

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: P382874

Luminaire Tested: **GLEON-SA2B-735-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382874  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA2B-735-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7734.7 lumens  
Efficiency: N/A  
Efficacy: 91.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

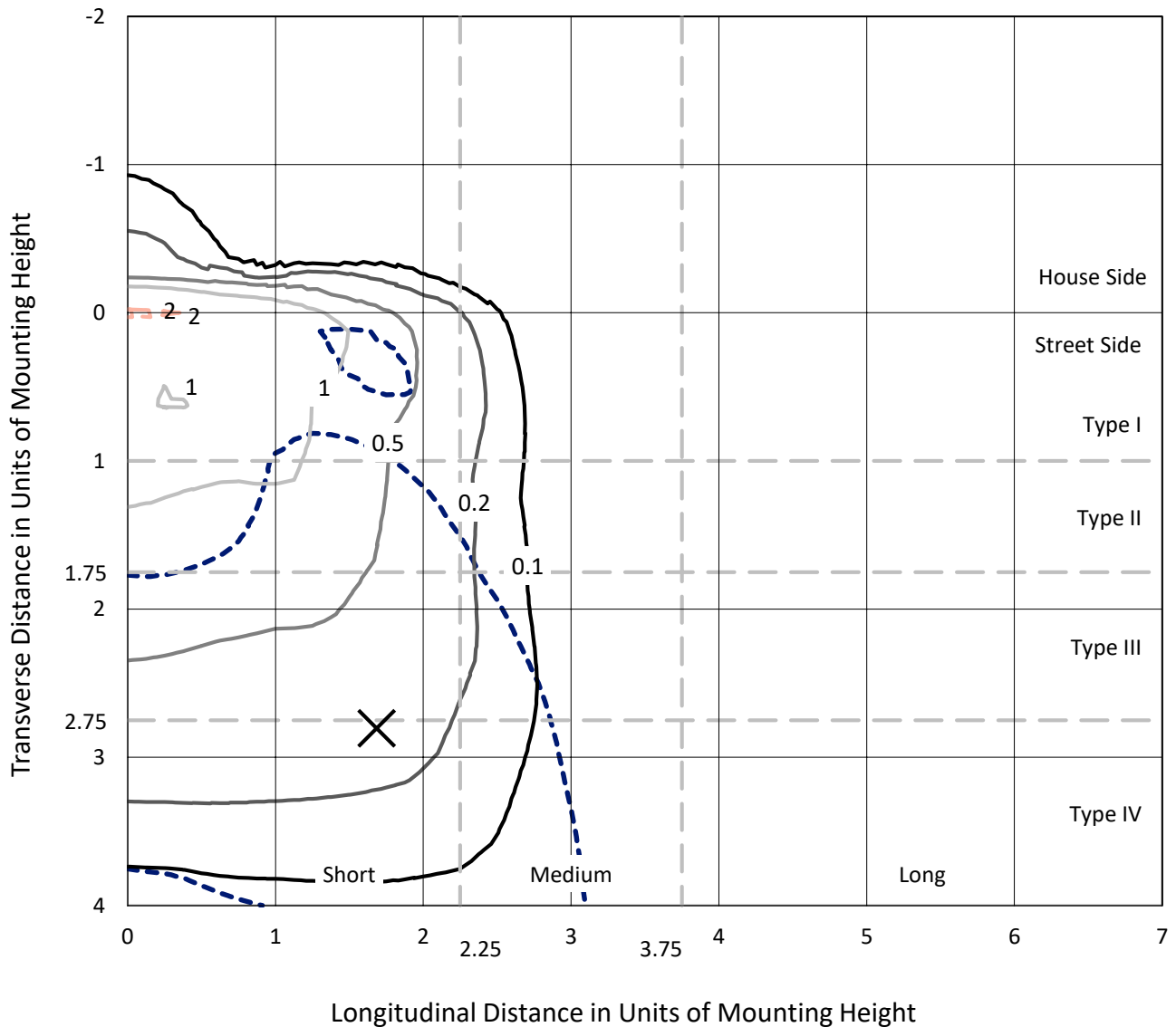
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

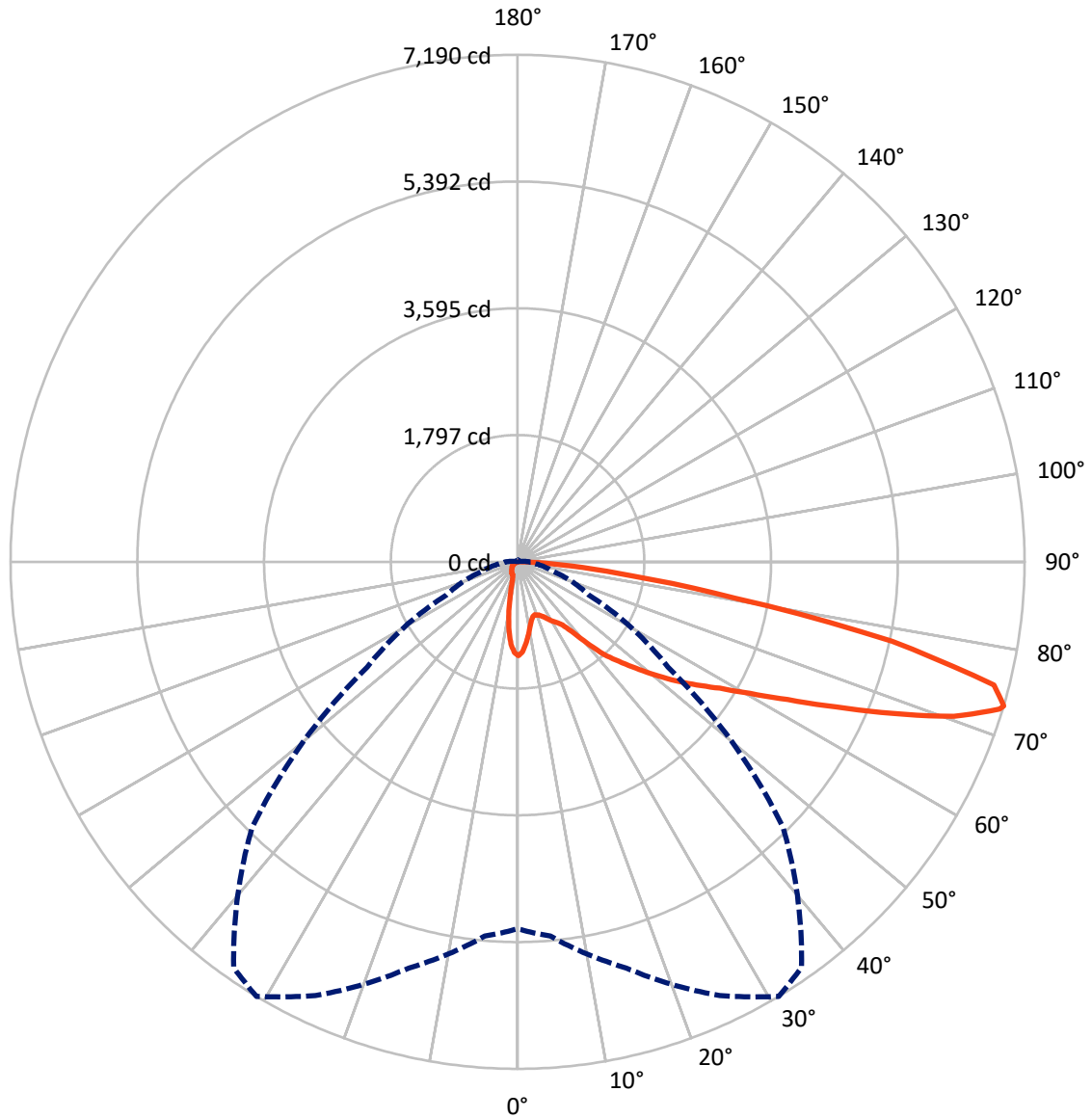
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	705.0	0.0	705.0
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	7029.6	0.0	7029.6
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	7734.7	0.0	7734.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.3	1.4
10°-20°	239.6	3.1
20°-30°	359.0	4.6
30°-40°	571.1	7.4
40°-50°	1019.8	13.2
50°-60°	1582.5	20.5
60°-70°	2103.7	27.2
70°-80°	1582.4	20.5
80°-90°	166.3	2.1
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°	7734.7	100.0
0°-180°	7734.7	100.0

**Coefficient of Utilization**



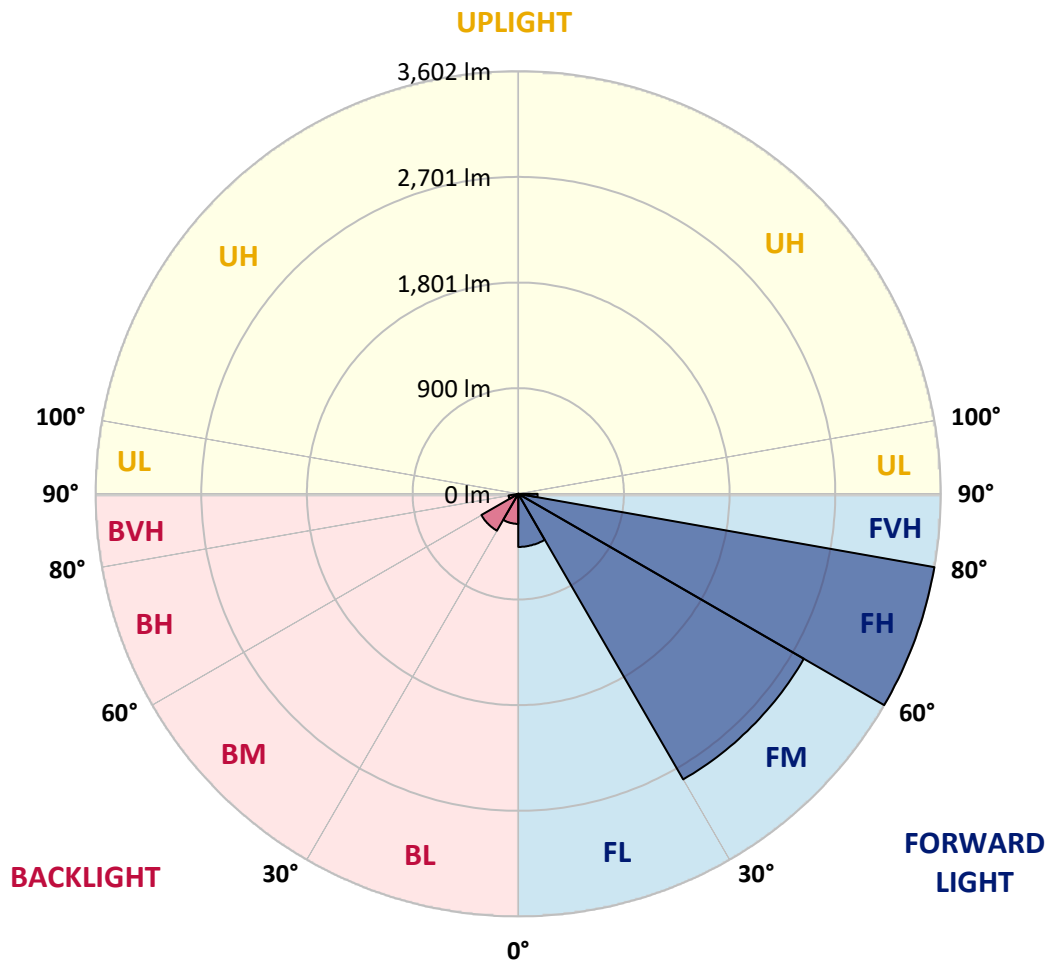
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	452.5	5.9			
FM (30°-60°)	2810.5	36.3			
FH (60°-80°)	3601.7	46.6			G2/5000
FVH (80°-90°)	164.9	2.1			G2/225
BL (0°-30°)	256.4	3.3	B1/500		
BM (30°-60°)	362.9	4.7	B1/1000		
BH (60°-80°)	84.4	1.1	B0/110		G0/110
BVH (80°-90°)	1.4	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	1330.7	1330.7	1330.7	1330.7	1330.7	1330.7	1330.7	1330.7	1330.7	1330.7	1330.7
2.5°	1261.1	1266.4	1272.1	1273.2	1282.6	1283.1	1296.7	1307.0	1317.1	1327.0	1330.3
5°	1131.6	1140.4	1150.6	1160.8	1180.9	1188.8	1222.1	1256.2	1288.7	1319.8	1334.9
7.5°	993.5	1003.4	1017.7	1043.1	1065.4	1081.0	1133.6	1194.2	1254.7	1311.8	1344.8
10°	867.5	876.6	891.7	918.6	953.1	974.2	1045.0	1129.0	1218.0	1304.6	1359.5
12.5°	787.3	792.2	800.5	829.3	860.3	884.1	967.4	1071.5	1187.7	1304.3	1383.3
15°	772.5	774.0	767.2	780.1	804.3	827.4	911.8	1025.0	1164.6	1310.3	1414.4
17.5°	795.9	795.2	772.5	770.9	790.3	809.2	884.5	992.8	1148.3	1324.3	1454.5
20°	831.5	828.9	789.5	782.3	802.8	820.6	882.6	980.6	1142.3	1347.8	1503.3
22.5°	878.8	874.4	812.6	805.0	827.0	845.6	906.1	992.4	1147.6	1379.2	1560.2
25°	937.5	930.7	852.4	844.0	866.3	884.9	948.1	1026.1	1163.5	1417.4	1632.1
27.5°	1003.7	993.9	915.9	894.4	919.7	939.0	1004.1	1077.5	1188.5	1458.0	1720.2
30°	1066.2	1053.3	983.0	947.4	978.4	999.9	1064.7	1138.9	1228.5	1520.4	1840.9
32.5°	1129.0	1114.7	1042.8	1000.3	1028.3	1051.8	1127.2	1223.3	1303.9	1615.8	2001.4
35°	1273.6	1258.4	1170.3	1100.3	1099.9	1113.1	1214.6	1338.7	1403.5	1748.6	2193.0
37.5°	1516.9	1508.3	1424.2	1291.4	1255.8	1241.1	1333.8	1476.5	1546.5	1931.4	2409.1
40°	1783.4	1775.9	1681.6	1561.3	1507.2	1470.8	1504.8	1668.4	1748.6	2154.8	2629.8
42.5°	2084.3	2048.4	1880.3	1844.4	1795.9	1768.3	1737.6	1904.9	1996.9	2397.7	2848.5
45°	2357.6	2297.0	2079.0	2024.5	2013.5	2020.3	2037.4	2222.9	2276.2	2686.5	3066.5
47.5°	2520.3	2472.7	2305.4	2253.1	2250.1	2295.1	2423.8	2582.1	2554.4	2938.2	3258.4
50°	2675.1	2632.0	2493.1	2506.0	2519.9	2581.3	2862.5	2951.4	2808.3	3166.4	3434.4
52.5°	2800.4	2734.6	2661.9	2734.2	2803.1	2901.9	3315.2	3283.0	2988.5	3348.1	3585.1
55°	2872.7	2842.8	2878.0	2950.7	3080.2	3240.6	3742.5	3558.9	3120.2	3513.9	3685.3
57.5°	3137.6	3079.0	3149.0	3211.9	3380.7	3605.1	4108.5	3764.5	3215.2	3616.5	3708.4
60°	3458.3	3411.0	3452.2	3556.6	3784.5	4048.3	4450.7	3932.1	3264.8	3682.3	3648.6
62.5°	3968.4	3906.0	3880.3	3997.2	4299.3	4587.2	4710.3	4048.3	3253.9	3653.2	3443.5
65°	4652.0	4587.2	4472.2	4578.2	4962.4	5165.6	5000.5	4072.9	3178.2	3417.4	2925.0
67.5°	5352.2	5305.3	5206.9	5385.5	5732.2	5797.7	5307.5	4013.1	2934.4	2770.9	2066.5
70°	5814.7	5794.6	5858.6	6253.8	6562.9	6544.0	5589.1	3691.7	2287.2	1704.0	1022.3
72.5°	5481.2	5577.4	6049.7	6766.2	7143.9	6989.5	5444.5	2834.9	1307.3	655.5	295.6
73°	5204.9	5328.0	5963.9	6785.5	7189.8	7020.5	5323.0	2602.1	1114.2	517.4	224.0
75°	3621.0	3772.0	4937.4	6319.6	6975.5	6689.0	4437.0	1592.7	516.3	229.3	90.5
77.5°	1758.1	1869.7	2718.6	4566.1	5424.9	5226.2	2762.2	593.5	233.2	143.5	41.6
80°	656.3	729.7	1180.1	2323.9	3135.0	3217.1	1214.9	224.4	155.2	115.4	21.2
82.5°	171.9	191.5	435.2	1036.3	1606.6	1681.6	383.1	113.2	113.6	95.0	12.9
85°	54.9	62.8	135.9	465.1	757.0	664.7	100.0	54.9	82.5	70.8	7.2
87.5°	6.8	8.7	43.1	109.4	166.9	92.7	15.6	16.3	35.2	39.4	4.2
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°	1330.7	1330.7	1330.7	1330.7	1330.7	1330.7	1330.7	1330.7	1330.7	1330.7	1330.7
2.5°	1333.8	1331.9	1332.3	1322.4	1316.0	1303.1	1289.9	1283.9	1277.4	1274.7	1277.4
5°	1340.6	1337.2	1327.4	1297.1	1264.9	1223.3	1184.3	1154.7	1117.7	1107.4	1118.0
7.5°	1351.2	1344.4	1315.6	1254.0	1182.4	1103.0	1013.6	948.5	895.1	860.7	873.1
10°	1366.7	1353.8	1296.0	1191.1	1063.2	922.4	795.5	696.8	626.7	598.1	596.8
12.5°	1392.8	1368.6	1271.7	1109.4	917.5	729.7	563.6	456.5	399.7	362.9	362.2
15°	1421.6	1386.0	1241.1	1011.3	747.8	522.7	362.9	281.6	244.9	233.2	231.7
17.5°	1456.8	1406.1	1201.3	890.6	570.4	346.3	236.9	213.5	211.9	210.8	210.8
20°	1501.1	1429.9	1150.2	752.4	404.6	231.2	201.4	202.9	203.6	202.1	202.5
22.5°	1552.5	1454.1	1089.3	604.1	273.7	193.4	192.6	194.5	195.3	194.5	194.9
25°	1612.3	1482.2	1015.1	448.5	197.6	183.6	185.5	188.1	190.0	190.0	190.0
27.5°	1686.6	1516.2	925.8	313.0	170.7	173.4	178.7	183.6	186.2	187.0	187.0
30°	1783.1	1558.6	818.6	214.6	155.2	159.8	169.5	179.0	184.0	184.7	185.1
32.5°	1904.9	1606.3	694.6	158.5	142.0	145.3	155.9	171.9	181.3	182.8	182.8
35°	2044.6	1661.6	560.9	138.1	132.5	133.6	142.0	160.1	176.7	180.9	181.3
37.5°	2197.5	1716.1	426.6	129.0	124.5	124.5	130.6	146.1	165.8	178.7	180.2
40°	2340.1	1749.0	299.0	121.8	117.4	117.4	122.6	134.0	152.5	171.9	176.0
42.5°	2471.9	1760.3	208.2	115.0	110.5	111.7	116.2	125.3	139.3	158.5	162.4
45°	2607.4	1758.5	151.7	107.1	103.7	107.1	110.5	117.4	127.5	138.5	139.3
47.5°	2709.6	1742.6	120.4	99.6	97.3	101.8	104.8	109.4	115.0	114.3	114.3
50°	2805.4	1704.0	96.9	89.3	90.8	96.1	97.6	99.2	99.6	92.3	91.6
52.5°	2878.0	1643.8	77.6	78.3	84.4	89.7	88.2	85.9	82.2	73.4	71.9
55°	2902.2	1527.9	60.9	64.7	74.9	81.8	76.1	71.2	64.0	56.7	55.2
57.5°	2858.4	1378.4	49.6	50.3	63.3	68.8	62.4	56.7	48.8	42.8	41.6
60°	2765.2	1212.3	40.9	37.8	48.8	53.8	49.6	43.9	36.7	32.1	31.8
62.5°	2580.5	1035.1	33.7	29.5	37.1	41.3	38.6	34.5	28.4	25.3	25.0
65°	2192.2	828.1	27.3	23.8	28.8	32.1	29.9	26.8	22.4	20.0	19.7
67.5°	1530.3	559.8	22.4	19.7	22.7	25.3	23.5	22.0	17.8	17.4	17.8
70°	738.1	269.9	18.5	15.9	17.8	19.7	18.9	17.8	17.0	19.7	22.7
72.5°	211.6	90.5	14.7	13.2	14.3	15.6	16.3	15.9	18.5	23.8	27.7
73°	162.7	73.0	14.0	12.5	13.6	15.2	15.9	15.6	18.9	24.2	27.7
75°	69.7	35.2	10.6	10.2	11.4	13.2	14.0	14.0	18.9	24.6	26.5
77.5°	31.4	18.9	6.8	7.9	9.9	10.6	11.7	11.7	15.2	18.9	18.9
80°	17.8	10.2	5.3	6.1	7.2	7.2	7.2	6.4	6.8	7.5	8.3
82.5°	11.4	6.8	4.2	4.9	4.6	3.8	3.1	3.1	2.6	3.1	3.8
85°	6.4	3.8	3.8	3.1	1.9	1.5	1.9	1.5	0.4	0.0	0.4
87.5°	3.8	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)