

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P199182

Luminaire Tested: **XNV-AF-01-LED-U-SL2-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199182  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24257)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: XNV-AF-01-LED-U-SL2-8030  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4838 lumens  
Efficiency: N/A  
Efficacy: 83.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Semi-Cutoff  
BUG Rating: B1 - U0 - G1

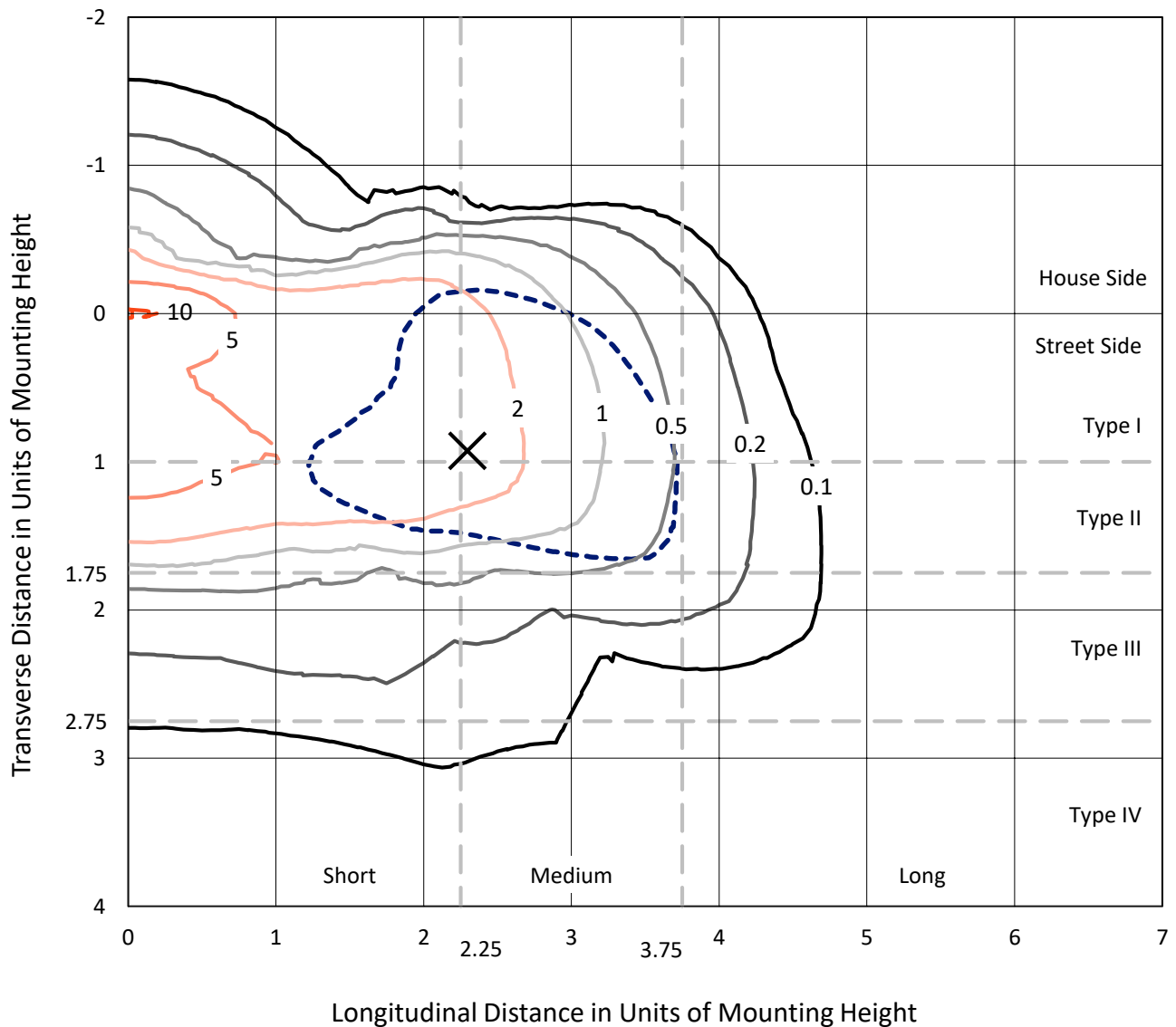
Input Watts (W): 58  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

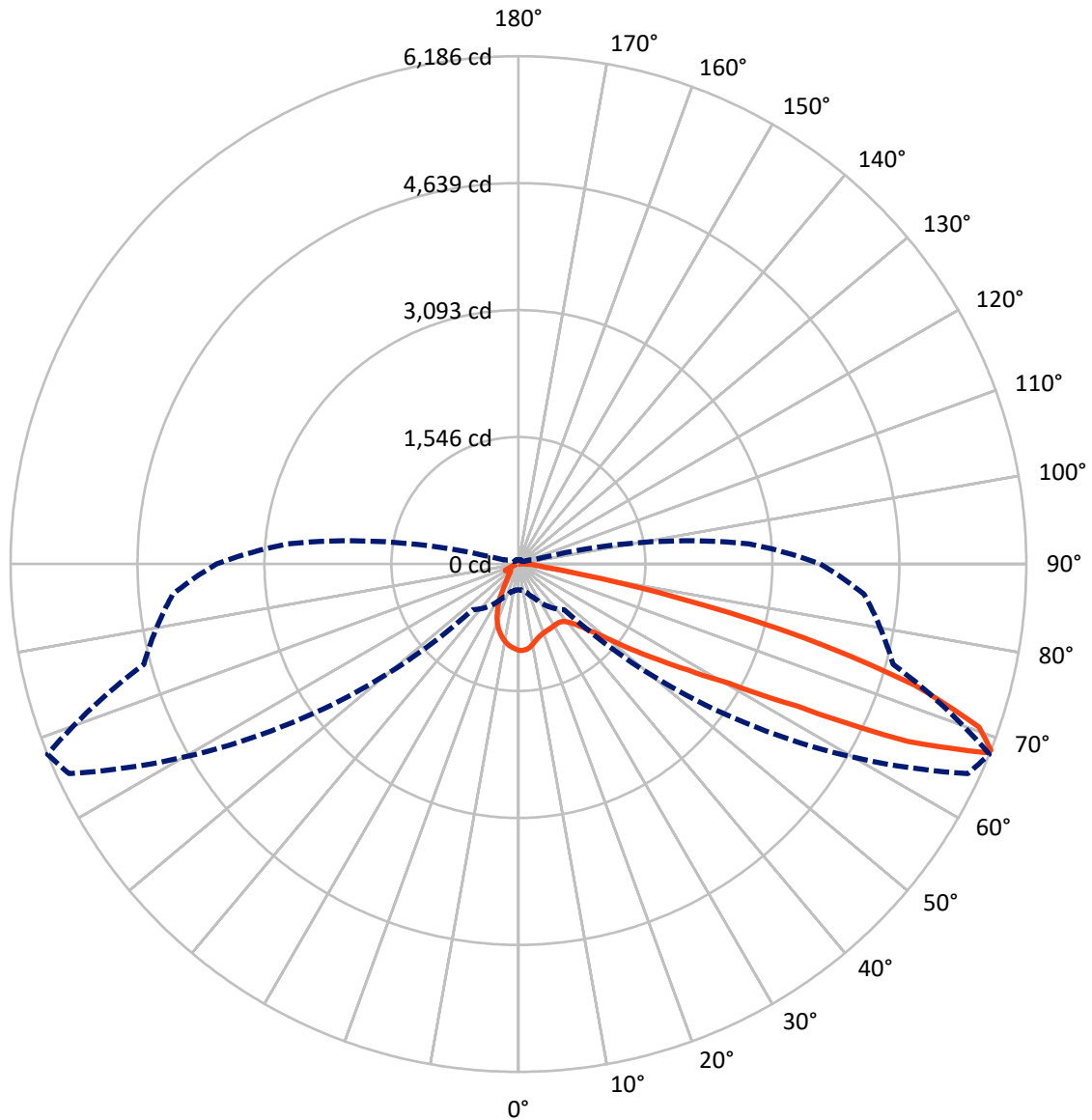
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.5 fc  
 Type II - Medium - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	791.5	0.0	791.5
	% Fixture	16.4	0.0	16.4
<b>Street Side</b>	Lumens	4046.5	0.0	4046.5
	% Fixture	83.6	0.0	83.6
<b>Total</b>	Lumens	4838.0	0.0	4838.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.2	1.9
10°-20°	209.2	4.3
20°-30°	282.9	5.8
30°-40°	398.9	8.2
40°-50°	656.0	13.6
50°-60°	1016.9	21.0
60°-70°	1318.4	27.3
70°-80°	756.6	15.6
80°-90°	108.9	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4838.0	100.0
0°-180°	4838.0	100.0

**Coefficient of Utilization**



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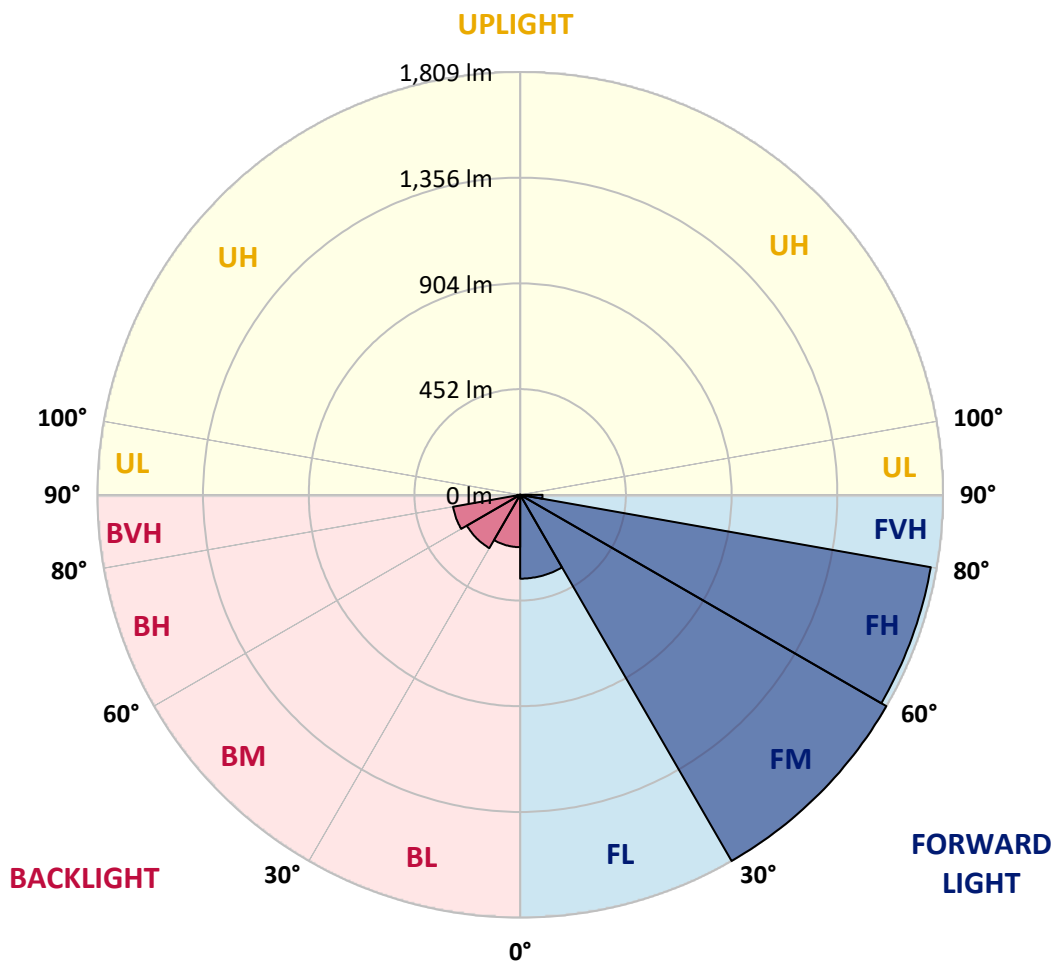
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	358.6	7.4			
FM	(30°-60°)	1808.5	37.4			
FH	(60°-80°)	1783.5	36.9			G1/1800
FVH	(80°-90°)	95.9	2.0			G1/100
BL	(0°-30°)	223.8	4.6	B1/500		
BM	(30°-60°)	263.3	5.4	B1/1000		
BH	(60°-80°)	291.5	6.0	B1/500		G1/500
BVH	(80°-90°)	13.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1052.7	1052.7	1052.7	1052.7	1052.7	1052.7	1052.7	1052.7	1052.7	1052.7	1052.7
2.5°	1024.6	1032.8	1032.8	1038.8	1044.2	1048.6	1052.4	1052.4	1052.4	1049.9	1047.6
5°	916.8	927.9	929.5	944.6	964.5	988.9	1016.0	1040.1	1044.8	1053.7	1057.1
7.5°	841.9	845.4	851.4	861.8	882.0	912.1	954.7	1008.5	1021.4	1049.2	1063.8
10°	788.8	791.7	796.7	807.1	825.5	852.7	894.7	964.5	986.0	1035.3	1064.1
12.5°	749.9	752.2	756.9	766.4	785.0	809.4	852.3	925.0	951.6	1021.4	1068.5
15°	719.6	723.4	727.2	736.4	755.3	778.7	822.3	896.3	925.0	1010.4	1076.7
17.5°	707.6	709.5	710.1	714.9	731.9	755.6	799.2	876.0	905.8	1001.5	1083.0
20°	715.2	715.5	709.2	706.0	715.8	737.6	780.0	860.9	891.2	993.6	1085.6
22.5°	748.4	748.4	731.9	718.0	711.4	725.0	767.0	850.4	883.3	987.6	1085.6
25°	811.6	808.7	783.1	755.6	726.2	720.6	758.8	843.8	877.3	984.4	1081.5
27.5°	894.7	892.2	859.6	818.8	765.7	730.0	756.0	838.4	871.3	979.7	1072.6
30°	995.8	993.6	956.6	903.2	824.8	760.1	762.6	834.6	866.6	971.8	1057.8
32.5°	1096.6	1095.4	1066.0	1011.3	906.4	810.9	780.0	834.0	864.0	962.3	1039.7
35°	1198.1	1198.1	1180.1	1133.9	1016.0	887.4	816.3	845.7	868.8	957.3	1024.3
37.5°	1347.9	1341.9	1308.4	1260.7	1154.2	986.7	875.1	870.4	887.1	965.8	1019.2
40°	1579.8	1562.5	1478.7	1398.4	1304.9	1113.7	961.1	918.1	928.2	994.9	1031.2
42.5°	1822.6	1795.1	1684.1	1555.8	1460.7	1270.5	1073.9	995.5	995.2	1051.1	1069.5
45°	2030.8	2016.6	1896.5	1733.8	1638.6	1446.8	1216.4	1110.5	1099.2	1138.4	1143.1
47.5°	2151.9	2142.4	2070.0	1922.1	1849.7	1655.1	1397.2	1270.1	1248.6	1272.0	1264.8
50°	2118.4	2127.5	2106.7	2031.1	2076.7	1947.7	1627.6	1488.8	1448.1	1471.4	1453.8
52.5°	1942.0	1966.7	1985.3	1999.9	2207.2	2339.3	1917.1	1761.9	1728.1	1724.0	1706.9
55°	1624.4	1663.6	1722.4	1829.2	2172.1	2653.7	2422.7	2092.1	2042.8	2016.9	2023.6
57.5°	1105.5	1164.9	1291.6	1494.8	1989.7	2787.7	3170.4	2518.8	2435.3	2343.1	2364.6
60°	609.0	658.6	809.4	1014.1	1573.5	2767.8	3833.2	3212.2	2949.5	2704.9	2749.2
62.5°	394.1	404.8	517.0	692.7	965.8	2443.6	4201.3	4371.1	3814.5	3182.1	3244.4
65°	316.7	324.2	379.2	558.7	672.8	1571.9	4217.8	5573.2	5206.3	3830.6	3832.5
67.5°	309.4	312.9	344.8	469.9	631.1	855.8	3645.8	6047.3	6132.3	4596.1	4226.0
68°	313.8	317.9	350.2	455.4	630.8	788.8	3369.5	6040.0	6185.7	4724.1	4226.0
70°	276.8	281.9	357.1	471.2	603.9	678.2	2307.4	5719.2	5953.7	5018.3	4009.8
72.5°	144.7	140.6	176.7	372.0	679.8	706.6	1218.9	4778.1	5051.8	4647.6	3464.4
75°	112.8	102.7	98.9	147.0	597.9	732.9	707.9	3396.1	3602.8	3350.3	2315.6
77.5°	106.2	93.9	86.6	86.9	263.3	762.6	572.7	1998.6	1998.6	1598.2	738.9
80°	85.3	74.0	69.2	79.0	127.0	702.9	597.6	910.8	776.8	413.1	203.5
82.5°	56.3	50.2	50.6	64.2	96.4	469.3	692.1	449.7	337.8	183.0	119.8
85°	35.7	30.7	34.1	44.9	72.1	209.2	685.2	312.6	223.8	102.7	59.7
87.5°	18.0	13.9	17.1	23.4	43.9	60.0	564.1	279.1	165.9	42.7	32.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1052.7	1052.7	1052.7	1052.7	1052.7	1052.7	1052.7	1052.7	1052.7	1052.7	1052.7
2.5°	1047.6	1040.7	1037.2	1031.5	1024.6	1017.6	1012.9	1010.7	1009.4	1010.0	1009.7
5°	1055.2	1046.1	1031.2	1010.0	988.2	965.2	947.5	933.9	925.3	922.8	922.2
7.5°	1060.9	1047.6	1019.8	981.3	944.0	903.5	869.1	841.6	822.9	814.4	814.1
10°	1060.0	1042.9	999.0	942.1	887.4	828.0	774.0	727.8	694.3	678.2	677.6
12.5°	1060.9	1037.5	973.4	896.3	817.9	732.9	652.6	580.9	530.9	507.2	506.3
15°	1064.7	1031.8	947.2	845.1	736.7	616.6	501.9	411.8	366.3	350.8	350.8
17.5°	1064.4	1022.4	916.8	785.7	640.3	479.4	342.6	287.0	282.5	296.8	299.0
20°	1058.1	1007.2	877.6	715.2	527.1	331.8	232.3	224.4	259.8	299.0	303.4
22.5°	1048.3	987.6	832.4	633.3	395.4	216.2	179.2	191.2	239.2	287.9	294.9
25°	1034.7	963.9	780.6	538.2	262.9	155.5	149.5	164.3	198.2	230.7	235.8
27.5°	1014.8	933.9	724.0	435.2	167.8	128.0	130.2	140.6	155.2	169.1	171.9
30°	989.8	898.8	662.4	321.1	127.4	114.4	118.2	124.5	130.8	139.7	141.6
32.5°	964.5	863.1	598.3	220.6	111.2	107.1	110.9	114.4	119.8	125.8	127.0
35°	941.8	829.9	532.2	153.9	104.3	102.4	104.3	106.5	111.9	117.9	118.5
37.5°	925.3	802.7	463.3	121.7	100.2	98.3	99.2	100.2	106.5	115.4	116.3
40°	923.1	784.7	393.5	109.3	97.0	94.5	93.9	94.5	102.7	112.8	113.8
42.5°	944.6	785.7	325.2	104.3	94.5	91.6	89.1	90.4	97.7	105.6	106.2
45°	995.5	807.8	266.1	102.1	92.3	90.1	86.3	86.9	90.4	94.5	95.1
47.5°	1085.3	856.1	220.9	100.8	90.4	88.5	83.7	81.9	82.2	84.4	84.4
50°	1228.7	937.0	193.4	99.6	88.8	85.3	80.0	76.2	75.2	76.5	76.8
52.5°	1442.7	1075.8	180.1	97.0	86.0	81.2	75.2	71.4	69.8	71.1	71.1
55°	1731.9	1297.3	173.8	93.5	82.5	76.2	70.8	67.6	66.4	67.3	67.3
57.5°	2061.5	1585.2	184.6	88.8	78.1	70.8	67.0	64.8	63.8	64.8	65.1
60°	2453.0	1961.9	258.5	82.8	73.3	66.1	63.8	62.6	61.9	62.9	62.9
62.5°	2973.6	2463.2	400.1	78.1	68.3	61.6	61.0	60.4	59.7	60.7	60.7
65°	3535.5	2919.2	411.8	75.2	63.8	57.8	58.2	58.2	57.5	58.5	58.5
67.5°	3714.3	2879.7	230.1	71.7	58.5	54.0	55.3	55.3	55.0	55.9	55.6
68°	3676.4	2817.1	200.4	70.8	57.5	53.1	54.4	54.7	54.4	55.3	55.0
70°	3393.9	2473.3	131.8	65.4	53.4	49.9	51.8	52.1	51.8	53.1	52.8
72.5°	2801.6	1855.1	97.3	57.2	48.4	45.8	47.7	48.0	48.4	49.6	49.3
75°	1779.3	1024.6	76.8	48.7	43.3	41.1	43.0	43.9	44.6	46.5	45.5
77.5°	487.3	311.0	62.3	41.4	37.3	36.3	37.6	38.9	39.5	41.7	40.1
80°	170.7	137.5	51.8	35.1	31.0	30.7	31.9	33.2	33.8	35.7	33.8
82.5°	103.7	89.8	41.4	27.5	24.3	24.0	25.6	26.9	27.5	27.5	26.2
85°	54.0	47.4	30.3	19.3	16.7	15.8	18.6	20.2	20.5	20.2	19.3
87.5°	30.3	26.9	16.1	9.2	7.6	7.9	9.8	12.0	13.0	12.6	12.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)