

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: P191830

Luminaire Tested: **GLEON-AF-02-LED-E1-SL2-7050-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191830
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-SL2-7050-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 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: 6646 lumens
Efficiency: N/A
Efficacy: 100.7 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

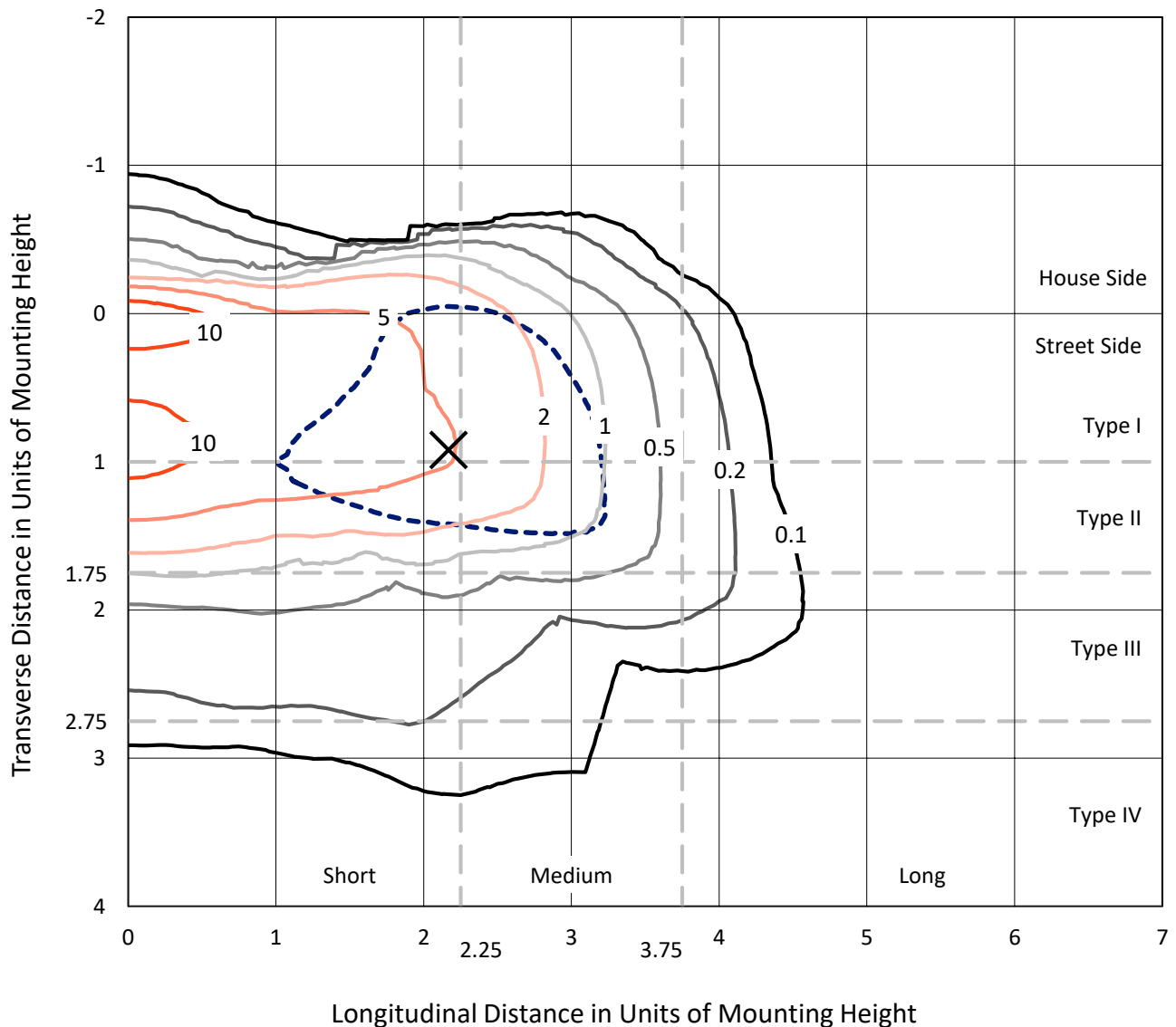


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Iso-Footcandle Lines of Horizontal Illumination

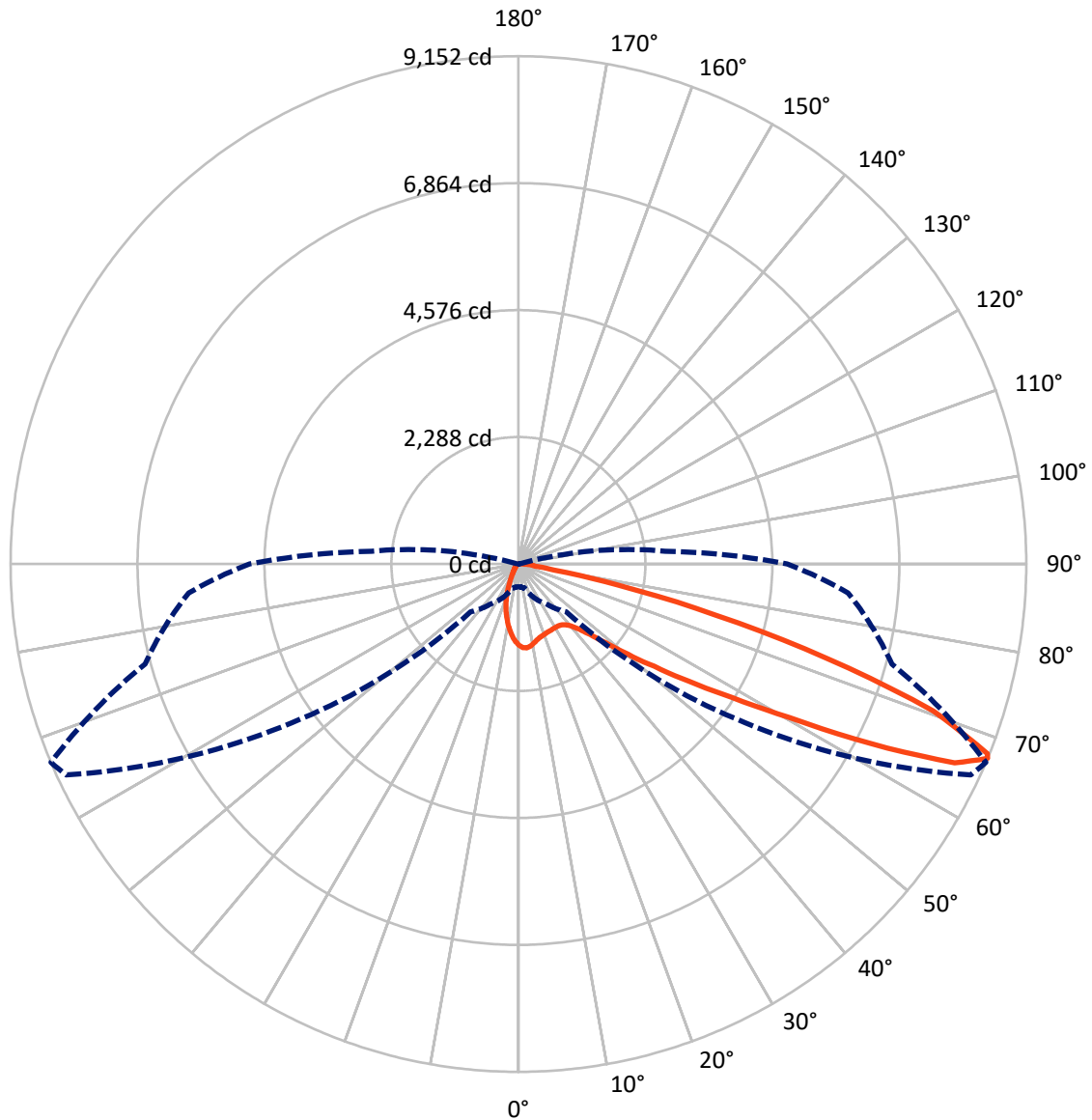
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.7 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	690.1	0.0	690.1
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	5955.9	0.0	5955.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	6646.0	0.0	6646.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.3	1.8
10°-20°	253.8	3.8
20°-30°	369.1	5.6
30°-40°	575.7	8.7
40°-50°	1019.9	15.3
50°-60°	1613.9	24.3
60°-70°	1848.5	27.8
70°-80°	766.7	11.5
80°-90°	79.2	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°	6646.0	100.0
0°-180°	6646.0	100.0

Coefficient of Utilization



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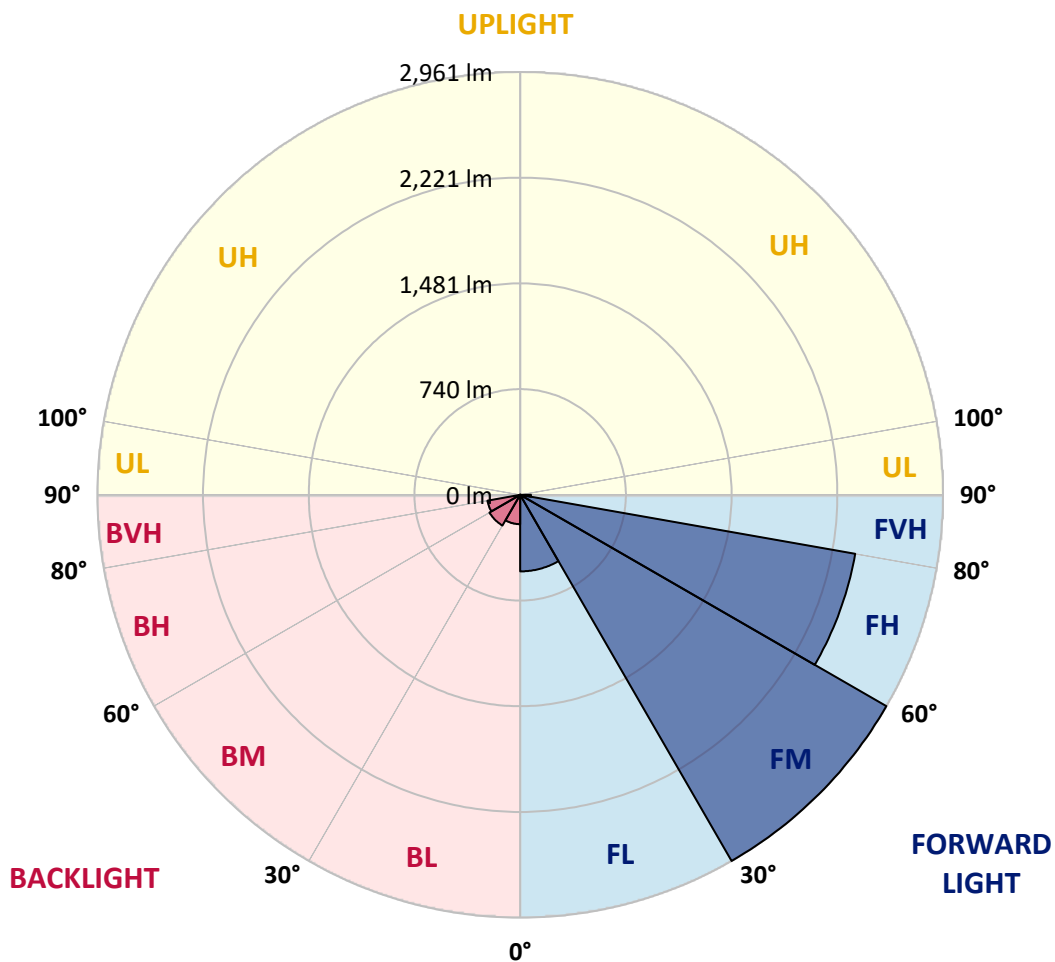
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	536.2	8.1			
FM (30°-60°)	2961.5	44.6			
FH (60°-80°)	2382.6	35.9			G2/5000
FVH (80°-90°)	75.6	1.1			G1/100
BL (0°-30°)	205.9	3.1	B1/500		
BM (30°-60°)	248.0	3.7	B1/1000		
BH (60°-80°)	232.6	3.5	B1/500		G1/500
BVH (80°-90°)	3.6	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°	1465.7	1465.7	1465.7	1465.7	1465.7	1465.7	1465.7	1465.7	1465.7	1465.7	1465.7
2.5°	1515.3	1518.4	1518.0	1520.3	1525.8	1526.2	1520.7	1510.3	1507.9	1494.4	1470.7
5°	1397.5	1406.4	1411.8	1433.9	1458.7	1488.6	1511.0	1519.2	1518.0	1508.3	1472.7
7.5°	1262.9	1271.9	1278.1	1304.0	1337.0	1388.2	1446.7	1494.8	1499.0	1509.5	1471.1
10°	1173.4	1175.0	1183.5	1208.3	1242.8	1295.1	1364.9	1449.0	1461.8	1500.2	1467.2
12.5°	1099.8	1100.9	1112.2	1138.9	1175.7	1228.4	1301.7	1399.0	1418.8	1488.6	1466.5
15°	1047.4	1051.7	1061.8	1089.7	1128.8	1181.2	1256.4	1362.2	1385.8	1484.3	1473.4
17.5°	1030.0	1034.6	1037.7	1057.9	1093.5	1144.7	1221.9	1338.2	1364.9	1486.6	1487.0
20°	1048.2	1051.7	1044.7	1049.7	1071.8	1117.6	1192.8	1317.6	1349.4	1489.3	1504.5
22.5°	1116.0	1117.6	1098.6	1076.5	1072.6	1097.8	1169.9	1301.3	1335.4	1496.7	1525.0
25°	1232.3	1229.6	1198.6	1150.9	1106.0	1094.3	1156.3	1291.2	1328.5	1504.5	1546.3
27.5°	1372.7	1376.5	1333.9	1264.5	1178.8	1117.6	1154.4	1287.0	1325.4	1509.9	1564.9
30°	1543.2	1548.6	1499.8	1412.6	1289.7	1175.0	1172.2	1286.2	1323.4	1506.4	1566.5
32.5°	1717.3	1723.9	1685.5	1595.5	1437.8	1271.1	1212.6	1294.7	1327.3	1494.4	1557.6
35°	1899.5	1908.8	1883.2	1806.0	1638.6	1409.9	1283.5	1320.7	1345.5	1493.2	1548.6
37.5°	2151.0	2159.6	2111.5	2029.7	1881.6	1595.9	1397.5	1369.6	1388.5	1511.8	1551.0
40°	2526.7	2525.5	2401.5	2276.3	2148.7	1832.4	1557.6	1457.9	1467.6	1568.0	1579.7
42.5°	2936.0	2934.1	2750.7	2560.4	2445.3	2123.5	1768.1	1610.7	1604.1	1671.5	1654.1
45°	3251.6	3251.2	3101.6	2887.2	2802.3	2457.7	2040.2	1823.1	1813.0	1839.8	1791.3
47.5°	3386.1	3388.4	3313.2	3162.4	3198.1	2909.7	2383.2	2130.9	2115.8	2104.9	2031.3
50°	3281.4	3286.1	3292.3	3262.8	3488.4	3517.1	2843.4	2564.7	2557.3	2508.8	2393.7
52.5°	2939.5	2963.2	3036.0	3129.5	3589.2	4100.1	3564.8	3103.5	3064.0	3012.4	2885.6
55°	2363.5	2389.4	2527.8	2754.6	3439.2	4483.1	4575.8	3798.2	3732.3	3578.4	3395.4
57.5°	1564.2	1604.5	1805.3	2093.7	3003.5	4544.8	5584.4	4762.2	4532.7	4111.4	3905.1
60°	861.7	900.5	1118.4	1379.6	2169.3	4240.1	6262.8	6017.4	5611.9	4707.2	4524.2
62.5°	530.7	551.6	712.5	955.5	1300.9	3346.5	6403.1	7594.8	7125.3	5474.3	5272.0
65°	422.5	431.4	510.1	781.1	932.7	1990.6	5950.0	8797.2	8640.6	6403.1	5941.4
67°	410.1	413.6	450.8	670.6	879.2	1220.3	4984.7	8993.0	9151.9	6965.2	5962.4
67.5°	412.8	416.7	452.0	640.0	877.6	1121.5	4652.1	8915.9	9116.7	7009.8	5869.7
70°	398.1	410.1	517.5	639.6	834.6	931.9	2786.0	7725.0	7933.9	6513.2	4980.5
72.5°	141.1	141.9	223.7	517.5	907.5	942.0	1399.0	5663.1	5817.8	4982.4	3590.8
75°	83.7	71.3	74.4	147.3	867.2	914.8	807.1	3618.7	3676.4	2855.0	1818.4
77.5°	57.8	50.4	51.9	65.1	330.3	902.1	641.2	1887.1	1825.4	1001.3	387.3
80°	32.9	29.1	31.0	57.0	120.2	841.6	604.7	765.2	652.4	169.8	107.0
82.5°	17.4	14.7	17.8	46.9	83.7	524.5	605.9	369.8	293.1	57.4	72.9
85°	6.2	5.0	8.5	32.2	55.8	160.9	561.7	310.9	244.2	27.9	55.4
87.5°	1.2	1.2	3.5	13.2	22.5	49.2	332.2	184.5	123.7	16.7	38.0
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°	1465.7	1465.7	1465.7	1465.7	1465.7	1465.7	1465.7	1465.7	1465.7	1465.7	1465.7
2.5°	1461.0	1444.4	1421.9	1394.4	1361.8	1333.1	1311.8	1289.7	1285.0	1277.3	1276.1
5°	1451.3	1422.7	1366.8	1302.9	1234.7	1173.0	1123.0	1078.4	1058.7	1041.6	1039.7
7.5°	1437.0	1394.0	1299.0	1195.9	1089.3	992.4	910.2	852.0	798.6	773.0	769.1
10°	1420.3	1358.7	1222.6	1079.6	932.3	795.4	673.3	571.0	509.0	472.2	467.5
12.5°	1404.8	1324.2	1144.7	959.0	763.3	580.3	423.3	325.6	260.5	234.1	231.0
15°	1397.5	1296.3	1071.8	835.8	586.5	369.4	231.4	179.1	157.8	151.6	151.2
17.5°	1396.7	1272.6	1000.5	708.2	410.9	214.8	150.8	137.6	133.4	131.8	131.8
20°	1396.3	1250.2	929.2	576.0	260.9	143.0	125.6	122.5	119.4	117.5	117.5
22.5°	1400.6	1230.0	854.8	441.1	164.4	115.9	110.5	107.4	103.5	100.8	100.4
25°	1404.8	1214.5	778.8	314.0	119.0	100.8	95.4	91.1	85.7	82.2	81.8
27.5°	1405.6	1195.1	697.4	210.1	99.6	88.0	81.0	74.4	68.2	64.7	64.3
30°	1394.0	1162.5	607.1	141.9	88.0	76.4	67.1	60.1	54.3	51.6	51.6
32.5°	1371.1	1122.2	507.8	107.0	78.3	65.5	55.4	48.8	45.0	43.8	43.4
35°	1350.6	1078.8	405.9	90.7	70.2	55.4	45.4	41.1	38.8	38.4	38.0
37.5°	1338.5	1043.9	310.1	82.2	62.4	46.5	38.4	35.3	34.1	33.3	33.7
40°	1347.8	1014.9	229.1	75.2	54.7	38.8	32.6	31.0	29.8	29.5	29.5
42.5°	1388.5	1009.8	170.2	69.0	47.3	32.2	28.3	27.1	26.4	26.0	26.4
45°	1495.5	1040.8	132.2	63.2	39.9	27.1	24.0	23.6	23.3	23.3	23.3
47.5°	1656.4	1104.8	110.1	56.6	33.3	23.3	20.9	20.5	20.2	20.5	20.5
50°	1928.9	1221.9	98.5	50.0	27.5	19.8	17.8	17.8	17.8	17.8	18.2
52.5°	2343.3	1452.1	90.7	43.4	22.5	16.7	15.1	15.1	15.5	15.5	15.9
55°	2805.0	1757.6	83.7	36.8	19.0	14.0	12.4	12.8	13.2	13.6	13.6
57.5°	3305.8	2096.0	77.9	30.2	16.3	11.2	10.5	10.9	11.2	12.0	12.0
60°	3910.2	2462.3	69.4	23.6	13.6	8.9	8.1	8.9	10.1	10.9	11.2
62.5°	4573.8	2816.6	58.5	18.6	11.2	7.0	6.6	8.1	9.7	10.5	10.9
65°	5027.4	2927.9	45.0	15.1	8.5	5.0	5.4	7.4	9.3	10.5	10.5
67°	4843.6	2654.6	36.8	12.8	7.0	3.9	5.0	7.4	9.3	10.1	10.5
67.5°	4716.1	2547.6	35.3	12.4	6.6	3.9	5.0	7.4	9.3	10.5	10.5
70°	3837.3	1913.8	29.5	9.3	5.4	3.5	4.3	7.0	8.9	10.1	10.1
72.5°	2666.2	1180.0	26.4	6.6	4.7	3.1	3.9	6.6	8.5	9.7	10.1
75°	1267.6	427.2	22.5	5.0	4.3	2.7	3.5	6.6	8.5	9.7	9.7
77.5°	258.6	99.2	18.2	4.3	3.5	2.7	3.1	6.2	8.1	9.3	9.3
80°	84.9	38.4	13.6	3.9	3.5	2.7	3.1	5.8	8.1	8.9	9.3
82.5°	61.2	19.4	8.9	3.9	3.5	2.7	2.7	5.8	7.8	8.9	8.9
85°	46.9	13.6	5.8	3.9	3.5	2.7	2.7	5.4	7.4	8.5	8.5
87.5°	31.0	5.4	4.7	3.9	3.5	2.7	2.7	5.4	7.0	8.1	8.5
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)