

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: P198874

Luminaire Tested: **XNV-AF-01-LED-U-SL3-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198874  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24262)  
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-SL3-7050-600  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3980 lumens  
Efficiency: N/A  
Efficacy: 117.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G1

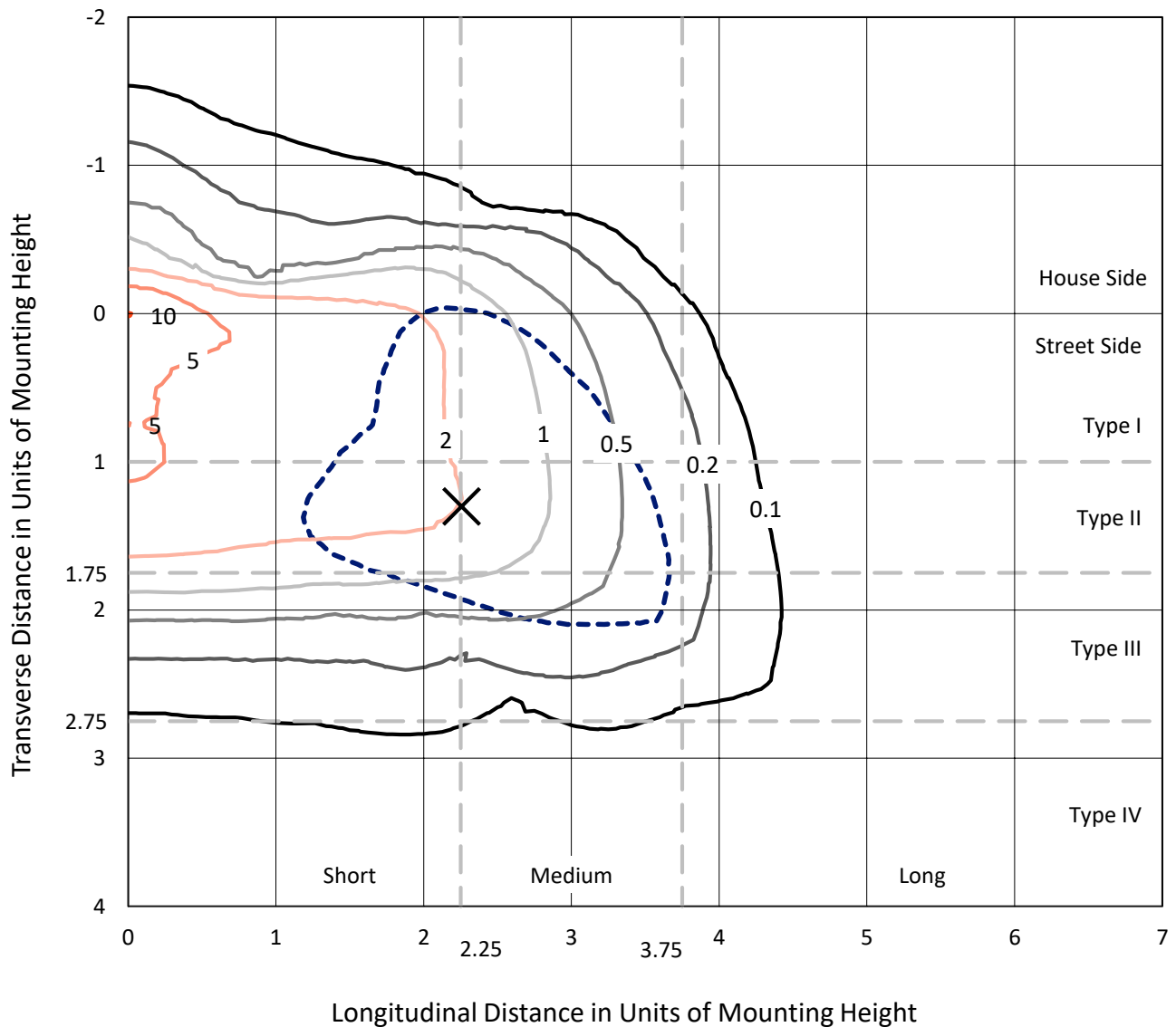
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

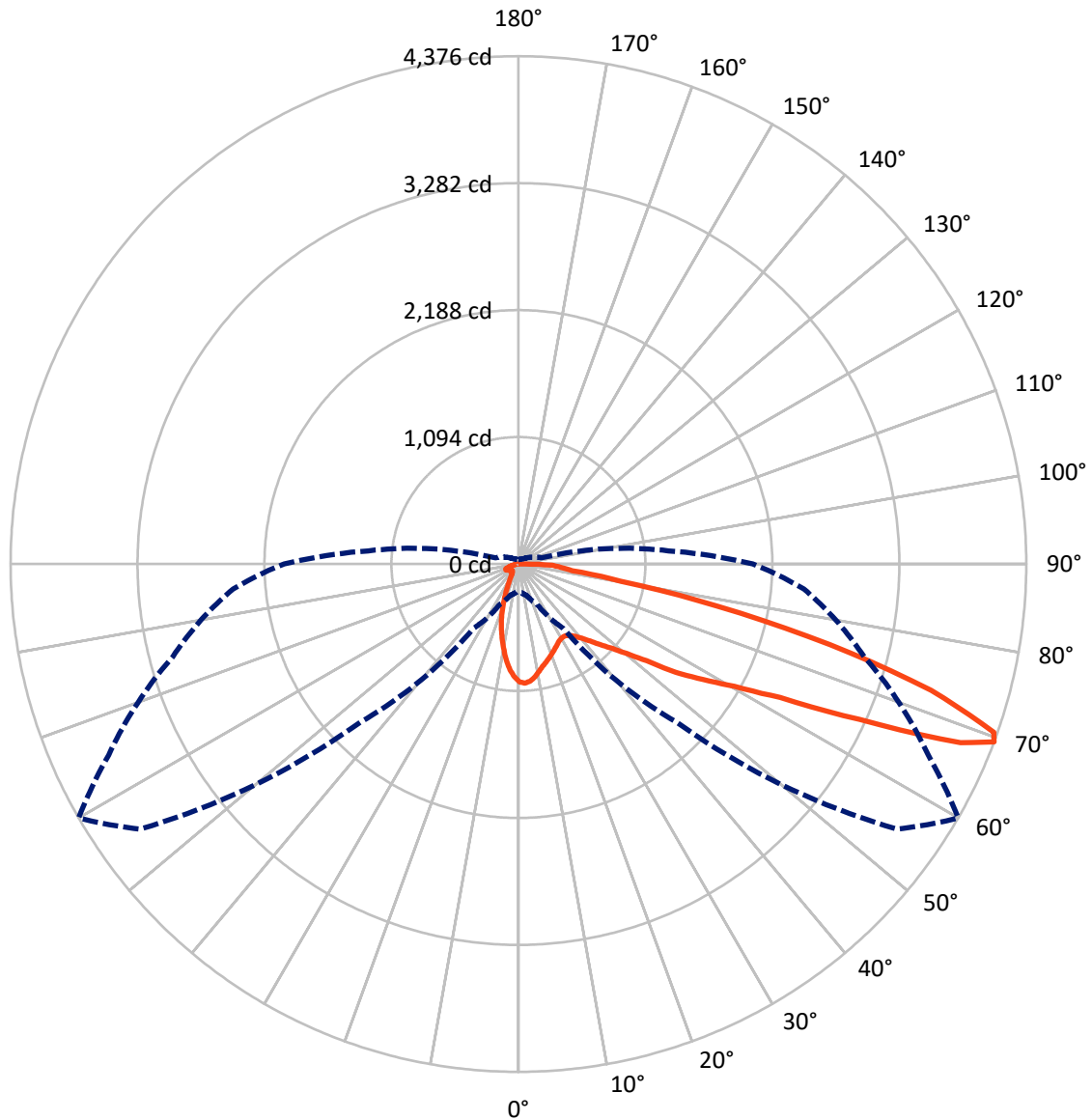
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.2 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	567.7	0.0	567.7
	% Fixture	14.3	0.0	14.3
<b>Street Side</b>	Lumens	3412.3	0.0	3412.3
	% Fixture	85.7	0.0	85.7
<b>Total</b>	Lumens	3980.0	0.0	3980.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.1	2.2
10°-20°	184.5	4.6
20°-30°	235.3	5.9
30°-40°	323.8	8.1
40°-50°	524.5	13.2
50°-60°	823.2	20.7
60°-70°	1097.5	27.6
70°-80°	610.4	15.3
80°-90°	94.7	2.4
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°	3980.0	100.0
0°-180°	3980.0	100.0

**Coefficient of Utilization**



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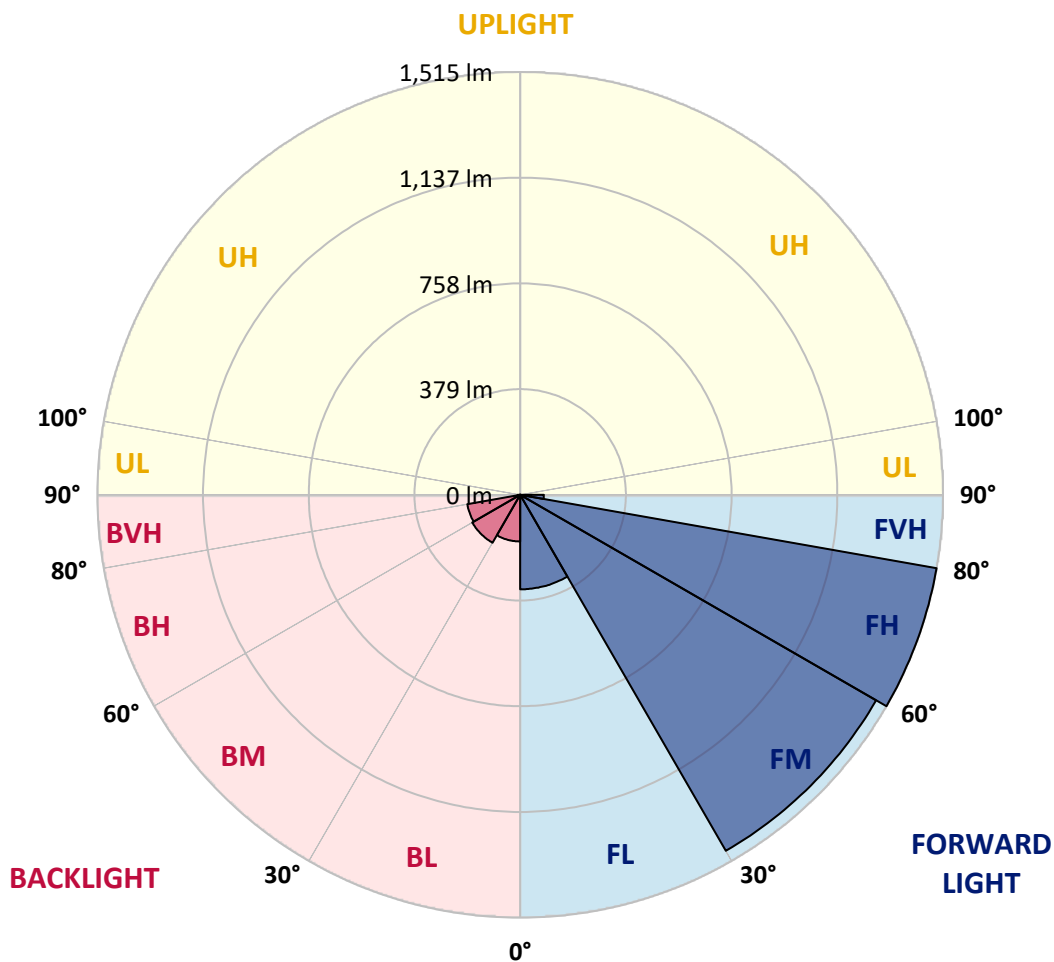
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	338.6	8.5			
FM	(30°-60°)	1473.2	37.0			
FH	(60°-80°)	1515.4	38.1			G1/1800
FVH	(80°-90°)	85.1	2.1			G1/100
BL	(0°-30°)	167.3	4.2	B1/500		
BM	(30°-60°)	198.3	5.0	B0/220		
BH	(60°-80°)	192.5	4.8	B1/500		G1/500
BVH	(80°-90°)	9.6	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

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

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5
2.5°	1042.6	1045.4	1045.4	1043.1	1041.8	1034.4	1030.1	1027.0	1021.6	1011.7	1002.7
5°	1005.3	1010.7	1013.0	1014.0	1020.6	1018.3	1018.6	1016.5	1011.9	1001.2	986.7
7.5°	936.9	937.9	942.0	948.9	965.0	976.2	985.4	987.2	986.2	978.2	957.8
10°	869.5	871.3	876.2	887.9	903.2	919.3	939.2	947.4	953.5	950.9	925.2
12.5°	813.6	813.9	819.2	832.8	849.9	870.0	897.1	909.8	924.4	930.3	901.4
15°	759.8	763.4	768.5	784.8	806.0	831.5	862.6	880.2	899.4	916.2	883.1
17.5°	718.9	721.8	724.8	738.3	762.8	794.7	833.3	852.2	877.4	903.2	864.2
20°	696.5	697.5	695.2	701.8	722.5	757.0	801.6	824.4	854.5	890.7	844.8
22.5°	691.9	691.9	683.5	682.2	691.4	720.5	769.0	796.8	833.5	882.0	827.4
25°	713.3	711.8	696.0	681.4	678.1	692.9	737.8	772.0	815.7	881.8	814.4
27.5°	753.9	751.9	732.2	707.7	686.5	680.2	713.8	748.8	801.6	890.5	807.8
30°	804.4	803.7	783.8	753.1	718.2	685.3	704.4	736.8	792.2	906.5	807.5
32.5°	859.8	856.3	844.0	813.4	767.9	713.6	710.0	737.3	789.6	930.0	813.4
35°	918.8	916.2	913.2	882.3	831.2	763.6	734.8	754.9	802.1	962.7	830.0
37.5°	993.8	991.0	996.1	962.4	906.5	829.2	776.6	790.2	827.7	1010.2	860.8
40°	1127.3	1119.1	1104.8	1053.0	994.3	909.6	837.1	839.2	871.3	1073.7	910.4
42.5°	1346.5	1320.2	1249.5	1154.3	1087.0	1003.0	916.0	906.3	931.5	1157.7	982.3
45°	1566.3	1536.7	1417.2	1264.9	1182.9	1103.3	1013.5	990.2	1006.6	1255.4	1075.0
47.5°	1708.2	1693.6	1558.9	1375.4	1283.5	1212.5	1125.0	1086.7	1098.5	1366.2	1189.3
50°	1749.8	1737.3	1631.3	1461.9	1378.4	1344.5	1263.1	1212.3	1214.3	1495.6	1326.4
52.5°	1718.6	1713.5	1643.3	1515.5	1465.7	1483.6	1454.2	1383.5	1366.7	1637.5	1474.9
55°	1677.0	1678.8	1651.8	1569.3	1554.5	1613.2	1704.3	1647.4	1576.0	1785.2	1629.6
57.5°	1546.1	1547.4	1618.3	1671.9	1724.0	1794.9	1899.1	1875.1	1791.9	1944.8	1802.9
60°	1244.9	1254.9	1412.9	1650.7	1917.7	2153.0	2178.5	2137.2	2021.6	2128.5	2028.2
62.5°	889.4	898.4	1081.4	1433.0	1895.0	2558.3	2694.6	2530.2	2333.2	2403.4	2345.2
65°	467.3	465.8	607.4	990.2	1596.1	2652.2	3507.7	3228.0	2858.2	2781.4	2651.5
67.5°	261.1	269.5	324.4	499.5	1040.3	2334.2	4027.1	4109.5	3588.1	3081.2	2638.2
69°	241.4	244.2	281.0	386.1	678.1	1925.9	3982.4	4375.7	3895.9	3082.5	2468.2
70°	234.5	237.6	271.0	355.8	569.6	1578.0	3819.8	4344.6	3970.7	3014.1	2313.5
72.5°	210.3	214.4	246.8	319.8	480.1	813.4	3076.9	3718.5	3596.8	2634.4	1793.9
75°	179.4	186.3	235.3	317.5	454.8	517.1	2051.9	2770.4	2677.0	1884.0	1017.8
77.5°	74.3	75.0	102.9	232.5	477.3	494.9	1102.8	1754.9	1553.5	826.1	306.5
80°	51.8	50.8	51.3	67.9	385.1	498.2	565.8	892.5	693.7	218.0	143.4
82.5°	43.6	43.1	45.2	42.6	130.4	565.3	473.2	465.3	326.7	117.4	68.4
85°	28.8	28.1	37.0	38.8	62.0	448.9	508.9	365.7	243.5	62.8	29.1
87.5°	14.0	14.3	21.2	26.3	32.9	142.2	487.5	289.2	188.1	27.3	11.7
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°	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5
2.5°	999.2	991.5	984.6	976.0	969.3	963.7	956.0	955.8	954.5	956.3	956.8
5°	977.0	964.2	944.8	923.1	907.8	887.6	868.0	861.4	854.0	853.2	855.5
7.5°	943.5	923.6	890.5	857.3	824.1	790.2	758.0	741.7	725.8	721.0	723.3
10°	906.3	881.0	830.2	776.1	729.4	678.9	629.9	598.2	569.4	557.1	560.2
12.5°	877.2	845.0	773.6	703.4	633.4	561.0	496.4	433.9	386.7	365.5	366.7
15°	852.2	811.1	720.5	627.1	539.5	440.2	350.7	278.2	236.8	221.5	221.0
17.5°	825.1	775.4	665.1	556.1	442.5	319.8	234.8	191.9	175.6	170.5	170.5
20°	796.3	738.6	607.2	478.8	340.5	223.3	176.6	160.0	153.9	152.4	152.1
22.5°	769.5	702.6	549.0	396.4	246.3	169.5	150.3	143.9	142.9	144.2	144.2
25°	748.3	671.0	490.0	309.6	179.2	141.9	133.7	133.0	136.8	141.4	142.2
27.5°	732.5	642.6	431.8	226.1	140.9	123.5	120.7	124.0	133.0	142.2	143.9
30°	721.5	618.4	362.2	162.6	117.4	108.2	109.5	115.4	128.9	142.9	146.7
32.5°	716.7	598.7	292.0	124.8	100.3	95.2	98.5	106.2	120.2	134.2	138.8
35°	721.2	584.4	227.1	103.6	87.8	84.0	87.8	95.7	104.9	111.8	114.6
37.5°	737.8	579.3	171.0	91.9	79.6	75.8	78.9	84.2	88.3	90.9	92.1
40°	772.8	584.7	134.0	85.8	75.0	70.7	71.5	74.0	76.8	78.9	79.1
42.5°	828.4	602.3	119.2	83.5	72.2	66.6	65.3	67.1	70.2	73.0	73.5
45°	902.4	631.7	117.7	84.2	71.0	63.3	60.7	62.5	66.6	71.2	72.0
47.5°	998.2	678.1	124.8	88.3	71.7	61.5	57.7	59.5	64.8	71.0	72.0
50°	1111.5	742.4	138.1	94.4	75.3	61.5	56.4	57.9	63.5	70.4	71.5
52.5°	1244.9	832.0	151.9	100.6	80.4	63.8	56.9	56.7	61.8	68.1	69.4
55°	1392.2	943.3	165.1	105.9	83.2	66.9	58.2	55.1	59.2	64.3	65.3
57.5°	1565.5	1095.6	188.4	111.0	84.7	69.2	59.7	53.6	55.9	59.5	60.2
60°	1800.6	1319.5	233.5	119.7	87.5	70.2	60.0	52.1	51.8	54.4	54.6
62.5°	2107.1	1581.6	276.7	129.9	93.2	70.4	59.0	51.0	48.5	49.3	49.3
65°	2325.0	1678.1	264.1	138.6	98.3	70.2	57.9	50.3	45.9	44.7	44.7
67.5°	2201.0	1482.3	224.3	140.9	98.8	67.4	55.6	48.5	43.6	40.6	40.6
69°	2018.8	1299.3	206.0	136.8	94.7	64.1	53.1	46.7	42.1	38.5	38.5
70°	1870.2	1160.7	194.7	131.9	89.8	61.3	50.8	44.9	40.6	37.5	37.3
72.5°	1396.3	774.6	166.4	113.8	73.8	51.8	44.4	40.1	36.5	34.5	34.5
75°	736.8	388.2	136.3	92.9	56.9	41.3	36.5	33.7	31.6	31.4	31.1
77.5°	241.4	175.6	98.0	69.9	41.9	32.2	29.1	27.3	27.1	28.1	28.1
80°	130.4	104.9	63.0	47.2	29.1	24.0	22.5	22.2	23.0	24.5	24.5
82.5°	63.3	51.8	37.5	29.1	19.9	17.6	17.6	17.9	18.9	20.7	20.7
85°	27.3	24.5	21.7	16.3	12.3	11.0	12.5	13.8	14.5	15.8	16.3
87.5°	13.0	11.5	10.0	6.4	5.4	5.6	6.6	8.2	9.7	10.7	11.0
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)