

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: P191899

Luminaire Tested: **GLEON-AF-01-LED-E1-SL2-7050-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191899  
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-01-LED-E1-SL2-7050-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE 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: 6697 lumens  
Efficiency: N/A  
Efficacy: 100.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 67  
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

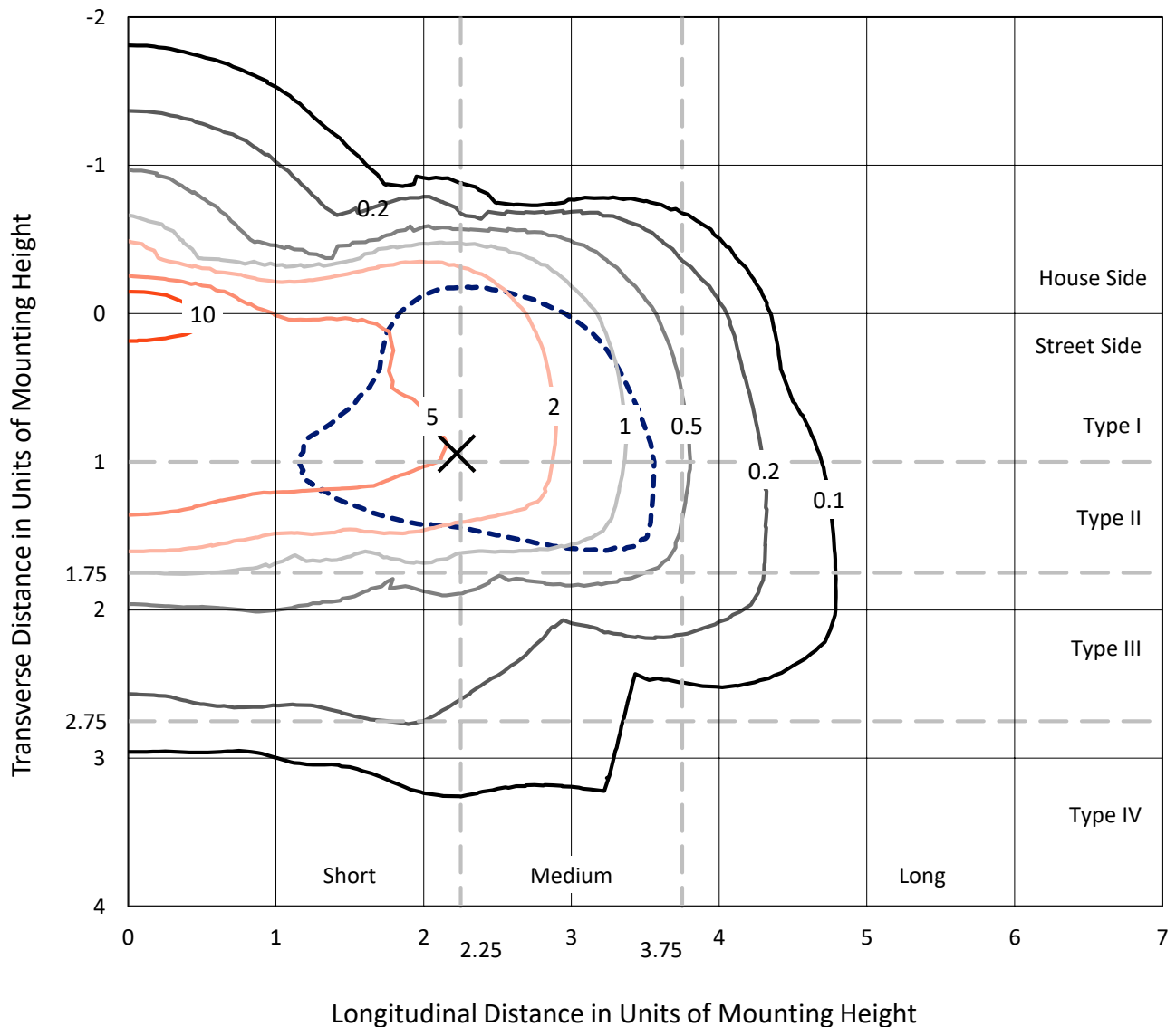


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

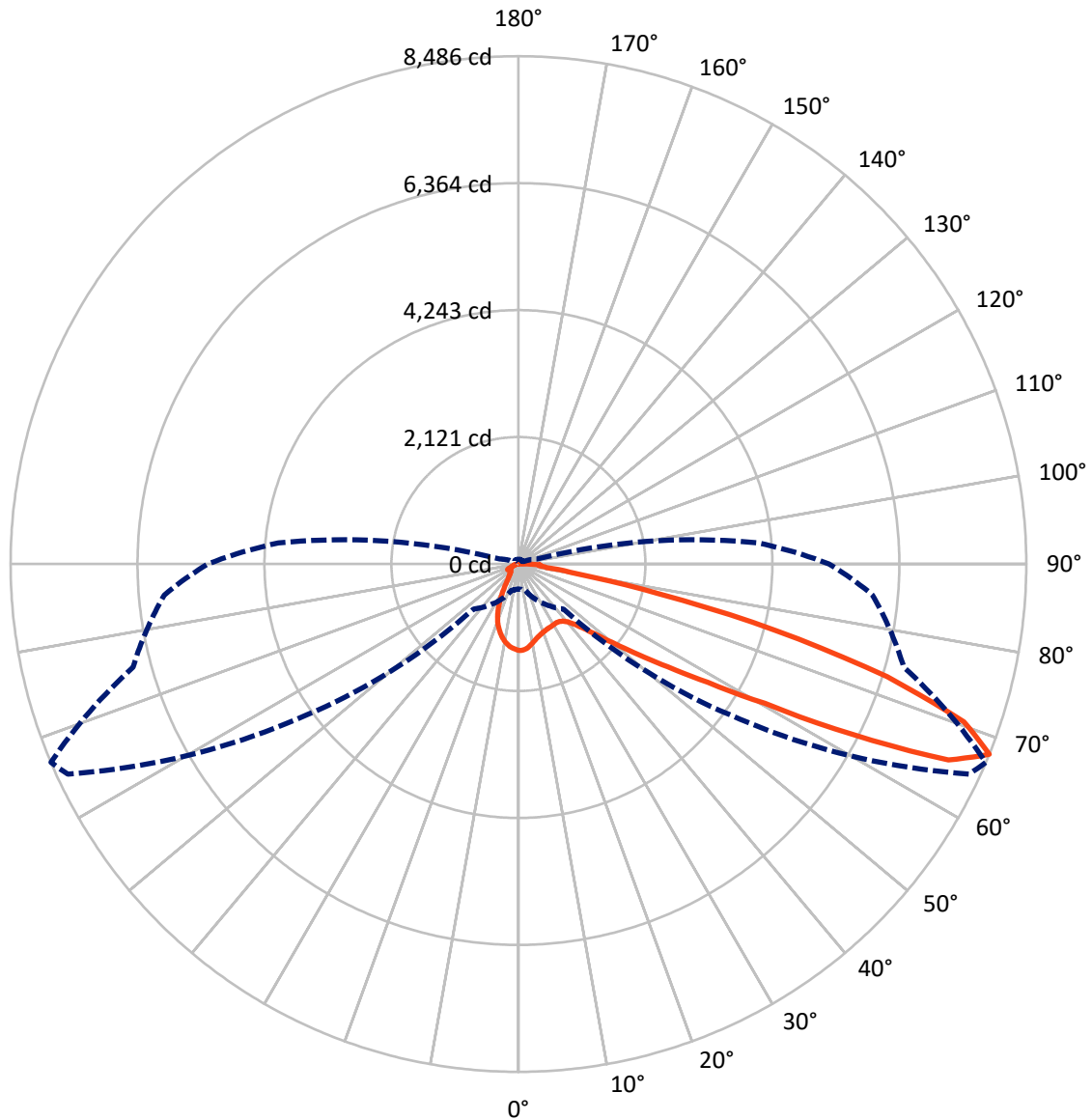


Based on 10 foot mounting height. Maximum calculated value = 14.4 fc  
 Type II - Short - Semi-Cutoff

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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	1109.6	0.0	1109.6
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	5587.4	0.0	5587.4
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	6697.0	0.0	6697.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.2	1.8
10°-20°	285.2	4.3
20°-30°	386.5	5.8
30°-40°	549.5	8.2
40°-50°	919.3	13.7
50°-60°	1454.4	21.7
60°-70°	1852.7	27.7
70°-80°	970.5	14.5
80°-90°	155.6	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°	6697.0	100.0
0°-180°	6697.0	100.0



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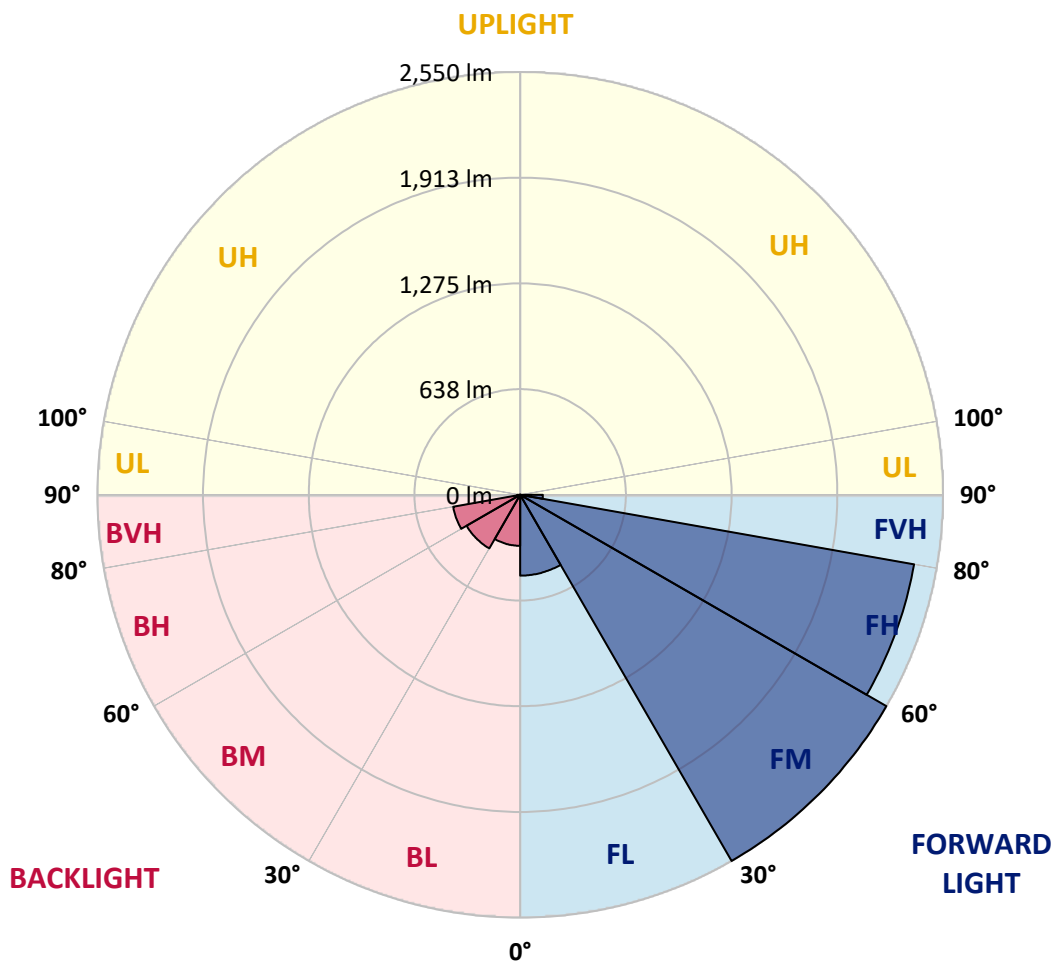
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	487.4	7.3			
FM (30°-60°)	2550.4	38.1			
FH (60°-80°)	2412.8	36.0			G2/5000
FVH (80°-90°)	136.9	2.0			G2/225
BL (0°-30°)	307.6	4.6	B1/500		
BM (30°-60°)	372.9	5.6	B1/1000		
BH (60°-80°)	410.4	6.1	B1/500		G1/500
BVH (80°-90°)	18.8	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°	1444.5	1444.5	1444.5	1444.5	1444.5	1444.5	1444.5	1444.5	1444.5	1444.5	1444.5
2.5°	1385.1	1387.4	1394.7	1399.3	1420.1	1429.0	1435.3	1441.6	1442.5	1445.5	1442.5
5°	1239.8	1244.7	1258.3	1273.5	1313.7	1345.5	1378.8	1413.5	1419.8	1442.2	1448.5
7.5°	1127.2	1125.8	1137.1	1155.2	1196.5	1240.4	1298.9	1367.9	1381.4	1432.0	1456.4
10°	1044.9	1043.9	1055.8	1074.6	1113.9	1155.6	1221.6	1316.1	1335.2	1415.8	1464.0
12.5°	984.2	984.5	996.4	1017.2	1057.1	1099.1	1166.1	1265.9	1290.3	1397.0	1471.9
15°	943.9	946.5	956.1	978.2	1017.2	1059.1	1124.8	1228.2	1255.6	1382.1	1480.9
17.5°	930.3	934.6	937.9	954.1	987.5	1029.4	1093.8	1200.5	1229.5	1371.9	1488.8
20°	942.9	947.8	941.6	947.2	968.3	1005.3	1069.4	1178.7	1208.4	1360.3	1489.8
22.5°	996.7	1001.3	982.8	966.7	965.3	987.8	1049.2	1161.5	1192.2	1351.7	1490.1
25°	1091.5	1094.5	1063.4	1025.8	989.1	981.5	1035.0	1149.6	1182.3	1344.1	1483.8
27.5°	1207.7	1210.0	1174.4	1118.9	1045.3	996.4	1030.1	1142.7	1176.7	1337.5	1473.3
30°	1349.1	1360.0	1312.1	1242.1	1134.7	1040.3	1040.0	1139.0	1170.4	1326.3	1452.5
32.5°	1493.7	1498.4	1465.3	1394.3	1255.3	1117.6	1067.7	1141.7	1168.8	1312.8	1426.0
35°	1640.4	1646.3	1624.8	1567.7	1420.1	1230.9	1121.9	1157.2	1179.0	1308.1	1407.5
37.5°	1830.3	1838.2	1808.5	1742.4	1620.6	1384.4	1212.0	1196.2	1210.4	1321.3	1401.9
40°	2130.5	2126.8	2040.0	1941.6	1839.8	1580.9	1340.8	1262.2	1270.5	1363.9	1419.1
42.5°	2479.9	2471.0	2321.3	2166.8	2080.9	1818.7	1511.2	1376.8	1375.2	1447.8	1479.5
45°	2758.6	2751.3	2616.6	2426.0	2357.3	2089.5	1731.5	1547.6	1535.3	1580.9	1591.2
47.5°	2909.5	2909.9	2832.2	2676.7	2675.0	2433.6	2014.5	1794.6	1773.5	1794.9	1784.0
50°	2856.7	2863.6	2855.4	2805.8	2965.0	2884.8	2384.1	2139.0	2096.4	2117.6	2075.6
52.5°	2601.1	2610.0	2658.9	2734.8	3086.9	3430.0	2927.0	2567.1	2517.5	2509.9	2463.4
55°	2148.0	2158.9	2258.6	2465.0	2985.5	3796.3	3783.7	3112.6	3033.7	2962.0	2942.2
57.5°	1480.5	1498.7	1659.2	1965.7	2657.5	3906.9	4803.9	3890.4	3729.9	3479.5	3484.2
60°	834.5	855.7	1044.9	1323.3	1995.7	3786.7	5580.0	5068.4	4729.6	4085.6	4119.9
62.5°	530.7	553.5	697.2	919.4	1197.5	3139.4	5898.0	6706.1	6275.8	4832.6	4866.3
65°	429.7	439.6	507.3	758.9	869.6	1891.4	5656.6	8055.2	7894.7	5780.7	5623.5
67.5°	419.4	422.7	457.7	637.1	833.9	1063.1	4511.9	8307.5	8485.5	6666.2	5938.9
70°	414.5	426.0	515.9	608.0	798.6	896.6	2711.4	7616.0	7897.0	6897.7	5519.2
72.5°	201.1	200.5	259.6	549.9	899.6	930.0	1393.0	6162.2	6444.2	5975.9	4535.4
75°	162.2	148.3	141.7	201.5	864.9	960.4	887.7	4240.1	4444.2	4006.6	2788.0
77.5°	153.9	137.4	125.8	126.2	365.6	1018.5	752.0	2346.8	2406.2	1809.8	763.9
80°	127.5	112.3	104.0	117.2	177.0	970.0	813.1	1062.1	974.6	444.5	254.3
82.5°	88.5	80.6	78.3	98.4	141.7	691.2	945.5	570.7	478.5	222.6	156.9
85°	56.5	48.2	53.5	71.7	110.3	319.0	973.9	444.9	353.7	141.3	88.5
87.5°	26.1	21.1	26.4	39.6	72.0	110.0	926.7	499.7	364.3	74.6	55.8
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°	1444.5	1444.5	1444.5	1444.5	1444.5	1444.5	1444.5	1444.5	1444.5	1444.5	1444.5
2.5°	1445.2	1438.9	1434.0	1424.7	1414.5	1404.6	1395.6	1384.4	1381.1	1378.1	1382.8
5°	1449.8	1443.5	1425.4	1397.0	1365.6	1336.2	1306.8	1281.7	1266.2	1257.6	1262.6
7.5°	1456.7	1447.8	1410.2	1358.0	1301.5	1250.0	1196.8	1154.2	1122.9	1108.0	1112.3
10°	1463.0	1445.8	1384.4	1306.2	1223.6	1147.0	1063.1	993.7	942.2	915.1	921.7
12.5°	1465.7	1438.3	1348.4	1241.4	1128.1	1015.9	892.3	788.6	714.7	687.6	682.0
15°	1468.3	1429.7	1308.8	1167.8	1012.9	854.0	681.0	556.8	495.4	481.8	478.9
17.5°	1469.0	1414.8	1263.9	1087.9	877.8	661.5	465.7	386.7	387.1	408.9	411.5
20°	1462.0	1392.7	1209.4	988.4	716.0	457.4	319.7	306.1	356.0	410.5	417.1
22.5°	1446.2	1363.3	1147.6	872.5	530.7	301.2	247.4	262.2	326.6	393.3	400.9
25°	1426.0	1327.6	1074.6	738.1	351.4	215.3	207.4	225.6	269.2	313.7	318.0
27.5°	1398.6	1285.3	992.7	584.2	228.2	177.3	182.6	194.8	212.7	232.5	234.5
30°	1363.3	1234.8	905.2	426.0	172.4	159.5	167.1	173.7	181.3	192.5	193.5
32.5°	1322.7	1186.3	815.4	294.3	152.9	150.3	156.2	159.5	165.5	172.4	173.1
35°	1288.6	1140.0	722.3	208.1	144.7	143.3	147.3	148.6	154.2	161.8	162.5
37.5°	1269.2	1102.4	626.2	167.8	139.0	137.1	139.4	139.4	147.3	158.5	160.2
40°	1270.5	1081.6	530.1	151.6	134.4	131.8	132.1	132.1	142.3	154.6	155.5
42.5°	1306.5	1086.9	444.9	145.3	130.8	127.8	126.2	127.1	135.7	143.7	144.3
45°	1391.0	1124.2	364.9	141.3	127.1	126.2	122.5	122.2	125.5	129.1	129.1
47.5°	1529.7	1197.8	310.8	138.7	124.2	123.8	119.6	115.3	114.9	116.2	116.2
50°	1755.3	1324.6	274.4	135.7	122.2	119.6	114.6	108.0	105.7	106.7	106.7
52.5°	2093.5	1550.9	260.6	131.8	117.9	113.6	108.0	101.4	99.4	99.7	99.7
55°	2537.0	1898.3	258.6	127.1	113.3	106.3	101.7	96.8	94.5	95.1	95.1
57.5°	3078.9	2378.8	293.9	119.9	107.0	99.1	96.4	93.1	91.5	92.5	92.1
60°	3737.8	3007.6	435.9	112.3	100.7	92.5	92.5	89.8	88.5	89.5	89.2
62.5°	4496.7	3729.9	612.9	106.7	94.1	87.2	88.5	87.2	85.9	86.5	86.2
65°	5169.8	4200.5	574.0	102.4	87.5	82.2	84.5	83.9	82.9	83.6	83.2
67.5°	5189.3	4026.1	322.3	97.8	81.2	77.3	80.6	80.3	79.6	80.3	79.9
70°	4631.1	3399.6	181.6	89.2	74.6	71.3	76.0	75.6	75.0	76.3	76.0
72.5°	3710.4	2467.0	132.8	78.6	68.0	65.1	70.3	70.0	70.0	72.0	71.0
75°	2135.1	1269.5	106.0	67.4	61.1	58.8	63.4	63.7	64.4	67.0	65.1
77.5°	608.7	395.6	86.5	57.1	52.5	51.5	56.1	56.8	57.1	60.1	57.5
80°	226.2	182.3	71.3	47.9	42.9	43.3	47.6	48.5	48.9	51.8	48.5
82.5°	144.3	120.2	57.8	37.0	33.7	33.4	38.6	40.0	40.0	40.3	38.3
85°	84.2	72.0	43.6	26.8	23.8	22.8	28.7	31.0	30.1	29.4	28.1
87.5°	56.5	49.5	26.8	14.9	12.9	12.2	16.8	18.5	17.8	16.8	15.9
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)