

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: P199192

Luminaire Tested: **XNV-AF-01-LED-U-SL3-8030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199192
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24263)
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-SL3-8030-1200-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4596 lumens
Efficiency: N/A
Efficacy: 69.6 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 - G2

Input Watts (W): 66
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

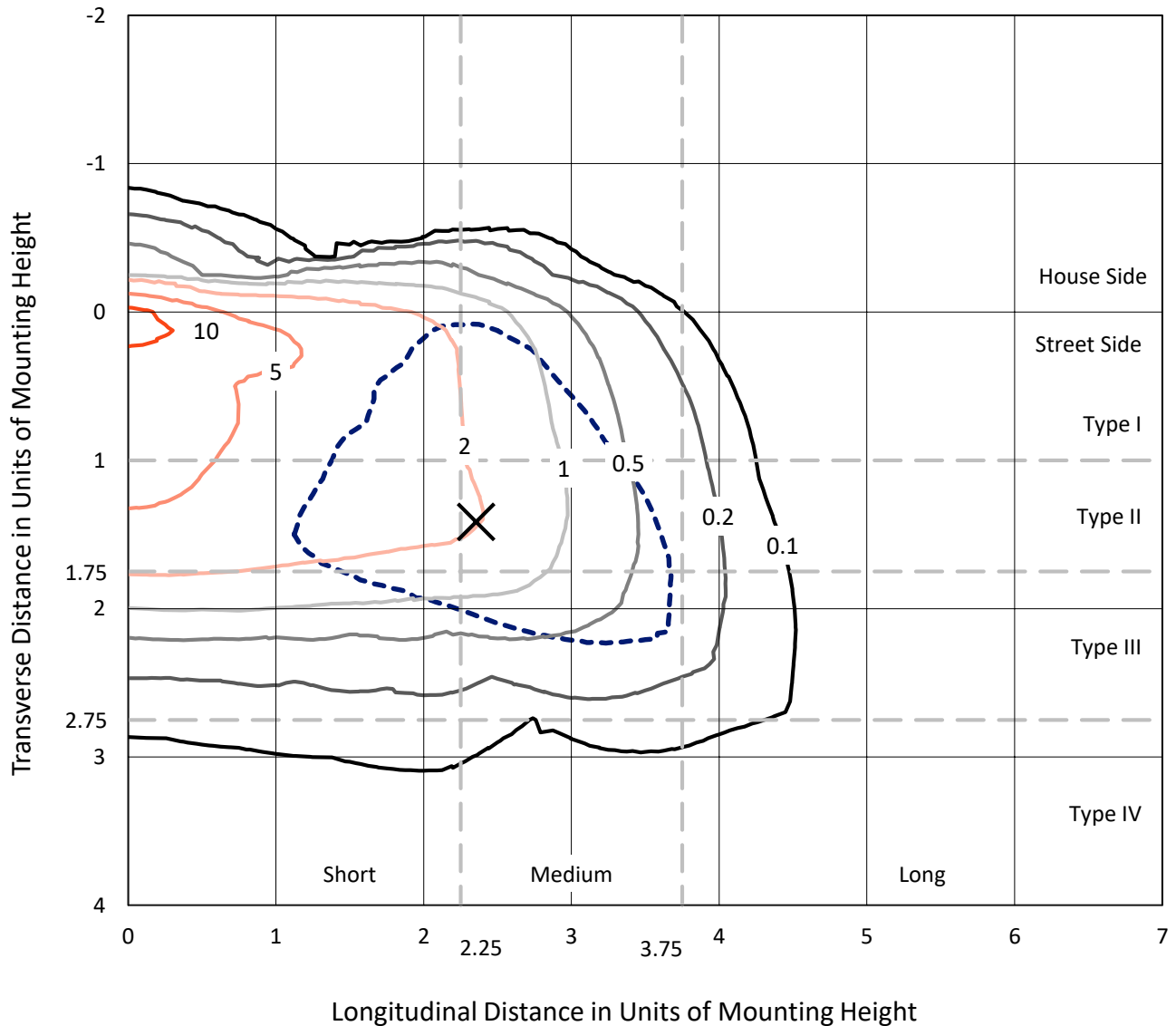


REPORT NUMBER: P199192

CATALOG NUMBER: XNV-AF-01-LED-U-SL3-8030-1200-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

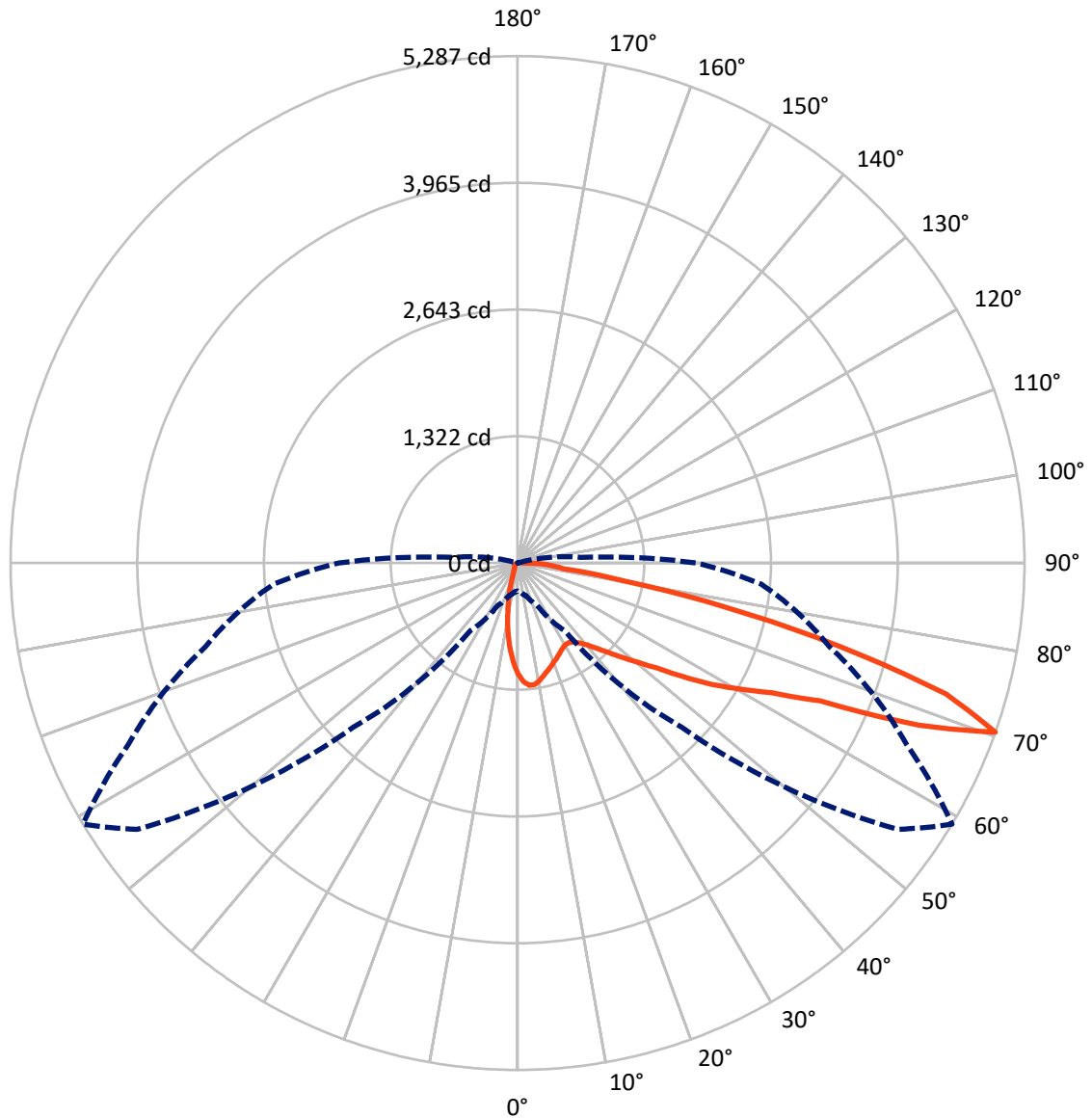


Based on 10 foot mounting height. Maximum calculated value = 12.4 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P199192

CATALOG NUMBER: XNV-AF-01-LED-U-SL3-8030-1200-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P199192

CATALOG NUMBER: XNV-AF-01-LED-U-SL3-8030-1200-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	353.3	0.0	353.3
	% Fixture	7.7	0.0	7.7
Street Side	Lumens	4242.7	0.0	4242.7
	% Fixture	92.3	0.0	92.3
Total	Lumens	4596.0	0.0	4596.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.6	2.1
10°-20°	200.4	4.4
20°-30°	271.3	5.9
30°-40°	391.6	8.5
40°-50°	650.3	14.1
50°-60°	994.7	21.6
60°-70°	1237.2	26.9
70°-80°	683.9	14.9
80°-90°	70.9	1.5
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°	4596.0	100.0
0°-180°	4596.0	100.0



REPORT NUMBER: P199192

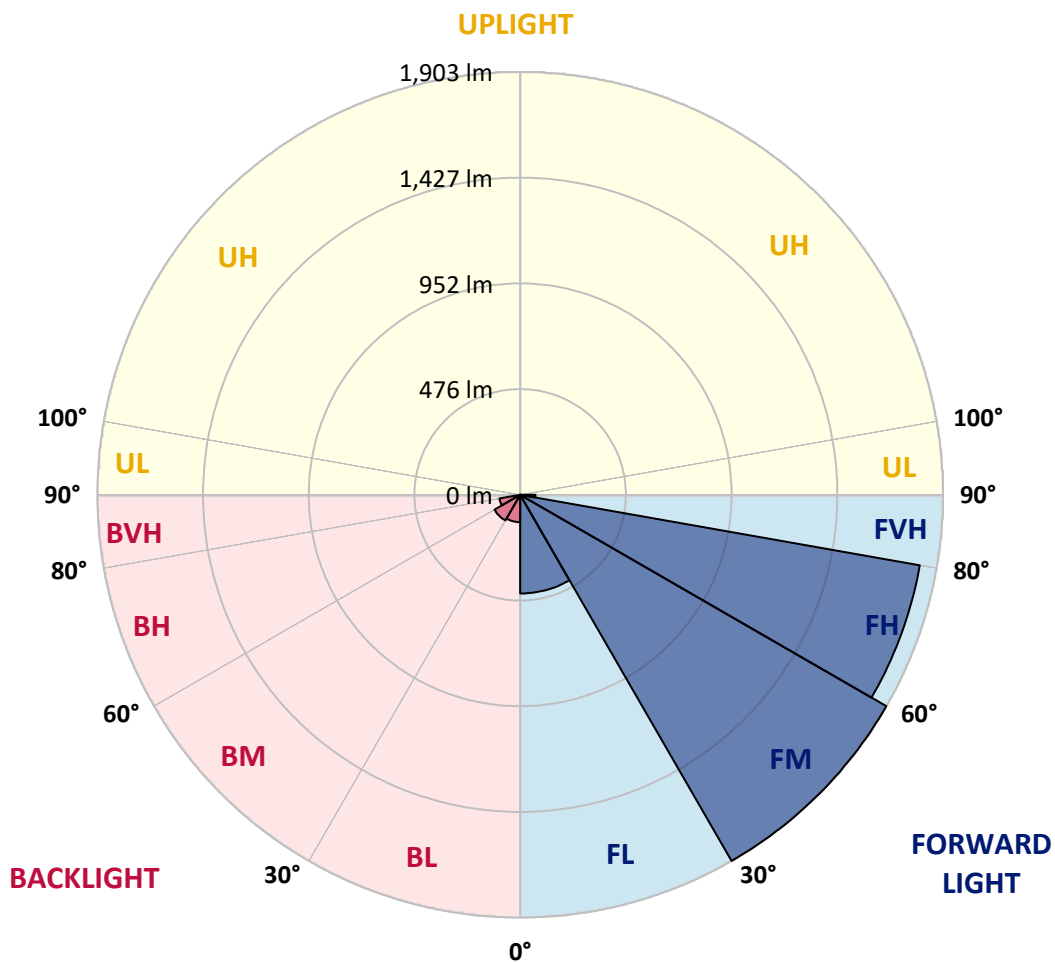
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	444.2	9.7			
FM	(30°-60°)	1903.2	41.4			
FH	(60°-80°)	1826.4	39.7			G2/5000
FVH	(80°-90°)	68.9	1.5			G1/100
BL	(0°-30°)	123.1	2.7	B1/500		
BM	(30°-60°)	133.4	2.9	B0/220		
BH	(60°-80°)	94.8	2.1	B0/110		G0/110
BVH	(80°-90°)	2.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





REPORT NUMBER: P199192

CATALOG NUMBER: XNV-AF-01-LED-U-SL3-8030-1200-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1162.2	1162.2	1162.2	1162.2	1162.2	1162.2	1162.2	1162.2	1162.2	1162.2	1162.2
2.5°	1313.7	1311.6	1302.9	1301.2	1291.5	1272.1	1249.5	1240.5	1222.1	1193.0	1160.8
5°	1335.5	1336.6	1337.3	1333.4	1332.0	1316.1	1291.1	1280.4	1255.8	1207.9	1149.0
7.5°	1253.7	1256.5	1265.1	1268.9	1285.6	1291.8	1286.6	1279.7	1260.3	1203.8	1120.9
10°	1167.4	1172.6	1181.9	1188.2	1208.6	1225.3	1246.4	1248.1	1244.0	1189.9	1089.4
12.5°	1093.2	1098.0	1108.4	1120.9	1141.7	1163.2	1194.8	1205.8	1219.7	1180.9	1066.8
15°	1029.4	1030.8	1040.8	1056.4	1083.8	1113.3	1150.7	1167.0	1194.1	1177.4	1049.5
17.5°	973.6	973.9	980.5	994.7	1028.0	1066.8	1110.5	1132.0	1166.3	1172.6	1034.2
20°	936.8	936.5	936.8	944.4	973.9	1020.0	1073.1	1095.6	1139.6	1166.7	1018.6
22.5°	924.3	922.6	914.6	911.8	930.6	971.1	1034.6	1064.0	1115.7	1164.9	1007.2
25°	939.6	938.5	921.5	905.6	907.3	932.6	995.4	1031.5	1097.0	1171.2	1004.4
27.5°	988.8	986.7	960.7	929.5	909.8	914.3	966.3	1004.1	1082.1	1186.4	1008.2
30°	1053.3	1053.6	1025.9	988.1	941.7	916.0	950.7	986.4	1072.0	1209.3	1016.5
32.5°	1125.1	1124.7	1105.0	1061.3	1002.0	947.9	957.6	987.8	1073.4	1242.9	1032.5
35°	1199.3	1195.4	1188.9	1150.4	1081.0	1003.7	989.2	1011.3	1088.0	1287.3	1059.5
37.5°	1284.9	1283.5	1290.1	1249.5	1178.8	1085.9	1044.6	1059.5	1124.7	1352.9	1103.2
40°	1421.2	1413.5	1416.6	1361.5	1289.1	1196.5	1122.3	1126.1	1183.3	1439.5	1172.2
42.5°	1680.8	1650.0	1592.1	1488.8	1410.4	1319.2	1223.9	1217.3	1266.2	1544.6	1263.1
45°	1991.1	1955.8	1809.8	1629.2	1531.8	1451.0	1349.4	1331.7	1368.1	1669.7	1380.2
47.5°	2250.1	2212.0	2018.5	1775.8	1655.2	1586.9	1488.4	1467.6	1490.1	1815.0	1521.0
50°	2338.5	2317.4	2147.5	1897.9	1779.6	1739.4	1662.8	1628.1	1633.7	1971.7	1685.3
52.5°	2298.0	2290.7	2177.0	1981.4	1894.8	1907.9	1853.8	1817.4	1811.2	2143.0	1867.0
55°	2212.3	2208.9	2153.4	2027.9	1996.3	2062.2	2121.8	2090.3	2031.4	2325.0	2017.1
57.5°	2090.0	2103.1	2143.0	2117.3	2121.2	2225.2	2370.8	2387.1	2299.0	2469.9	2128.4
60°	1763.0	1798.4	1981.1	2213.4	2391.2	2496.3	2637.4	2667.9	2525.8	2569.1	2257.1
62.5°	1303.3	1353.9	1614.3	2041.1	2540.0	3011.8	2992.1	2978.6	2742.1	2701.9	2491.1
65°	765.5	824.8	1045.0	1594.9	2315.7	3343.3	3654.3	3467.1	3071.8	2977.9	2863.8
67.5°	381.4	381.7	481.2	841.8	1711.3	3112.0	4620.9	4512.7	3772.9	3384.6	3010.8
70°	293.3	301.3	356.1	489.2	865.4	2423.8	4842.5	5286.6	4477.4	3366.5	2554.5
72.5°	248.6	253.8	316.9	425.8	647.0	1330.7	4192.0	4672.9	4272.5	2844.4	1883.0
75°	178.9	183.1	280.5	386.2	595.6	660.1	2875.6	3465.7	3205.7	2000.8	1036.3
77.5°	44.4	44.0	97.8	313.4	532.9	549.9	1650.0	2222.4	1839.3	819.3	266.3
80°	19.8	19.1	22.2	65.9	495.8	519.0	725.7	1122.3	705.5	132.8	81.5
82.5°	13.9	13.2	13.9	24.3	165.7	481.6	438.6	486.4	258.3	45.4	34.7
85°	4.5	4.2	7.6	20.5	46.5	277.7	427.8	363.3	192.1	19.4	23.2
87.5°	0.7	0.7	2.8	11.1	13.5	92.6	251.0	251.7	86.3	11.4	10.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P199192

CATALOG NUMBER: XNV-AF-01-LED-U-SL3-8030-1200-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1162.2	1162.2	1162.2	1162.2	1162.2	1162.2	1162.2	1162.2	1162.2	1162.2	1162.2
2.5°	1144.5	1124.0	1095.2	1066.5	1040.5	1013.8	992.3	982.2	977.7	971.5	958.0
5°	1118.1	1081.0	1017.9	955.9	898.0	842.5	795.0	768.0	738.8	737.4	723.2
7.5°	1075.8	1023.1	923.6	827.2	738.8	654.2	581.4	534.3	502.0	481.9	468.1
10°	1028.7	961.1	829.3	693.8	573.5	460.4	366.8	305.8	268.7	250.0	239.2
12.5°	991.2	906.3	736.4	565.8	415.0	285.3	198.3	153.9	134.2	126.5	123.1
15°	959.0	856.0	649.4	451.4	277.0	164.0	114.8	100.2	97.1	97.1	96.7
17.5°	926.4	807.5	564.8	339.1	174.4	107.5	90.5	88.4	88.8	89.8	89.8
20°	895.5	761.4	483.3	241.7	114.4	86.0	82.2	81.5	82.5	83.9	83.6
22.5°	870.6	720.8	407.0	166.1	88.1	78.0	75.6	74.5	75.2	76.3	75.9
25°	852.9	686.1	337.0	115.8	76.6	71.1	68.3	66.9	66.2	66.9	66.6
27.5°	842.2	657.0	271.1	87.0	68.6	64.1	60.7	57.9	56.2	56.2	55.5
30°	835.2	629.6	212.5	72.1	62.1	57.2	52.4	48.5	45.8	45.1	44.7
32.5°	834.9	606.0	158.8	63.8	55.8	50.3	44.4	39.5	36.4	35.7	35.4
35°	843.5	587.0	116.8	57.6	50.3	43.7	37.1	31.9	29.1	29.1	28.8
37.5°	866.1	575.9	88.4	52.7	45.8	38.1	31.2	26.3	23.9	24.6	24.6
40°	908.0	573.8	72.1	48.9	42.0	33.3	25.3	21.5	20.5	21.5	21.5
42.5°	972.2	584.9	64.1	46.1	38.5	28.4	21.1	18.4	18.0	19.1	19.1
45°	1055.7	606.7	59.6	43.7	34.7	23.6	17.7	15.9	15.6	17.0	17.0
47.5°	1157.0	636.2	55.5	40.9	30.9	19.4	14.9	13.5	13.5	14.9	15.3
50°	1276.9	676.1	51.3	38.1	27.7	16.3	12.5	11.4	11.8	13.2	13.5
52.5°	1414.9	725.0	47.5	35.7	24.3	13.2	10.4	9.7	10.1	11.4	11.8
55°	1533.8	767.6	43.0	33.3	19.8	10.7	8.7	8.3	8.7	10.4	10.4
57.5°	1637.5	808.5	38.8	29.5	15.6	8.7	6.9	6.9	7.6	9.4	9.7
60°	1775.1	873.0	35.4	25.0	11.8	6.6	5.5	5.9	6.9	8.3	8.7
62.5°	2018.9	982.6	30.9	20.8	8.7	5.2	4.5	4.9	6.2	8.0	8.3
65°	2324.0	1086.2	25.7	17.3	6.6	3.8	3.5	4.5	6.2	8.0	8.3
67.5°	2292.8	944.8	20.1	13.9	4.9	3.1	2.8	4.2	5.9	8.0	8.3
70°	1859.4	662.2	14.9	9.4	3.8	2.8	2.8	4.2	5.9	7.6	8.0
72.5°	1289.8	368.5	11.4	6.2	3.5	2.8	2.4	3.8	5.5	7.6	8.0
75°	613.7	113.0	9.0	4.5	3.1	2.4	2.1	3.8	5.5	7.6	8.0
77.5°	117.9	28.8	7.3	3.8	2.8	2.4	2.1	3.5	5.5	7.3	7.6
80°	39.9	12.8	5.9	3.5	2.8	2.4	2.1	3.5	5.2	6.9	7.3
82.5°	21.8	7.3	5.2	3.1	2.8	2.1	1.7	3.1	4.9	6.9	7.3
85°	17.0	5.2	4.2	3.1	2.8	2.1	1.7	3.1	4.9	6.6	6.9
87.5°	8.7	3.8	3.5	3.1	2.8	2.1	1.7	2.8	4.5	6.2	6.9
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)