

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: P199196

Luminaire Tested: **XNV-AF-01-LED-U-SL3-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199196
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-SL3-8030-800
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 800mA 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: 3983 lumens
Efficiency: N/A
Efficacy: 90.5 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

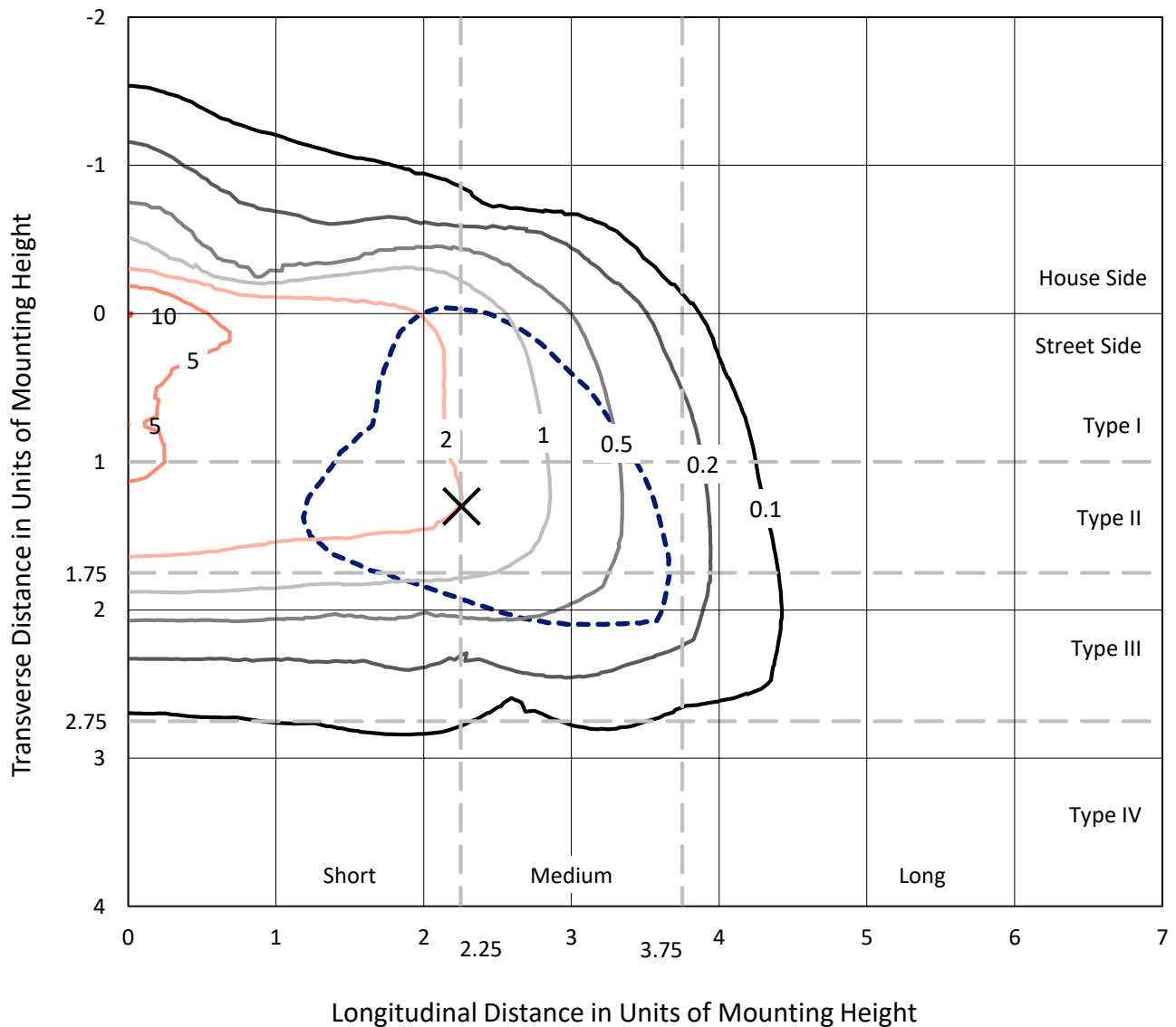
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

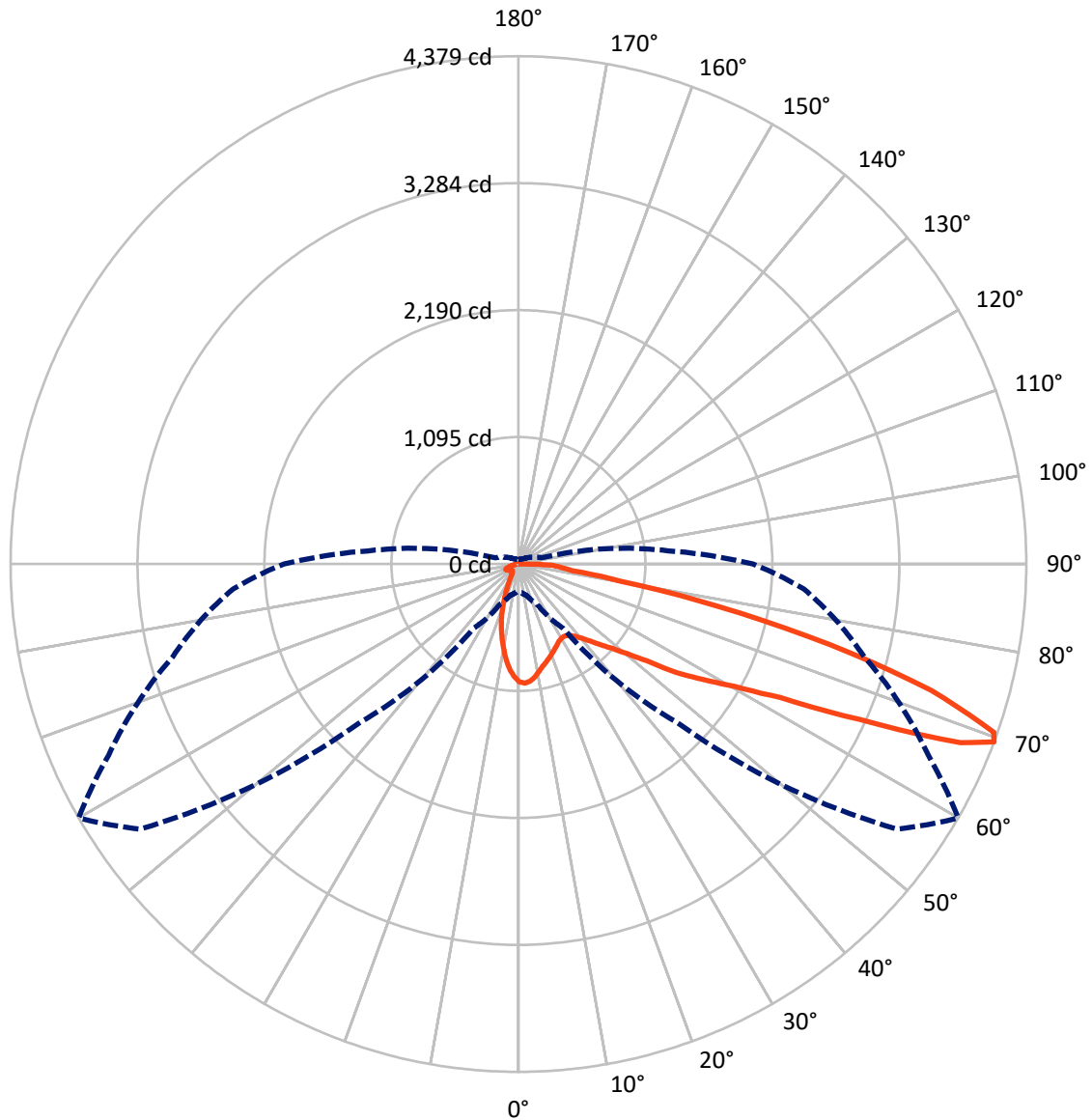
× Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	568.1	0.0	568.1
	% Fixture	14.3	0.0	14.3
Street Side	Lumens	3414.9	0.0	3414.9
	% Fixture	85.7	0.0	85.7
Total	Lumens	3983.0	0.0	3983.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.2	2.2
10°-20°	184.6	4.6
20°-30°	235.5	5.9
30°-40°	324.1	8.1
40°-50°	524.9	13.2
50°-60°	823.8	20.7
60°-70°	1098.3	27.6
70°-80°	610.9	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°	3983.0	100.0
0°-180°	3983.0	100.0

Coefficient of Utilization



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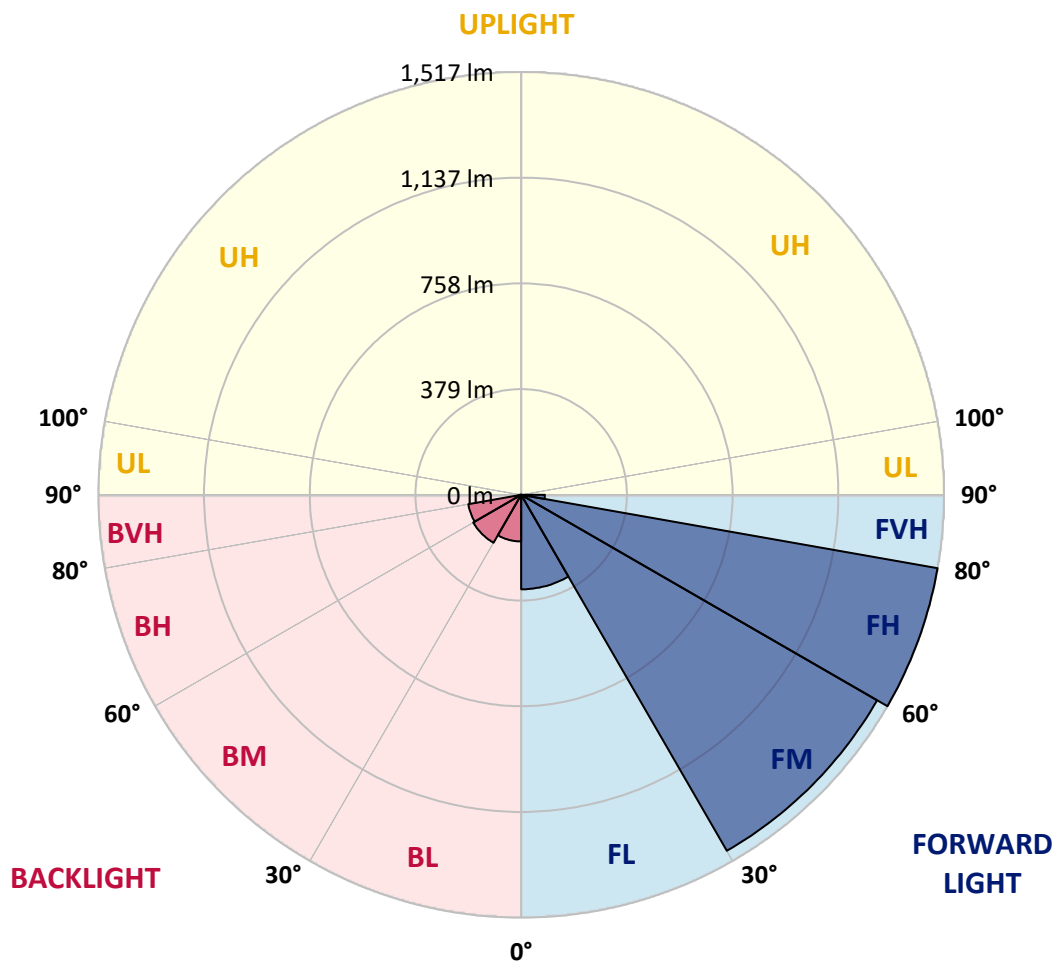
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	338.9	8.5			
FM	(30°-60°)	1474.3	37.0			
FH	(60°-80°)	1516.6	38.1			G1/1800
FVH	(80°-90°)	85.1	2.1			G1/100
BL	(0°-30°)	167.4	4.2	B1/500		
BM	(30°-60°)	198.5	5.0	B0/220		
BH	(60°-80°)	192.6	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°	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3
2.5°	1043.3	1046.2	1046.2	1043.9	1042.6	1035.2	1030.8	1027.8	1022.4	1012.4	1003.5
5°	1006.1	1011.4	1013.7	1014.7	1021.4	1019.1	1019.3	1017.3	1012.7	1002.0	987.4
7.5°	937.6	938.6	942.7	949.6	965.7	976.9	986.1	987.9	986.9	979.0	958.6
10°	870.2	872.0	876.8	888.6	903.9	920.0	939.9	948.1	954.2	951.7	925.9
12.5°	814.2	814.5	819.9	833.4	850.5	870.7	897.8	910.5	925.1	931.0	902.1
15°	760.4	763.9	769.0	785.4	806.6	832.1	863.3	880.9	900.1	916.9	883.7
17.5°	719.5	722.3	725.4	738.9	763.4	795.3	833.9	852.8	878.1	903.9	864.8
20°	697.0	698.0	695.7	702.4	723.1	757.5	802.2	825.0	855.1	891.4	845.4
22.5°	692.4	692.4	684.0	682.7	691.9	721.0	769.5	797.4	834.2	882.7	828.0
25°	713.9	712.3	696.5	681.9	678.6	693.4	738.4	772.6	816.3	882.4	815.0
27.5°	754.5	752.4	732.8	708.3	687.1	680.7	714.4	749.4	802.2	891.1	808.4
30°	805.1	804.3	784.4	753.7	718.7	685.8	704.9	737.4	792.8	907.2	808.1
32.5°	860.5	856.9	844.6	814.0	768.5	714.1	710.5	737.9	790.2	930.7	814.0
35°	919.5	916.9	913.9	883.0	831.9	764.2	735.3	755.5	802.8	963.4	830.6
37.5°	994.6	991.8	996.9	963.1	907.2	829.8	777.2	790.7	828.3	1010.9	861.5
40°	1128.1	1120.0	1105.7	1053.8	995.1	910.3	837.7	839.8	872.0	1074.5	911.0
42.5°	1347.5	1321.2	1250.5	1155.2	1087.8	1003.8	916.7	907.0	932.2	1158.5	983.1
45°	1567.4	1537.8	1418.3	1265.8	1183.8	1104.1	1014.2	991.0	1007.3	1256.4	1075.8
47.5°	1709.5	1694.9	1560.0	1376.4	1284.5	1213.5	1125.8	1087.5	1099.3	1367.2	1190.2
50°	1751.1	1738.6	1632.6	1463.0	1379.5	1345.5	1264.0	1213.2	1215.2	1496.7	1327.4
52.5°	1719.9	1714.8	1644.6	1516.6	1466.8	1484.7	1455.3	1384.6	1367.7	1638.7	1476.0
55°	1678.3	1680.1	1653.0	1570.5	1555.7	1614.4	1705.6	1648.7	1577.2	1786.6	1630.8
57.5°	1547.3	1548.5	1619.6	1673.2	1725.3	1796.3	1900.5	1876.5	1793.2	1946.2	1804.2
60°	1245.9	1255.8	1413.9	1652.0	1919.1	2154.6	2180.2	2138.8	2023.1	2130.1	2029.7
62.5°	890.1	899.0	1082.2	1434.1	1896.4	2560.2	2696.6	2532.1	2335.0	2405.2	2347.0
65°	467.7	466.1	607.9	991.0	1597.3	2654.2	3510.4	3230.4	2860.3	2783.5	2653.5
67.5°	261.3	269.7	324.6	499.8	1041.0	2336.0	4030.1	4112.6	3590.8	3083.6	2640.2
69°	241.6	244.4	281.2	386.4	678.6	1927.3	3985.4	4379.0	3898.8	3084.8	2470.1
70°	234.7	237.8	271.2	356.0	570.1	1579.2	3822.7	4347.8	3973.7	3016.4	2315.3
72.5°	210.5	214.5	247.0	320.0	480.4	814.0	3079.2	3721.3	3599.5	2636.3	1795.3
75°	179.6	186.4	235.5	317.7	455.1	517.5	2053.5	2772.5	2679.0	1885.4	1018.6
77.5°	74.3	75.1	102.9	232.7	477.6	495.2	1103.6	1756.2	1554.7	826.8	306.7
80°	51.8	50.8	51.3	67.9	385.4	498.6	566.2	893.2	694.2	218.1	143.5
82.5°	43.7	43.2	45.2	42.7	130.5	565.7	473.5	465.6	326.9	117.5	68.4
85°	28.9	28.1	37.0	38.8	62.1	449.3	509.3	366.0	243.7	62.8	29.1
87.5°	14.0	14.3	21.2	26.3	32.9	142.3	487.8	289.4	188.2	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°	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3
2.5°	999.9	992.3	985.4	976.7	970.0	964.4	956.8	956.5	955.2	957.0	957.5
5°	977.7	964.9	945.5	923.8	908.5	888.3	868.6	862.0	854.6	853.8	856.1
7.5°	944.2	924.3	891.1	857.9	824.7	790.7	758.6	742.2	726.4	721.5	723.8
10°	907.0	881.7	830.8	776.7	730.0	679.4	630.4	598.7	569.8	557.6	560.6
12.5°	877.8	845.7	774.1	703.9	633.9	561.4	496.8	434.2	386.9	365.7	367.0
15°	852.8	811.7	721.0	627.5	539.9	440.6	350.9	278.4	237.0	221.7	221.2
17.5°	825.7	775.9	665.6	556.5	442.9	320.0	235.0	192.1	175.7	170.6	170.6
20°	796.9	739.2	607.6	479.1	340.7	223.5	176.7	160.1	154.0	152.5	152.2
22.5°	770.1	703.1	549.4	396.7	246.5	169.6	150.4	144.1	143.0	144.3	144.3
25°	748.9	671.5	490.4	309.8	179.3	142.0	133.8	133.1	136.9	141.5	142.3
27.5°	733.0	643.1	432.2	226.3	141.0	123.6	120.8	124.1	133.1	142.3	144.1
30°	722.0	618.9	362.4	162.7	117.5	108.3	109.6	115.4	129.0	143.0	146.9
32.5°	717.2	599.2	292.2	124.9	100.4	95.3	98.6	106.3	120.3	134.3	138.9
35°	721.8	584.9	227.3	103.7	87.9	84.0	87.9	95.8	105.0	111.9	114.7
37.5°	738.4	579.8	171.1	91.9	79.7	75.9	78.9	84.3	88.4	90.9	92.2
40°	773.4	585.1	134.1	85.8	75.1	70.7	71.5	74.1	76.9	78.9	79.2
42.5°	829.1	602.8	119.3	83.5	72.3	66.7	65.4	67.2	70.2	73.0	73.6
45°	903.1	632.1	117.7	84.3	71.0	63.3	60.8	62.6	66.7	71.3	72.0
47.5°	998.9	678.6	124.9	88.4	71.8	61.6	57.7	59.5	64.9	71.0	72.0
50°	1112.3	743.0	138.2	94.5	75.3	61.6	56.4	58.0	63.6	70.5	71.5
52.5°	1245.9	832.6	152.0	100.6	80.5	63.9	57.0	56.7	61.8	68.2	69.5
55°	1393.3	944.0	165.3	106.0	83.3	66.9	58.2	55.2	59.3	64.4	65.4
57.5°	1566.7	1096.5	188.5	111.1	84.8	69.2	59.8	53.6	55.9	59.5	60.3
60°	1801.9	1320.5	233.7	119.8	87.6	70.2	60.0	52.1	51.8	54.4	54.7
62.5°	2108.7	1582.8	276.9	130.0	93.2	70.5	59.0	51.1	48.5	49.3	49.3
65°	2326.8	1679.3	264.3	138.7	98.3	70.2	58.0	50.3	46.0	44.7	44.7
67.5°	2202.7	1483.4	224.5	141.0	98.8	67.4	55.7	48.5	43.7	40.6	40.6
69°	2020.3	1300.3	206.1	136.9	94.8	64.1	53.1	46.7	42.1	38.6	38.6
70°	1871.6	1161.6	194.9	132.0	89.9	61.3	50.8	45.0	40.6	37.5	37.3
72.5°	1397.3	775.2	166.5	113.9	73.8	51.8	44.4	40.1	36.5	34.5	34.5
75°	737.4	388.5	136.4	93.0	57.0	41.4	36.5	33.7	31.7	31.4	31.2
77.5°	241.6	175.7	98.1	70.0	41.9	32.2	29.1	27.3	27.1	28.1	28.1
80°	130.5	105.0	63.1	47.3	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	14.6	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)