

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: P193610

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193610  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)  
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  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES 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: 6415 lumens  
Efficiency: N/A  
Efficacy: 97.2 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

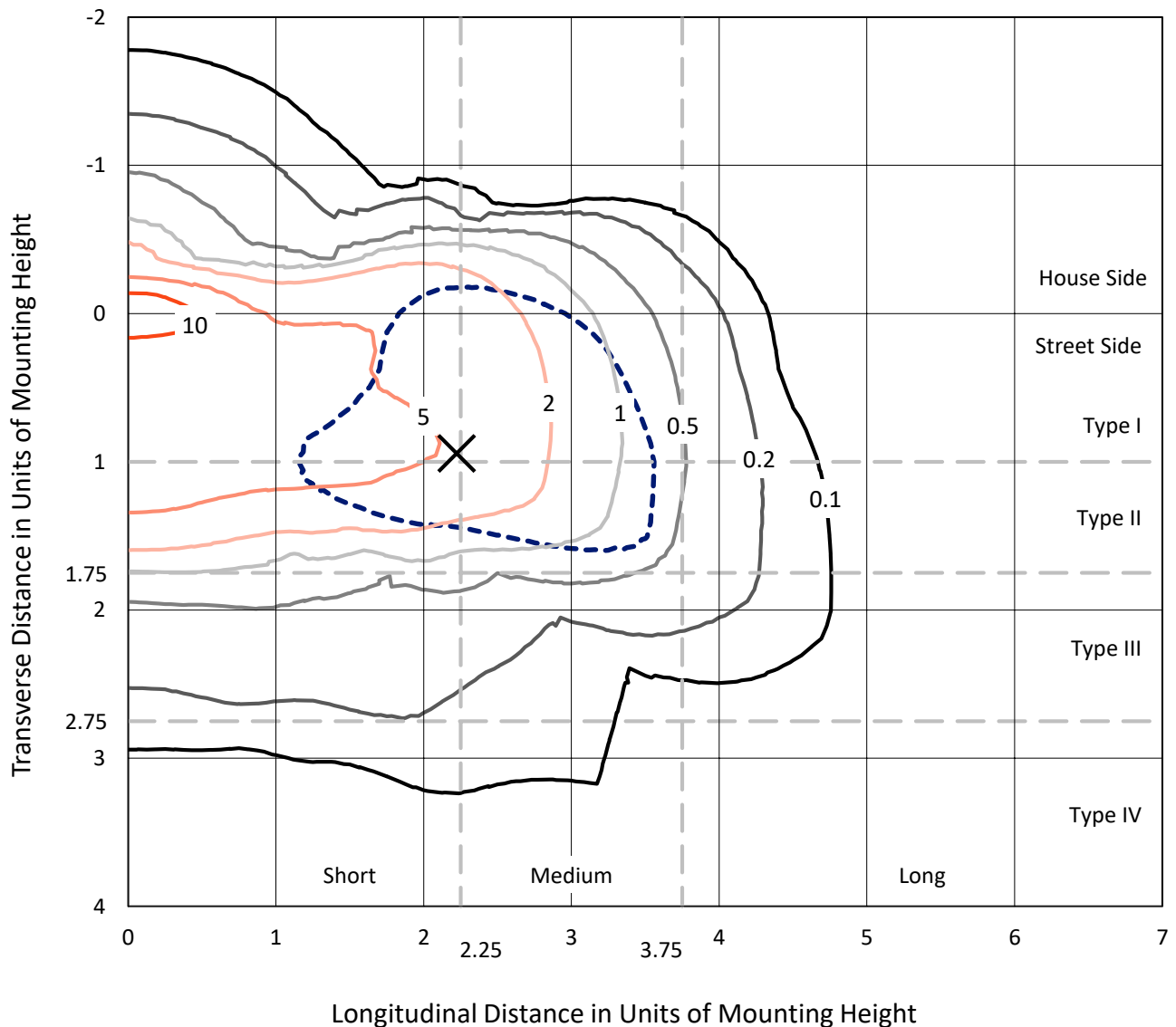
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

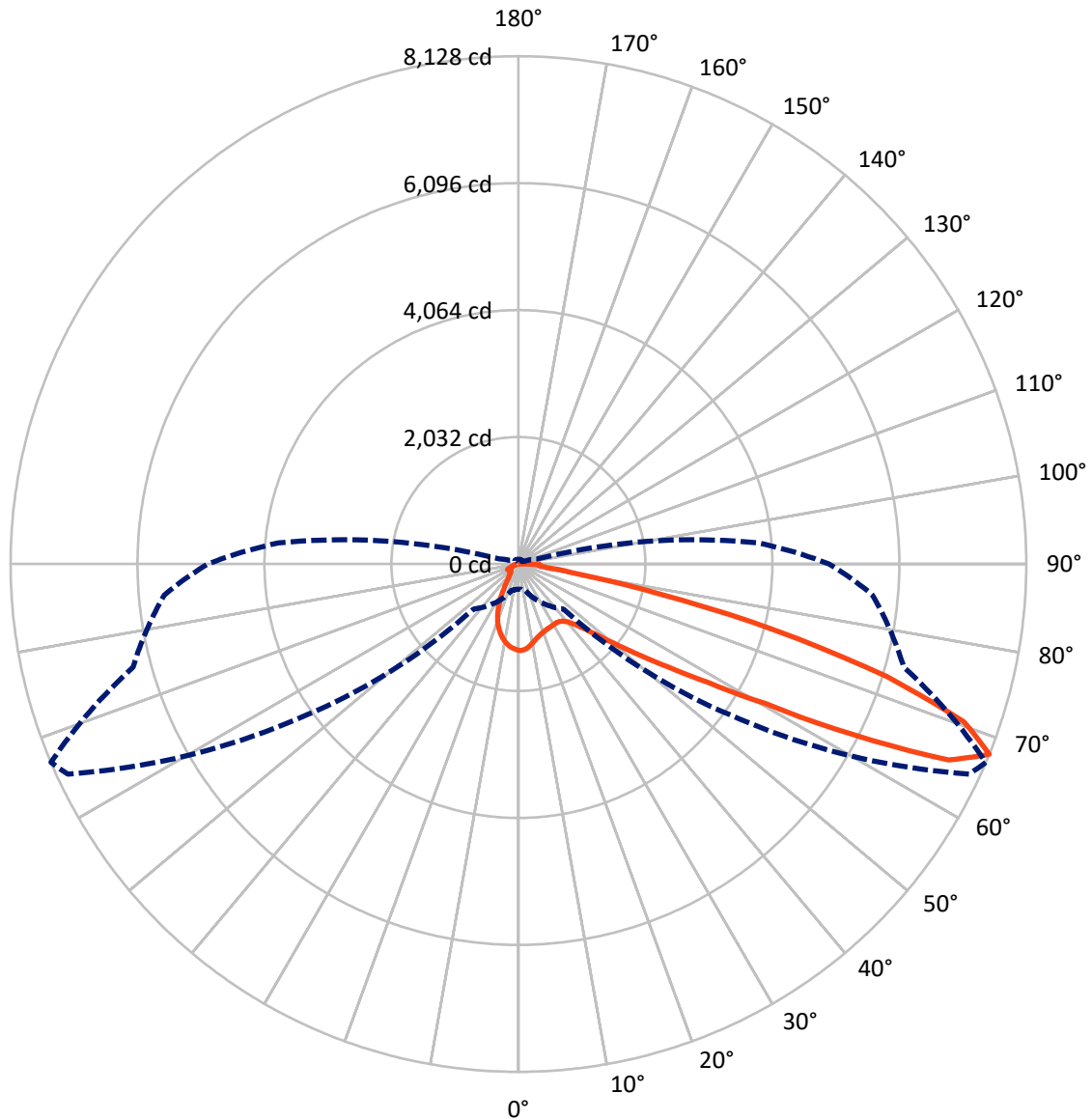
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.8 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1062.9	0.0	1062.9
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	5352.1	0.0	5352.1
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	6415.0	0.0	6415.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.1	1.8
10°-20°	273.1	4.3
20°-30°	370.3	5.8
30°-40°	526.4	8.2
40°-50°	880.6	13.7
50°-60°	1393.1	21.7
60°-70°	1774.7	27.7
70°-80°	929.6	14.5
80°-90°	149.1	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°	6415.0	100.0
0°-180°	6415.0	100.0



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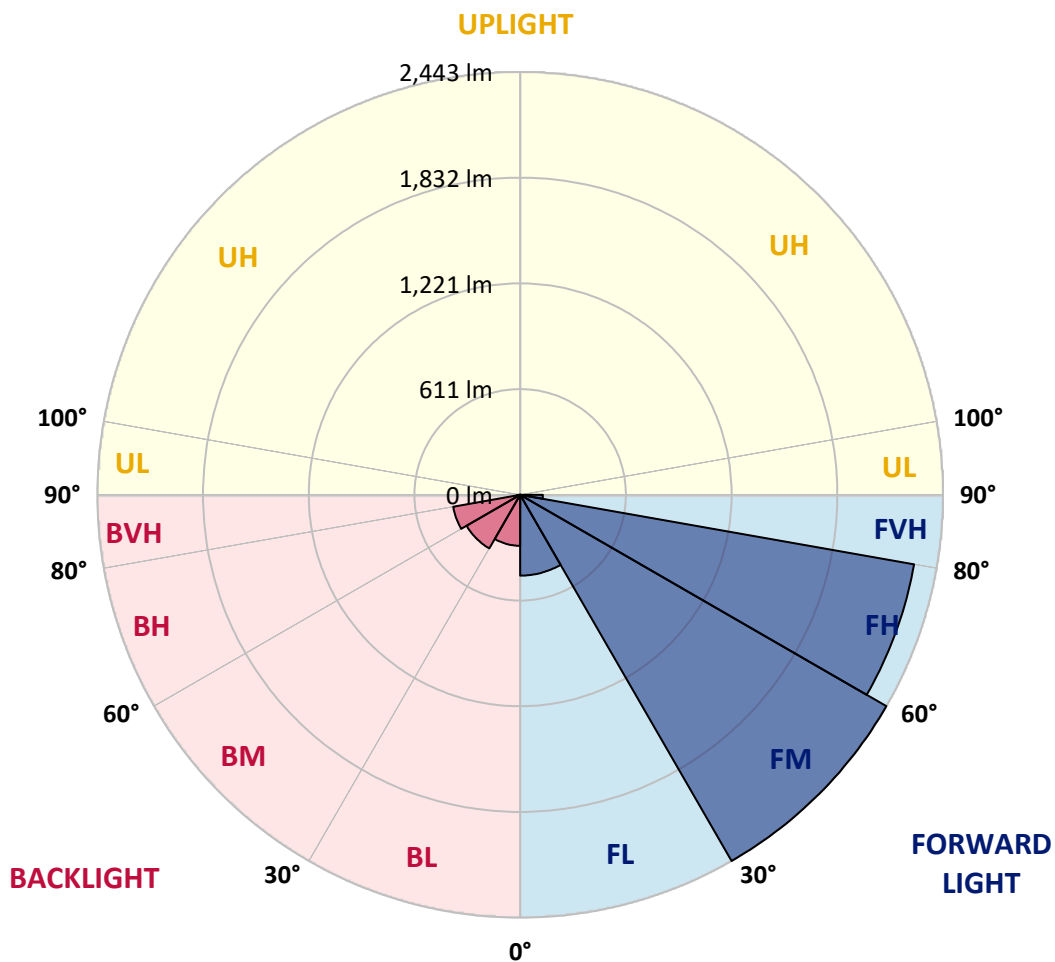
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	466.9	7.3			
FM (30°-60°)	2443.0	38.1			
FH (60°-80°)	2311.2	36.0			G2/5000
FVH (80°-90°)	131.1	2.0			G2/225
BL (0°-30°)	294.6	4.6	B1/500		
BM (30°-60°)	357.2	5.6	B1/1000		
BH (60°-80°)	393.1	6.1	B1/500		G1/500
BVH (80°-90°)	18.0	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7
2.5°	1326.8	1329.0	1335.9	1340.4	1360.3	1368.8	1374.8	1380.9	1381.8	1384.6	1381.8
5°	1187.6	1192.3	1205.3	1219.8	1258.4	1288.8	1320.7	1354.0	1360.0	1381.5	1387.5
7.5°	1079.7	1078.4	1089.2	1106.6	1146.1	1188.2	1244.2	1310.3	1323.3	1371.7	1395.1
10°	1000.9	1000.0	1011.4	1029.4	1067.0	1106.9	1170.2	1260.6	1279.0	1356.2	1402.4
12.5°	942.7	943.0	954.4	974.3	1012.6	1052.8	1117.0	1212.6	1236.0	1338.1	1410.0
15°	904.1	906.6	915.8	937.0	974.3	1014.5	1077.5	1176.5	1202.7	1323.9	1418.5
17.5°	891.1	895.3	898.4	913.9	945.9	986.1	1047.7	1149.9	1177.8	1314.1	1426.1
20°	903.2	907.9	901.9	907.3	927.5	963.0	1024.3	1129.0	1157.5	1303.0	1427.0
22.5°	954.7	959.2	941.4	925.9	924.7	946.2	1005.0	1112.6	1142.0	1294.8	1427.4
25°	1045.5	1048.4	1018.6	982.6	947.5	940.2	991.4	1101.2	1132.5	1287.5	1421.3
27.5°	1156.9	1159.1	1124.9	1071.8	1001.2	954.4	986.7	1094.6	1127.1	1281.2	1411.2
30°	1292.3	1302.7	1256.8	1189.8	1087.0	996.5	996.2	1091.1	1121.1	1270.4	1391.3
32.5°	1430.8	1435.3	1403.6	1335.6	1202.4	1070.5	1022.7	1093.6	1119.6	1257.5	1366.0
35°	1571.3	1577.0	1556.4	1501.7	1360.3	1179.0	1074.6	1108.5	1129.4	1253.0	1348.3
37.5°	1753.2	1760.8	1732.3	1669.0	1552.3	1326.1	1161.0	1145.8	1159.4	1265.7	1342.9
40°	2040.8	2037.3	1954.1	1859.8	1762.4	1514.4	1284.4	1209.1	1217.0	1306.5	1359.3
42.5°	2375.4	2366.9	2223.6	2075.5	1993.3	1742.1	1447.6	1318.8	1317.3	1386.9	1417.2
45°	2642.4	2635.5	2506.4	2323.9	2258.1	2001.5	1658.6	1482.4	1470.7	1514.4	1524.2
47.5°	2787.0	2787.3	2713.0	2564.0	2562.4	2331.2	1929.7	1719.0	1698.8	1719.3	1708.9
50°	2736.4	2743.0	2735.1	2687.7	2840.2	2763.3	2283.7	2049.0	2008.2	2028.4	1988.2
52.5°	2491.5	2500.1	2546.9	2619.7	2956.9	3285.6	2803.8	2459.0	2411.5	2404.2	2359.6
55°	2057.5	2068.0	2163.5	2361.2	2859.8	3636.4	3624.4	2981.6	2906.0	2837.3	2818.3
57.5°	1418.2	1435.6	1589.3	1882.9	2545.6	3742.4	4601.6	3726.6	3572.8	3333.0	3337.5
60°	799.4	819.7	1000.9	1267.6	1911.7	3627.2	5345.0	4855.0	4530.4	3913.5	3946.4
62.5°	508.4	530.2	667.8	880.7	1147.1	3007.2	5649.6	6423.7	6011.5	4629.1	4661.4
65°	411.6	421.1	485.9	727.0	832.9	1811.7	5418.4	7716.0	7562.3	5537.3	5386.7
67.5°	401.8	404.9	438.5	610.2	798.8	1018.3	4321.9	7957.7	8128.2	6385.5	5688.9
70°	397.0	408.1	494.1	582.4	764.9	858.9	2597.2	7295.3	7564.5	6607.2	5286.8
72.5°	192.7	192.0	248.6	526.7	861.7	890.8	1334.3	5902.7	6172.9	5724.3	4344.4
75°	155.3	142.0	135.7	193.0	828.5	919.9	850.3	4061.6	4257.1	3837.9	2670.6
77.5°	147.4	131.6	120.5	120.8	350.2	975.6	720.3	2248.0	2304.9	1733.6	731.7
80°	122.1	107.6	99.6	112.3	169.6	929.1	778.8	1017.4	933.5	425.8	243.6
82.5°	84.8	77.2	75.0	94.3	135.7	662.1	905.7	546.6	458.4	213.2	150.3
85°	54.1	46.2	51.2	68.6	105.7	305.6	932.9	426.1	338.8	135.4	84.8
87.5°	25.0	20.2	25.3	38.0	69.0	105.3	887.7	478.6	348.9	71.5	53.5
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°	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7
2.5°	1384.3	1378.3	1373.6	1364.7	1354.9	1345.4	1336.9	1326.1	1323.0	1320.1	1324.5
5°	1388.8	1382.8	1365.4	1338.1	1308.1	1279.9	1251.8	1227.7	1212.9	1204.6	1209.4
7.5°	1395.4	1386.9	1350.8	1300.8	1246.7	1197.4	1146.4	1105.6	1075.6	1061.3	1065.5
10°	1401.4	1385.0	1326.1	1251.2	1172.1	1098.7	1018.3	951.9	902.5	876.6	882.9
12.5°	1403.9	1377.7	1291.6	1189.1	1080.6	973.1	854.8	755.4	684.6	658.6	653.3
15°	1406.5	1369.5	1253.7	1118.6	970.2	818.1	652.3	533.4	474.5	461.5	458.7
17.5°	1407.1	1355.2	1210.7	1042.0	840.8	633.6	446.0	370.4	370.8	391.6	394.2
20°	1400.5	1334.0	1158.5	946.8	685.8	438.1	306.2	293.3	341.0	393.2	399.5
22.5°	1385.3	1305.9	1099.3	835.8	508.4	288.5	236.9	251.2	312.9	376.8	384.0
25°	1366.0	1271.7	1029.4	707.0	336.6	206.3	198.7	216.1	257.8	300.5	304.6
27.5°	1339.7	1231.2	950.9	559.6	218.6	169.9	174.9	186.6	203.7	222.7	224.6
30°	1305.9	1182.8	867.1	408.1	165.1	152.8	160.1	166.4	173.7	184.4	185.4
32.5°	1267.0	1136.3	781.1	281.9	146.5	143.9	149.6	152.8	158.5	165.1	165.8
35°	1234.4	1092.0	691.8	199.3	138.6	137.3	141.1	142.4	147.7	155.0	155.6
37.5°	1215.7	1056.0	599.8	160.7	133.2	131.3	133.5	133.5	141.1	151.8	153.4
40°	1217.0	1036.0	507.7	145.2	128.8	126.2	126.5	126.5	136.3	148.1	149.0
42.5°	1251.5	1041.1	426.1	139.2	125.3	122.4	120.8	121.8	130.0	137.6	138.2
45°	1332.5	1076.8	349.6	135.4	121.8	120.8	117.4	117.0	120.2	123.7	123.7
47.5°	1465.3	1147.4	297.7	132.9	118.9	118.6	114.5	110.4	110.1	111.4	111.4
50°	1681.4	1268.9	262.9	130.0	117.0	114.5	109.8	103.4	101.2	102.2	102.2
52.5°	2005.3	1485.6	249.6	126.2	112.9	108.8	103.4	97.1	95.2	95.5	95.5
55°	2430.2	1818.4	247.7	121.8	108.5	101.9	97.4	92.7	90.5	91.1	91.1
57.5°	2949.3	2278.6	281.5	114.8	102.5	94.9	92.4	89.2	87.6	88.6	88.3
60°	3580.4	2881.0	417.6	107.6	96.5	88.6	88.6	86.0	84.8	85.7	85.4
62.5°	4307.4	3572.8	587.1	102.2	90.2	83.5	84.8	83.5	82.3	82.9	82.6
65°	4952.1	4023.6	549.8	98.1	83.8	78.8	81.0	80.4	79.4	80.0	79.7
67.5°	4970.8	3856.6	308.8	93.6	77.8	74.0	77.2	76.9	76.2	76.9	76.6
70°	4436.1	3256.5	174.0	85.4	71.5	68.3	72.8	72.4	71.8	73.1	72.8
72.5°	3554.2	2363.1	127.2	75.3	65.2	62.3	67.4	67.1	67.1	69.0	68.0
75°	2045.2	1216.0	101.5	64.5	58.5	56.3	60.7	61.1	61.7	64.2	62.3
77.5°	583.0	379.0	82.9	54.7	50.3	49.4	53.8	54.4	54.7	57.6	55.0
80°	216.7	174.6	68.3	45.9	41.1	41.4	45.6	46.5	46.8	49.7	46.5
82.5°	138.2	115.2	55.4	35.4	32.3	32.0	37.0	38.3	38.3	38.6	36.7
85°	80.7	69.0	41.8	25.6	22.8	21.8	27.5	29.7	28.8	28.2	26.9
87.5°	54.1	47.5	25.6	14.2	12.3	11.7	16.1	17.7	17.1	16.1	15.2
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)