

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: P323645

Luminaire Tested: **GLEON-SA1C-827-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323645  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA1C-827-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4650 lumens  
Efficiency: N/A  
Efficacy: 78.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

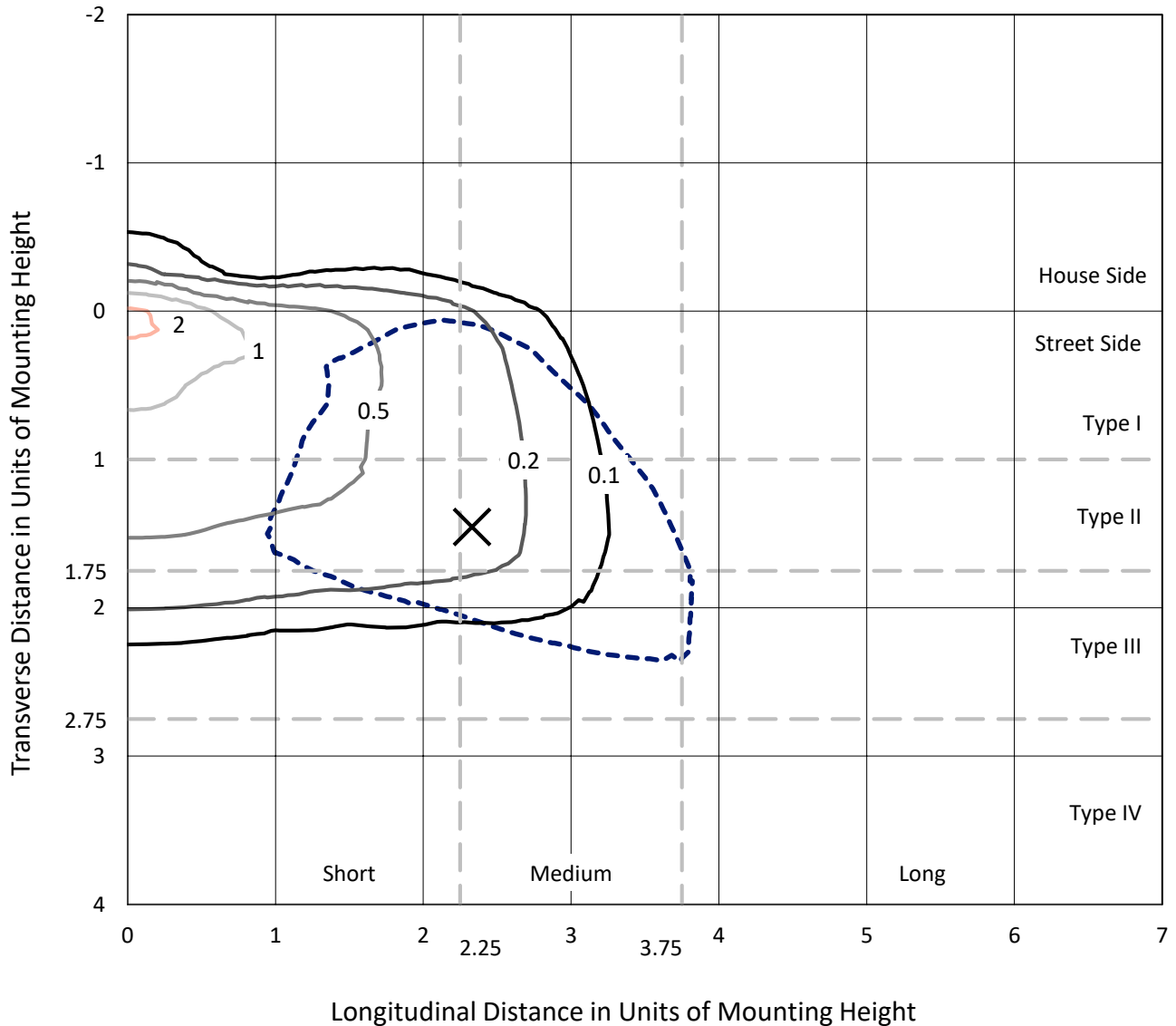
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

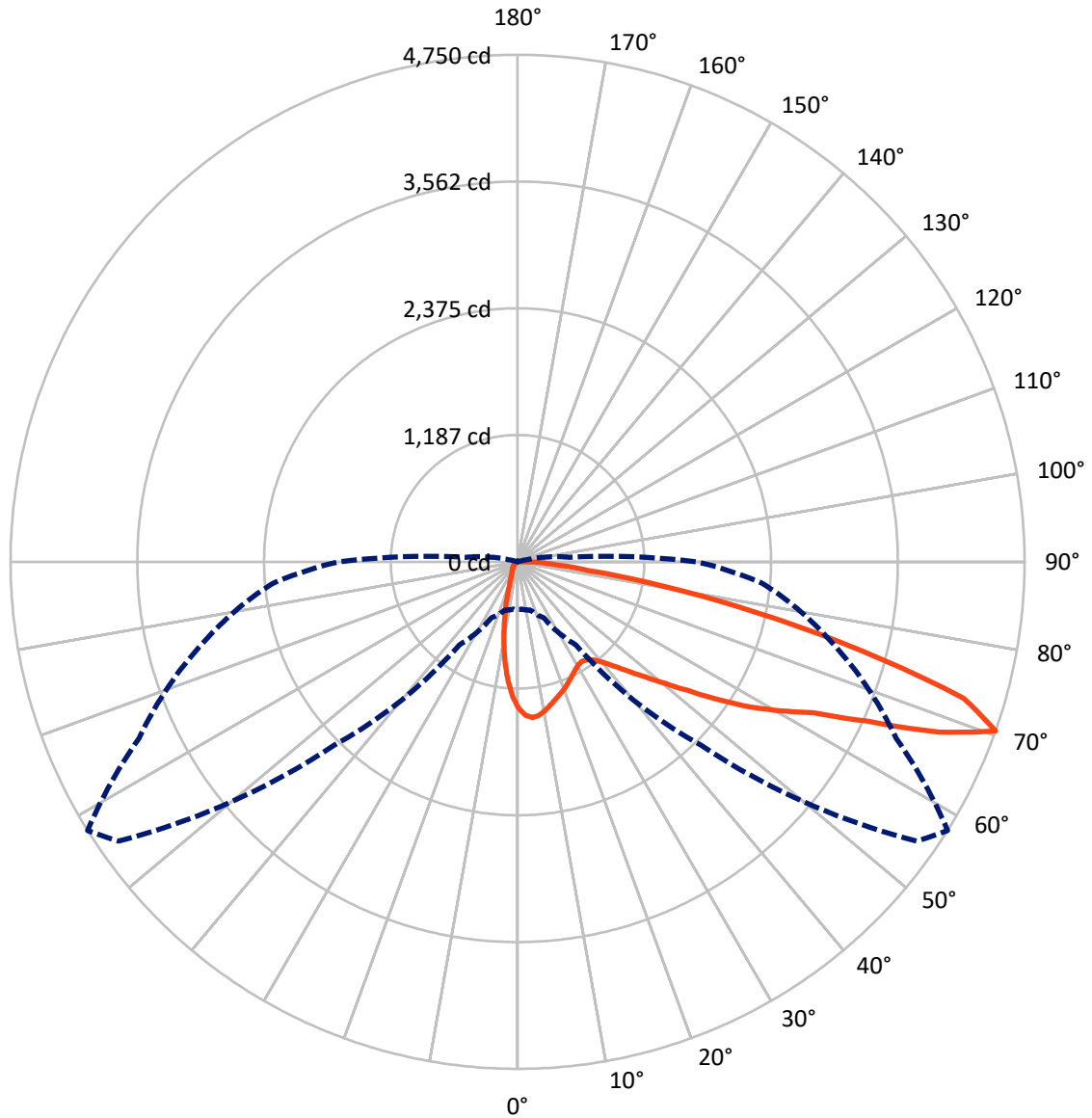
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	397.9	0.0	397.9
	% Fixture	8.6	0.0	8.6
<b>Street Side</b>	Lumens	4252.1	0.0	4252.1
	% Fixture	91.4	0.0	91.4
<b>Total</b>	Lumens	4650.0	0.0	4650.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.3	2.4
10°-20°	235.7	5.1
20°-30°	309.9	6.7
30°-40°	410.5	8.8
40°-50°	613.5	13.2
50°-60°	982.8	21.1
60°-70°	1238.8	26.6
70°-80°	668.2	14.4
80°-90°	78.2	1.7
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°	4650.0	100.0
0°-180°	4650.0	100.0

**Coefficient of Utilization**

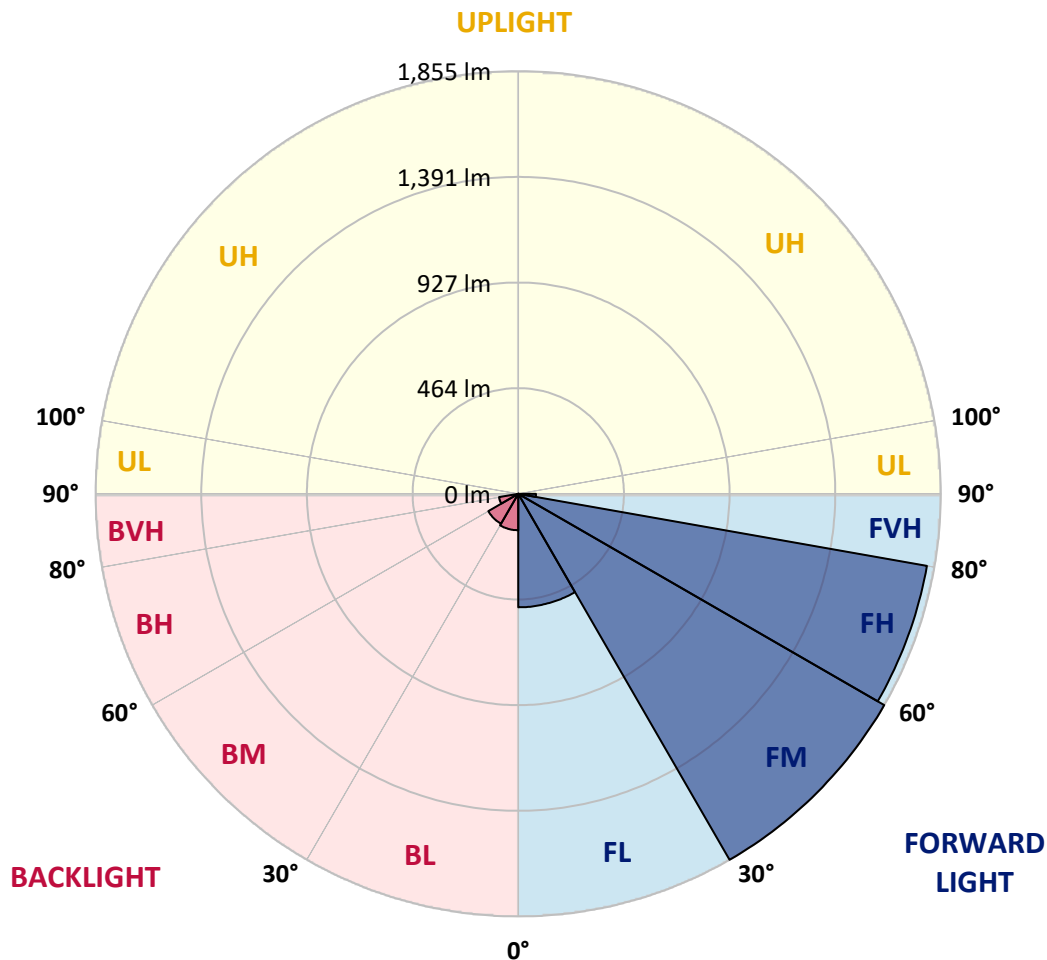


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	498.1	10.7			
FM (30°-60°)	1855.0	39.9			
FH (60°-80°)	1821.5	39.2			G2/5000
FVH (80°-90°)	77.5	1.7			G1/100
BL (0°-30°)	159.9	3.4	B1/500		
BM (30°-60°)	151.8	3.3	B0/220		
BH (60°-80°)	85.6	1.8	B0/110		G0/110
BVH (80°-90°)	0.7	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1373.6	1373.6	1373.6	1373.6	1373.6	1373.6	1373.6	1373.6	1373.6	1373.6	1373.6
2.5°	1487.5	1483.8	1482.4	1480.1	1471.2	1462.5	1445.3	1440.5	1429.7	1403.9	1376.7
5°	1488.6	1488.4	1492.5	1491.5	1488.4	1484.4	1472.0	1465.6	1447.3	1410.5	1360.6
7.5°	1416.9	1420.6	1429.7	1437.0	1445.5	1456.5	1458.1	1451.9	1436.8	1397.2	1331.1
10°	1320.6	1326.4	1339.2	1353.7	1375.9	1398.0	1417.7	1416.9	1411.7	1372.6	1295.5
12.5°	1224.1	1230.9	1245.6	1267.0	1298.6	1334.5	1369.7	1374.6	1383.3	1350.6	1262.6
15°	1139.6	1145.4	1159.9	1186.2	1225.3	1273.6	1325.2	1334.1	1356.6	1333.4	1235.1
17.5°	1067.9	1071.6	1082.2	1111.4	1156.6	1215.2	1282.3	1299.7	1333.2	1319.8	1211.4
20°	1017.8	1018.4	1025.4	1045.9	1091.1	1156.6	1237.9	1262.8	1308.4	1308.2	1186.8
22.5°	993.1	991.1	992.5	1004.3	1037.5	1100.8	1193.4	1223.0	1286.2	1298.4	1161.9
25°	988.4	986.9	983.0	984.6	1004.7	1051.8	1148.5	1182.7	1266.7	1292.4	1140.2
27.5°	1002.9	1004.5	997.9	990.9	992.5	1020.1	1108.7	1148.3	1250.8	1292.4	1124.9
30°	1032.1	1032.9	1028.1	1019.0	1006.8	1011.2	1081.0	1120.7	1242.9	1301.3	1115.3
32.5°	1064.4	1068.7	1068.1	1060.7	1043.3	1025.4	1074.5	1110.6	1242.3	1321.0	1114.3
35°	1104.4	1109.3	1117.4	1115.8	1097.7	1068.1	1096.9	1125.3	1253.7	1353.5	1124.7
37.5°	1147.0	1154.3	1171.7	1180.0	1168.2	1134.8	1147.2	1167.5	1284.3	1406.1	1151.2
40°	1188.2	1196.5	1228.2	1260.9	1252.0	1217.6	1223.4	1239.6	1338.6	1481.7	1201.5
42.5°	1228.6	1240.9	1287.5	1341.3	1351.9	1324.5	1327.6	1340.5	1419.2	1585.7	1283.7
45°	1276.9	1290.8	1359.9	1426.2	1454.6	1442.6	1455.8	1464.3	1524.6	1723.2	1394.5
47.5°	1347.9	1363.9	1448.6	1524.2	1574.1	1581.8	1608.3	1613.9	1657.8	1883.3	1538.9
50°	1486.3	1490.8	1567.3	1636.0	1707.9	1754.3	1784.5	1788.7	1819.1	2058.3	1719.3
52.5°	1660.5	1663.4	1706.7	1752.8	1834.5	1929.3	1999.9	2005.9	2012.2	2228.8	1897.4
55°	1833.6	1833.2	1861.8	1888.9	1982.5	2120.1	2273.3	2276.9	2231.1	2390.6	2033.5
57.5°	1941.7	1952.1	1995.6	2030.4	2161.1	2337.7	2550.1	2563.7	2461.0	2510.5	2168.1
60°	1907.2	1912.3	2008.8	2137.5	2383.7	2646.8	2830.3	2833.8	2633.9	2630.2	2338.2
62.5°	1624.9	1627.7	1779.2	2044.7	2496.4	3047.8	3168.3	3111.6	2832.6	2796.3	2541.8
65°	1113.7	1131.3	1258.0	1586.1	2289.3	3299.4	3691.5	3597.7	3135.6	3035.7	2725.9
67.5°	655.9	652.2	714.8	956.5	1681.4	3132.3	4353.4	4260.2	3548.8	3196.0	2672.0
70°	448.0	445.5	469.5	579.1	949.2	2429.9	4561.6	4749.7	3913.7	3088.1	2299.6
72.5°	319.8	321.2	356.5	449.9	595.9	1415.7	3922.8	4368.1	3799.4	2692.1	1747.9
75°	217.1	220.8	271.5	369.1	522.4	720.2	2783.7	3320.5	3093.9	1956.6	1004.7
77.5°	116.8	120.8	180.6	297.4	472.4	500.4	1790.7	2285.3	1943.4	879.6	291.2
80°	48.7	51.0	84.5	216.2	408.2	439.5	1053.6	1385.8	828.1	173.4	65.0
82.5°	21.1	22.2	35.2	129.0	305.1	371.0	557.8	666.7	251.0	38.1	32.7
85°	4.1	4.3	14.5	68.3	194.7	209.4	361.6	354.4	112.7	16.4	23.8
87.5°	0.0	0.0	3.5	21.5	57.2	114.1	220.6	217.9	38.3	7.9	8.9
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°	1373.6	1373.6	1373.6	1373.6	1373.6	1373.6	1373.6	1373.6	1373.6	1373.6	1373.6
2.5°	1362.8	1349.4	1321.4	1286.8	1260.3	1231.1	1207.9	1178.5	1165.7	1166.3	1159.4
5°	1332.2	1304.8	1242.7	1164.4	1104.1	1041.8	988.2	934.9	903.4	893.1	883.4
7.5°	1288.5	1245.0	1146.0	1025.4	923.3	823.5	736.7	660.3	612.0	588.4	579.7
10°	1239.2	1178.1	1034.8	875.9	730.1	595.1	482.6	384.8	345.7	319.2	312.5
12.5°	1195.9	1113.1	926.2	722.6	549.5	386.7	279.4	218.5	192.0	181.6	179.8
15°	1155.1	1052.4	821.6	583.7	380.5	238.0	177.7	157.0	150.8	149.1	149.1
17.5°	1116.6	994.6	719.3	447.0	251.7	166.9	147.1	142.5	140.6	140.4	140.6
20°	1076.4	936.8	618.7	327.5	175.8	141.3	135.9	133.4	132.8	132.8	132.8
22.5°	1037.9	879.0	520.9	234.0	141.0	129.0	126.3	124.5	123.9	123.7	123.4
25°	1001.0	824.1	425.4	165.3	123.7	118.1	115.8	113.5	111.8	110.8	110.2
27.5°	970.6	775.2	336.4	132.6	111.8	106.9	104.0	100.5	96.3	94.4	93.6
30°	946.5	730.5	259.3	112.0	100.5	95.7	91.3	85.3	79.1	75.8	75.6
32.5°	927.5	686.6	196.8	99.0	90.5	84.5	78.1	70.6	63.4	59.7	59.6
35°	918.2	647.9	150.4	89.5	81.6	74.1	66.1	57.8	50.9	47.4	47.0
37.5°	924.4	615.3	117.4	81.6	74.1	65.4	56.1	47.4	41.2	38.1	37.9
40°	947.0	594.4	95.3	74.8	67.7	57.0	47.0	38.9	33.6	31.1	30.9
42.5°	995.2	586.6	81.4	69.2	61.5	49.3	39.1	32.1	27.3	25.5	25.1
45°	1075.6	598.0	71.9	63.8	55.1	42.0	32.3	26.3	22.0	20.7	20.5
47.5°	1182.7	628.0	65.2	58.6	49.3	35.4	26.9	21.3	18.0	16.6	16.4
50°	1320.8	675.6	59.6	53.4	43.9	30.0	22.2	16.8	13.9	13.0	13.0
52.5°	1471.0	732.2	54.5	48.5	38.5	24.9	18.0	13.0	11.0	9.9	9.9
55°	1595.2	781.7	49.1	44.9	31.9	20.7	13.7	9.9	8.1	7.5	7.5
57.5°	1719.1	834.5	42.9	38.5	25.5	16.8	10.4	7.3	6.0	5.6	5.6
60°	1879.8	899.1	36.9	31.3	20.1	12.8	7.7	5.2	4.4	4.3	4.3
62.5°	2056.5	937.0	31.5	25.1	15.7	9.5	5.6	3.5	3.3	3.3	3.1
65°	2164.6	883.4	26.5	20.1	12.2	7.2	3.7	2.5	2.9	2.7	2.3
67.5°	2026.7	691.6	21.7	15.7	9.5	5.4	2.3	1.7	3.1	2.5	1.9
70°	1678.1	484.2	16.8	11.0	7.5	4.6	1.5	1.2	3.3	2.5	1.5
72.5°	1255.8	324.1	13.3	7.3	5.6	4.1	1.4	0.6	2.9	2.1	1.4
75°	686.2	130.5	10.6	4.6	3.5	2.9	1.0	0.4	1.9	1.5	1.0
77.5°	180.6	34.4	7.7	3.1	1.9	1.2	0.6	0.2	1.0	0.8	0.4
80°	46.0	13.3	5.0	2.1	1.4	0.6	0.0	0.0	0.2	0.0	0.0
82.5°	24.6	5.6	3.1	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.6	3.7	1.7	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.2	1.2	0.6	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)