

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: McGRAW-EDISON

Report Number: P193570

Luminaire Tested: **GLEON-AF-02-LED-E1-SL2-8030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193570
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-SL2-8030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5423 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-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: 25 FT

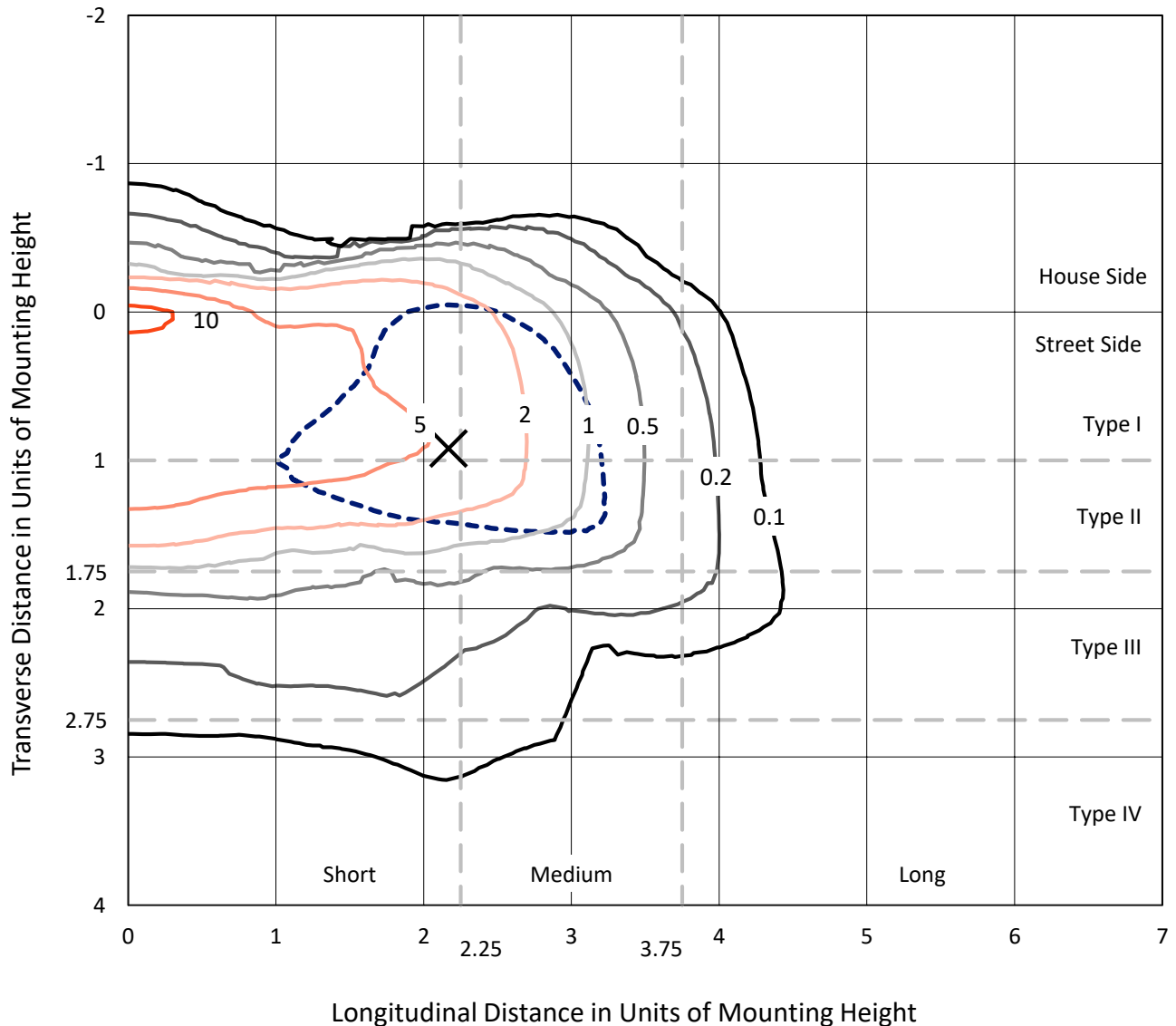


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Iso-Footcandle Lines of Horizontal Illumination

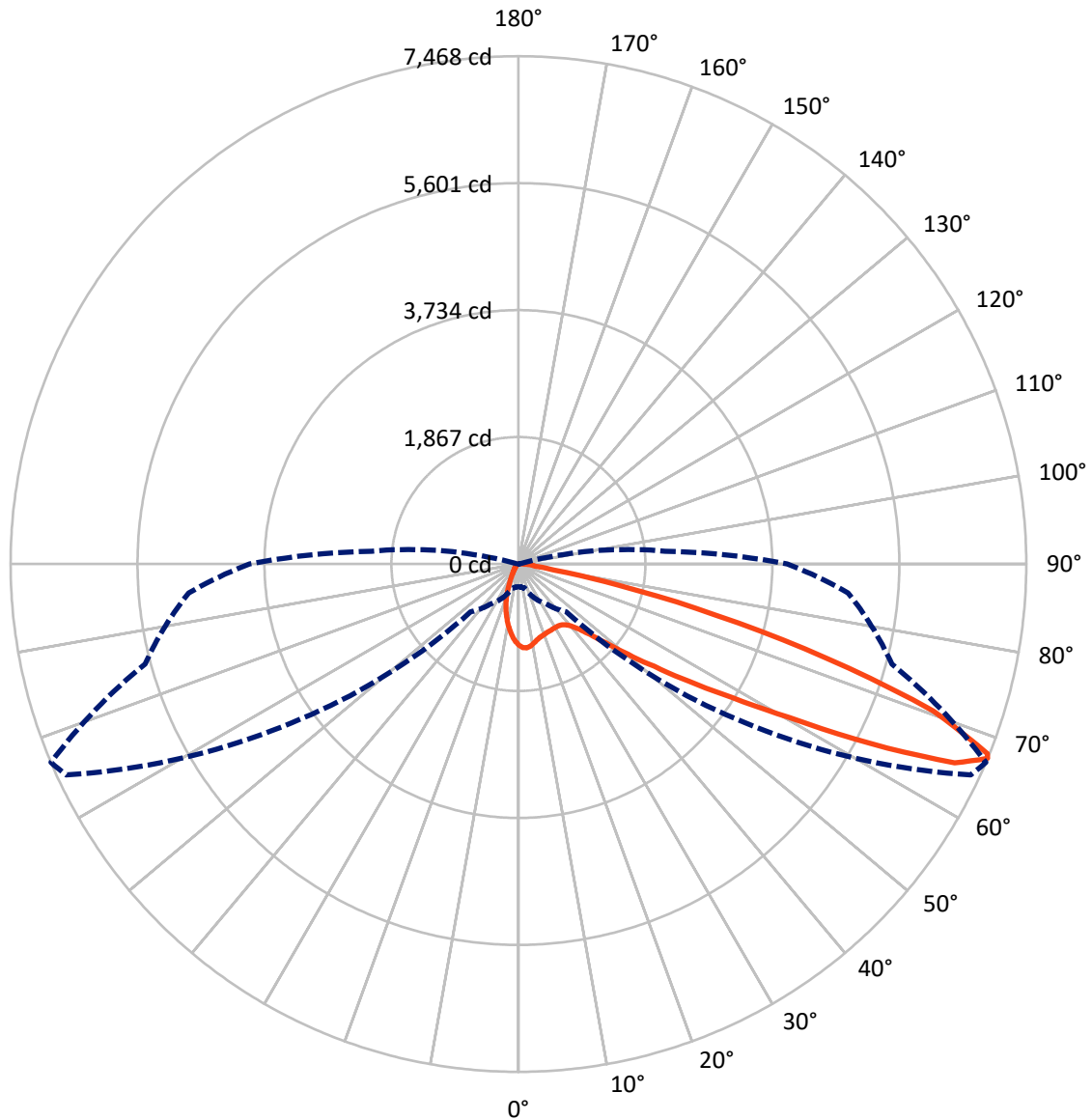
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	563.1	0.0	563.1
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	4859.9	0.0	4859.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	5423.0	0.0	5423.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	1.8
10°-20°	207.1	3.8
20°-30°	301.1	5.6
30°-40°	469.8	8.7
40°-50°	832.2	15.3
50°-60°	1316.9	24.3
60°-70°	1508.3	27.8
70°-80°	625.6	11.5
80°-90°	64.6	1.2
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°	5423.0	100.0
0°-180°	5423.0	100.0

Coefficient of Utilization



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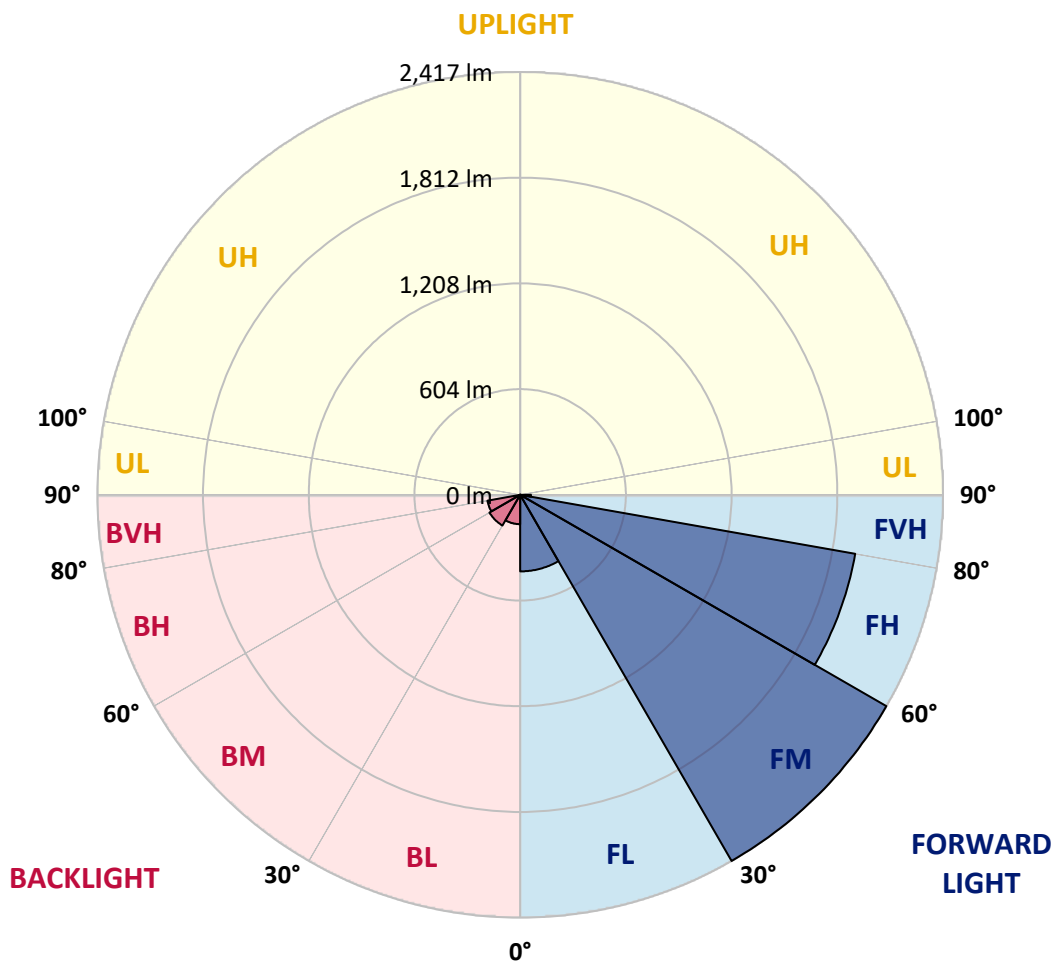
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	437.6	8.1			
FM (30°-60°)	2416.5	44.6			
FH (60°-80°)	1944.2	35.9			G2/5000
FVH (80°-90°)	61.7	1.1			G1/100
BL (0°-30°)	168.0	3.1	B1/500		
BM (30°-60°)	202.4	3.7	B0/220		
BH (60°-80°)	189.8	3.5	B1/500		G1/500
BVH (80°-90°)	2.9	0.1			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1196.0	1196.0	1196.0	1196.0	1196.0	1196.0	1196.0	1196.0	1196.0	1196.0	1196.0
2.5°	1236.5	1239.0	1238.7	1240.6	1245.0	1245.3	1240.9	1232.3	1230.4	1219.4	1200.1
5°	1140.3	1147.6	1152.0	1170.0	1190.3	1214.6	1233.0	1239.6	1238.7	1230.8	1201.7
7.5°	1030.5	1037.8	1042.9	1064.1	1091.0	1132.7	1180.5	1219.7	1223.2	1231.7	1200.4
10°	957.5	958.7	965.7	985.9	1014.1	1056.8	1113.7	1182.4	1192.8	1224.1	1197.2
12.5°	897.4	898.3	907.5	929.3	959.4	1002.4	1062.2	1141.6	1157.7	1214.6	1196.6
15°	854.7	858.2	866.4	889.2	921.1	963.8	1025.2	1111.5	1130.8	1211.2	1202.3
17.5°	840.4	844.2	846.8	863.2	892.3	934.1	997.0	1091.9	1113.7	1213.1	1213.4
20°	855.3	858.2	852.5	856.6	874.6	911.9	973.3	1075.1	1101.1	1215.3	1227.6
22.5°	910.7	911.9	896.4	878.4	875.2	895.8	954.6	1061.9	1089.7	1221.3	1244.4
25°	1005.6	1003.3	978.0	939.1	902.4	892.9	943.6	1053.6	1084.0	1227.6	1261.8
27.5°	1120.1	1123.2	1088.4	1031.8	961.9	911.9	942.0	1050.2	1081.5	1232.0	1276.9
30°	1259.2	1263.7	1223.8	1152.6	1052.4	958.7	956.5	1049.5	1079.9	1229.2	1278.2
32.5°	1401.3	1406.6	1375.3	1301.9	1173.2	1037.2	989.4	1056.5	1083.0	1219.4	1270.9
35°	1549.9	1557.5	1536.6	1473.7	1337.0	1150.4	1047.3	1077.7	1097.9	1218.4	1263.7
37.5°	1755.2	1762.2	1722.9	1656.2	1535.4	1302.3	1140.3	1117.5	1133.0	1233.6	1265.6
40°	2061.7	2060.8	1959.5	1857.4	1753.3	1495.2	1270.9	1189.6	1197.6	1279.5	1289.0
42.5°	2395.7	2394.2	2244.5	2089.2	1995.3	1732.8	1442.7	1314.3	1308.9	1363.9	1349.7
45°	2653.2	2652.9	2530.8	2355.9	2286.6	2005.4	1664.7	1487.6	1479.4	1501.2	1461.7
47.5°	2763.0	2764.9	2703.5	2580.5	2609.6	2374.2	1944.7	1738.8	1726.4	1717.6	1657.5
50°	2677.6	2681.4	2686.4	2662.4	2846.5	2869.9	2320.1	2092.7	2086.7	2047.2	1953.2
52.5°	2398.6	2417.9	2477.3	2553.6	2928.7	3345.6	2908.8	2532.4	2500.1	2458.1	2354.6
55°	1928.5	1949.7	2062.7	2247.7	2806.3	3658.1	3733.7	3099.2	3045.4	2919.9	2770.6
57.5°	1276.3	1309.2	1473.1	1708.4	2450.8	3708.4	4556.8	3885.9	3698.6	3354.8	3186.5
60°	703.2	734.8	912.6	1125.8	1770.1	3459.8	5110.3	4910.1	4579.2	3841.0	3691.7
62.5°	433.0	450.1	581.4	779.7	1061.5	2730.7	5224.8	6197.2	5814.1	4466.9	4301.8
65°	344.8	352.1	416.3	637.4	761.0	1624.3	4855.1	7178.4	7050.6	5224.8	4848.1
67°	334.7	337.5	367.9	547.2	717.4	995.7	4067.4	7338.1	7467.8	5683.5	4865.2
67.5°	336.9	340.0	368.8	522.2	716.1	915.1	3796.0	7275.2	7439.0	5719.9	4789.6
70°	324.9	334.7	422.3	521.9	681.0	760.4	2273.3	6303.4	6473.9	5314.7	4064.0
72.5°	115.1	115.8	182.5	422.3	740.5	768.6	1141.6	4621.0	4747.2	4065.5	2930.0
75°	68.3	58.2	60.7	120.2	707.6	746.5	658.6	2952.8	2999.9	2329.6	1483.8
77.5°	47.1	41.1	42.4	53.1	269.5	736.1	523.2	1539.8	1489.5	817.0	316.0
80°	26.9	23.7	25.3	46.5	98.1	686.7	493.4	624.4	532.4	138.5	87.3
82.5°	14.2	12.0	14.6	38.3	68.3	428.0	494.4	301.8	239.1	46.8	59.5
85°	5.1	4.1	7.0	26.3	45.5	131.3	458.3	253.7	199.3	22.8	45.2
87.5°	0.9	0.9	2.8	10.8	18.3	40.2	271.1	150.6	100.9	13.6	31.0
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°	1196.0	1196.0	1196.0	1196.0	1196.0	1196.0	1196.0	1196.0	1196.0	1196.0	1196.0
2.5°	1192.2	1178.6	1160.2	1137.8	1111.2	1087.8	1070.4	1052.4	1048.6	1042.2	1041.3
5°	1184.3	1160.9	1115.3	1063.1	1007.5	957.2	916.4	880.0	863.8	849.9	848.3
7.5°	1172.6	1137.5	1060.0	975.8	888.8	809.8	742.7	695.3	651.6	630.7	627.6
10°	1159.0	1108.7	997.6	880.9	760.7	649.1	549.4	465.9	415.3	385.3	381.5
12.5°	1146.3	1080.5	934.1	782.6	622.8	473.5	345.4	265.7	212.6	191.1	188.5
15°	1140.3	1057.7	874.6	682.0	478.6	301.4	188.8	146.1	128.7	123.7	123.4
17.5°	1139.7	1038.4	816.4	577.9	335.3	175.2	123.0	112.3	108.8	107.5	107.5
20°	1139.4	1020.1	758.2	470.0	212.9	116.7	102.5	100.0	97.4	95.8	95.8
22.5°	1142.8	1003.7	697.5	360.0	134.1	94.6	90.1	87.6	84.5	82.2	81.9
25°	1146.3	991.0	635.5	256.2	97.1	82.2	77.8	74.3	69.9	67.1	66.7
27.5°	1146.9	975.2	569.0	171.4	81.3	71.8	66.1	60.7	55.7	52.8	52.5
30°	1137.5	948.6	495.3	115.8	71.8	62.3	54.7	49.0	44.3	42.1	42.1
32.5°	1118.8	915.7	414.4	87.3	63.9	53.5	45.2	39.9	36.7	35.7	35.4
35°	1102.0	880.3	331.2	74.0	57.3	45.2	37.0	33.5	31.6	31.3	31.0
37.5°	1092.2	851.8	253.0	67.1	50.9	38.0	31.3	28.8	27.8	27.2	27.5
40°	1099.8	828.1	186.9	61.4	44.6	31.6	26.6	25.3	24.4	24.0	24.0
42.5°	1133.0	824.0	138.9	56.3	38.6	26.3	23.1	22.1	21.5	21.2	21.5
45°	1220.3	849.3	107.9	51.6	32.6	22.1	19.6	19.3	19.0	19.0	19.0
47.5°	1351.6	901.5	89.8	46.2	27.2	19.0	17.1	16.8	16.4	16.8	16.8
50°	1574.0	997.0	80.3	40.8	22.5	16.1	14.6	14.6	14.6	14.6	14.9
52.5°	1912.1	1184.9	74.0	35.4	18.3	13.6	12.3	12.3	12.7	12.7	13.0
55°	2288.8	1434.2	68.3	30.0	15.5	11.4	10.1	10.4	10.8	11.1	11.1
57.5°	2697.5	1710.3	63.6	24.7	13.3	9.2	8.5	8.9	9.2	9.8	9.8
60°	3190.6	2009.2	56.6	19.3	11.1	7.3	6.6	7.3	8.2	8.9	9.2
62.5°	3732.2	2298.3	47.8	15.2	9.2	5.7	5.4	6.6	7.9	8.5	8.9
65°	4102.2	2389.1	36.7	12.3	7.0	4.1	4.4	6.0	7.6	8.5	8.5
67°	3952.3	2166.1	30.0	10.4	5.7	3.2	4.1	6.0	7.6	8.2	8.5
67.5°	3848.2	2078.8	28.8	10.1	5.4	3.2	4.1	6.0	7.6	8.5	8.5
70°	3131.2	1561.6	24.0	7.6	4.4	2.8	3.5	5.7	7.3	8.2	8.2
72.5°	2175.6	962.9	21.5	5.4	3.8	2.5	3.2	5.4	7.0	7.9	8.2
75°	1034.3	348.6	18.3	4.1	3.5	2.2	2.8	5.4	7.0	7.9	7.9
77.5°	211.0	81.0	14.9	3.5	2.8	2.2	2.5	5.1	6.6	7.6	7.6
80°	69.3	31.3	11.1	3.2	2.8	2.2	2.5	4.7	6.6	7.3	7.6
82.5°	50.0	15.8	7.3	3.2	2.8	2.2	2.2	4.7	6.3	7.3	7.3
85°	38.3	11.1	4.7	3.2	2.8	2.2	2.2	4.4	6.0	7.0	7.0
87.5°	25.3	4.4	3.8	3.2	2.8	2.2	2.2	4.4	5.7	6.6	7.0
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)