

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: P527619

Luminaire Tested: **GALN-SA2C-827-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527619
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-827-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6206 lumens
Efficiency: N/A
Efficacy: 57.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

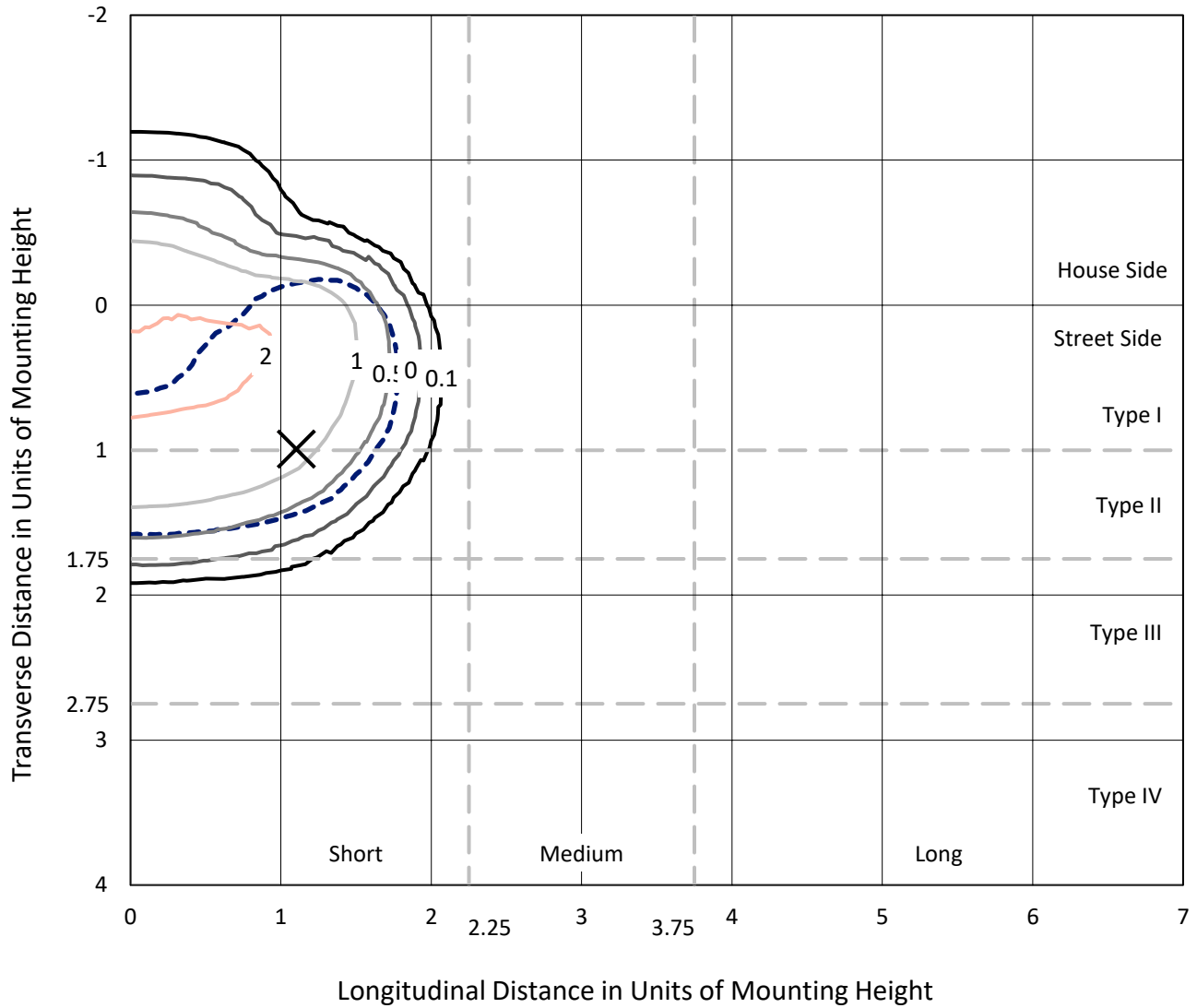
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

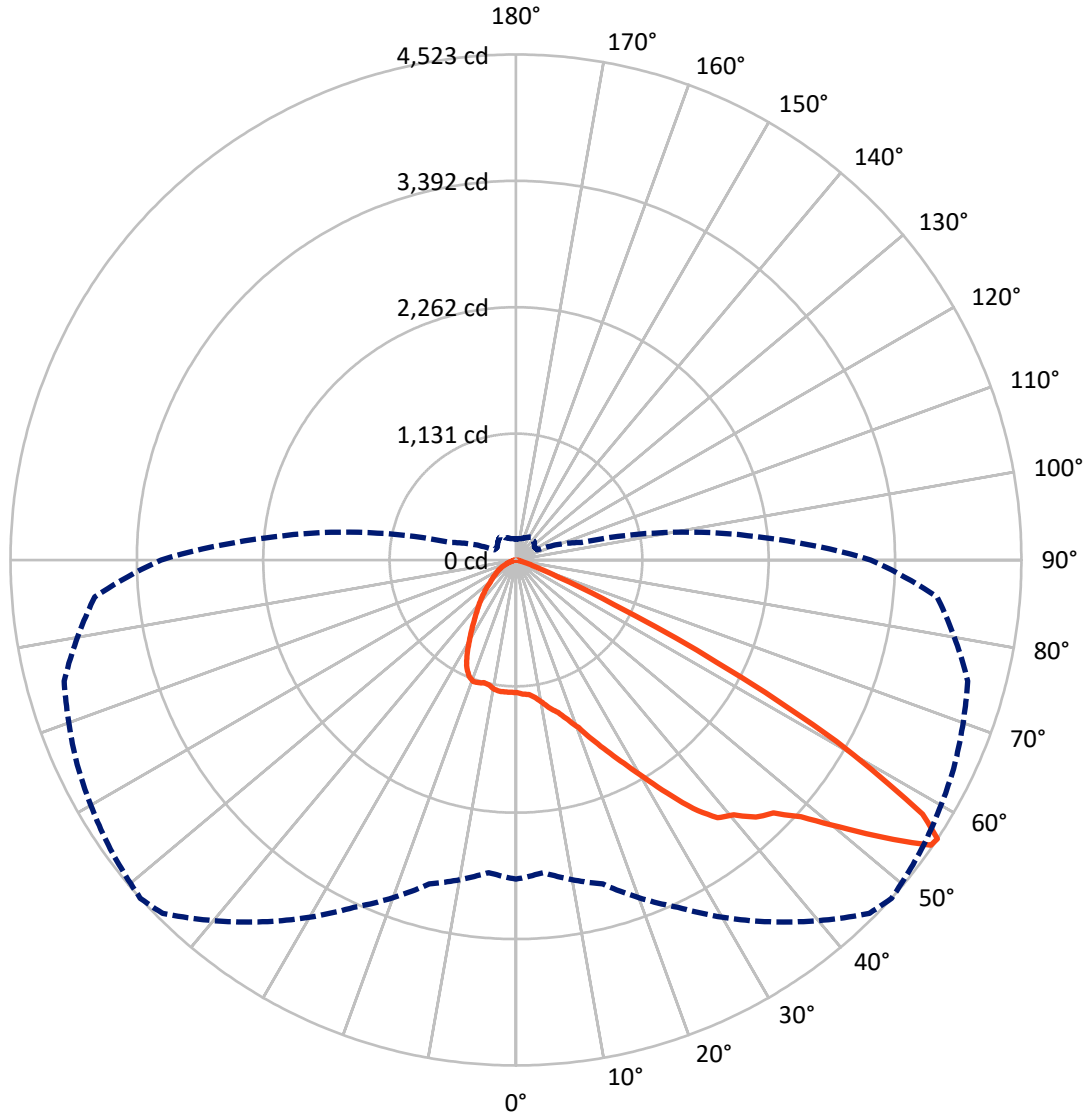
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1349.7	0.0	1349.7
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	4856.3	0.0	4856.3
	% Fixture	78.3	0.0	78.3
Total	Lumens	6206.0	0.0	6206.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.5	1.9
10°-20°	369.0	5.9
20°-30°	669.3	10.8
30°-40°	1051.4	16.9
40°-50°	1533.7	24.7
50°-60°	1847.8	29.8
60°-70°	541.0	8.7
70°-80°	68.6	1.1
80°-90°	9.6	0.2
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°	6206.0	100.0
0°-180°	6206.0	100.0

Coefficient of Utilization

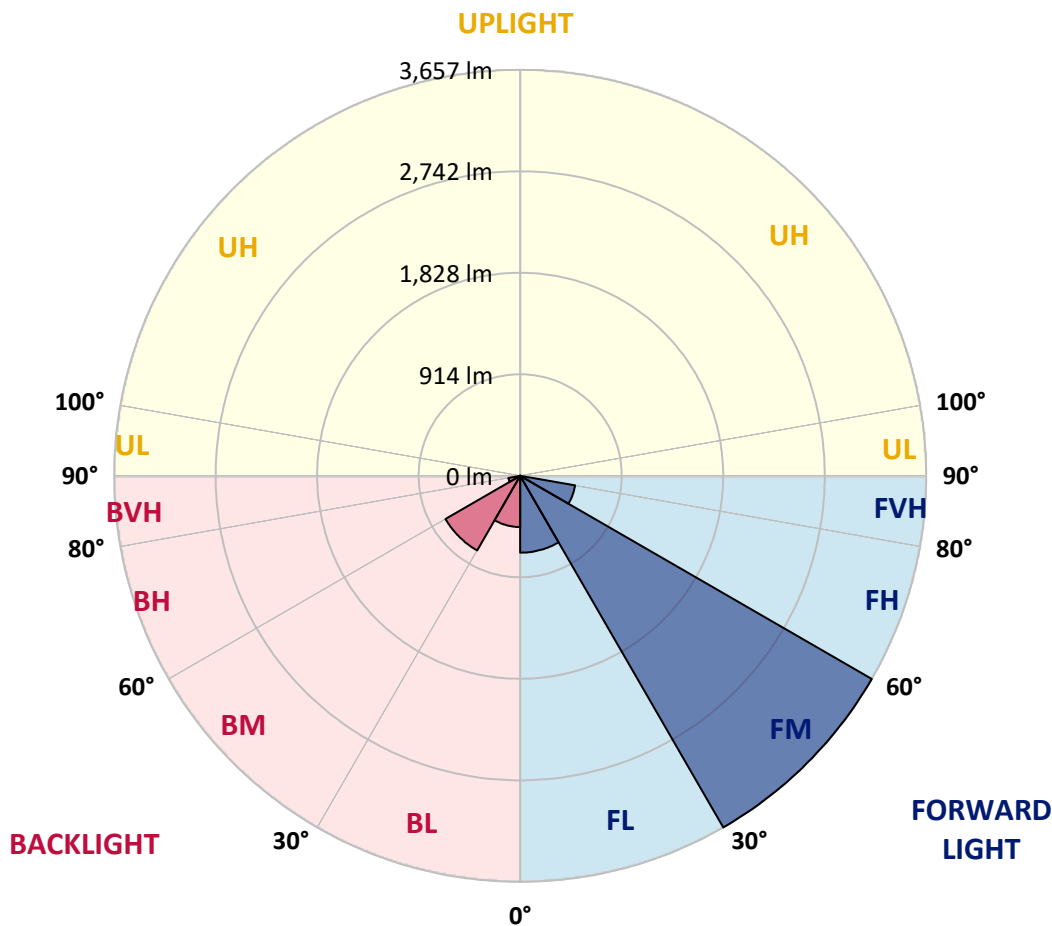


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	692.5	11.2			
FM (30°-60°)	3656.6	58.9			
FH (60°-80°)	502.4	8.1			G0/660
FVH (80°-90°)	4.8	0.1			G0/10
BL (0°-30°)	461.3	7.4	B1/500		
BM (30°-60°)	776.3	12.5	B1/1000		
BH (60°-80°)	107.2	1.7	B0/110		G0/110
BVH (80°-90°)	4.8	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-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	1185.3	1185.3	1185.3	1185.3	1185.3	1185.3	1185.3	1185.3	1185.3	1185.3	1185.3
2.5°	1206.8	1201.2	1201.2	1192.1	1202.3	1197.8	1201.2	1189.9	1201.2	1184.2	1197.8
5°	1212.5	1213.6	1209.1	1214.7	1214.7	1221.5	1210.2	1220.4	1226.0	1213.6	1207.9
7.5°	1241.8	1244.1	1243.0	1238.5	1247.5	1246.4	1245.2	1237.3	1239.6	1235.1	1228.3
10°	1299.5	1298.3	1304.0	1292.7	1285.9	1293.8	1296.1	1283.7	1274.6	1271.2	1249.8
12.5°	1383.1	1369.5	1361.6	1350.3	1353.7	1342.4	1362.8	1341.3	1336.8	1316.4	1295.0
15°	1450.9	1448.6	1449.8	1431.7	1411.3	1415.9	1415.9	1404.6	1397.8	1372.9	1342.4
17.5°	1589.9	1542.4	1552.6	1530.0	1513.0	1511.9	1501.7	1504.0	1485.9	1433.9	1387.6
20°	1698.4	1678.0	1662.2	1623.8	1597.8	1605.7	1601.2	1589.9	1584.2	1516.4	1450.9
22.5°	1795.5	1802.3	1776.3	1766.2	1730.0	1733.4	1742.4	1732.3	1689.3	1619.3	1522.1
25°	1932.3	1924.4	1889.3	1876.9	1843.0	1855.4	1890.5	1882.5	1855.4	1728.9	1577.5
27.5°	2093.9	2066.7	2073.5	2017.0	1984.2	2019.3	2061.1	2100.6	2023.8	1857.7	1643.0
30°	2208.0	2179.7	2177.5	2175.2	2167.3	2208.0	2256.6	2292.7	2230.6	1986.5	1751.5
32.5°	2264.5	2271.3	2290.5	2283.7	2352.6	2436.2	2487.1	2539.1	2461.1	2196.7	1895.0
35°	2414.8	2371.8	2414.8	2419.3	2490.5	2667.9	2732.3	2856.6	2837.4	2493.9	2070.1
37.5°	2502.9	2499.5	2505.2	2548.1	2617.0	2836.2	2927.8	3023.8	2987.7	2672.4	2288.2
40°	2648.7	2657.7	2656.6	2689.4	2765.1	2962.8	3000.1	3078.1	3081.5	2919.9	2609.1
42.5°	2882.6	2846.4	2822.7	2856.6	2962.8	3072.4	3147.0	3131.2	3243.0	3220.4	3021.6
45°	3092.8	3114.2	3079.2	3135.7	3174.1	3232.9	3230.6	3264.5	3406.9	3514.2	3332.3
47.5°	3289.4	3302.9	3319.9	3358.3	3441.9	3451.0	3431.7	3417.1	3613.7	3724.4	3573.0
50°	3406.9	3419.3	3498.4	3567.3	3723.3	3743.6	3754.9	3717.6	3851.0	3863.4	3800.1
52.5°	3375.2	3388.8	3499.5	3726.7	3975.3	4161.7	4127.8	4064.5	4056.6	4105.2	4010.3
55°	3095.0	3082.6	3235.1	3588.8	4054.4	4501.8	4506.4	4439.7	4312.0	4279.2	3978.7
56°	2856.6	2808.0	3002.4	3429.5	3952.7	4472.5	4523.3	4452.1	4332.3	4185.4	3783.2
57.5°	2340.2	2386.5	2579.7	2933.4	3601.2	4261.2	4290.5	4273.6	4183.2	3936.8	3328.9
60°	1290.4	1371.8	1542.4	1975.2	2563.9	3270.2	3293.9	3431.7	3448.7	3014.8	2290.5
62.5°	548.0	539.0	716.4	1035.1	1459.9	1974.1	2018.1	2159.4	2185.4	1737.9	1149.2
65°	222.6	235.0	324.3	520.9	771.8	899.5	961.6	1007.9	1093.8	717.5	423.7
67.5°	146.9	145.8	191.0	297.2	415.8	401.1	401.1	423.7	392.1	292.7	183.1
70°	105.1	108.5	136.7	205.7	258.8	192.1	184.2	176.3	200.0	193.2	148.0
72.5°	68.9	73.4	91.5	123.2	134.5	105.1	105.1	126.6	165.0	155.9	120.9
75°	45.2	46.3	56.5	71.2	66.7	54.2	59.9	84.7	119.8	115.3	85.9
77.5°	30.5	31.6	38.4	46.3	37.3	30.5	32.8	42.9	58.8	58.8	45.2
80°	11.3	12.4	15.8	14.7	16.9	21.5	23.7	29.4	35.0	35.0	30.5
82.5°	0.0	1.1	3.4	7.9	12.4	16.9	19.2	22.6	26.0	29.4	28.2
85°	0.0	1.1	3.4	5.6	9.0	10.2	11.3	7.9	6.8	6.8	5.6
87.5°	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	2.3	1.1	1.1
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°	1185.3	1185.3	1185.3	1185.3	1185.3	1185.3	1185.3	1185.3	1185.3	1185.3	1185.3
2.5°	1185.3	1184.2	1184.2	1180.8	1187.6	1184.2	1186.5	1185.3	1170.7	1182.0	1174.0
5°	1197.8	1205.7	1193.3	1191.0	1182.0	1185.3	1185.3	1174.0	1184.2	1183.1	1180.8
7.5°	1229.4	1215.9	1202.3	1188.7	1186.5	1183.1	1170.7	1166.1	1174.0	1165.0	1178.6
10°	1243.0	1245.2	1224.9	1206.8	1189.9	1166.1	1149.2	1139.0	1126.6	1140.1	1148.1
12.5°	1305.1	1282.5	1247.5	1219.2	1161.6	1137.9	1120.9	1116.4	1137.9	1142.4	1134.5
15°	1326.6	1323.2	1278.0	1214.7	1154.8	1126.6	1130.0	1120.9	1123.2	1111.9	1114.2
17.5°	1370.7	1332.2	1279.1	1200.0	1153.7	1146.9	1126.6	1090.4	1070.1	1061.1	1069.0
20°	1419.3	1382.0	1305.1	1205.7	1163.9	1145.8	1079.1	1035.1	993.3	970.7	971.8
22.5°	1462.2	1415.9	1293.8	1207.9	1172.9	1098.3	1018.1	931.1	879.1	844.1	845.2
25°	1514.2	1448.6	1298.3	1212.5	1149.2	1022.6	907.4	822.6	760.5	736.7	744.7
27.5°	1543.6	1469.0	1323.2	1222.6	1087.0	915.3	791.0	711.9	675.7	664.4	663.3
30°	1631.7	1514.2	1353.7	1202.3	983.1	800.0	684.8	636.2	601.1	591.0	593.2
32.5°	1762.8	1596.7	1393.3	1149.2	876.9	697.2	615.8	579.7	546.9	527.7	525.4
35°	1872.4	1737.9	1435.1	1066.7	753.7	618.1	567.2	522.1	472.3	450.9	445.2
37.5°	2081.4	1897.2	1426.0	942.4	636.2	559.3	515.3	459.9	417.0	387.6	384.2
40°	2359.4	2083.7	1382.0	791.0	549.2	507.4	459.9	406.8	353.7	328.8	326.6
42.5°	2697.3	2311.9	1301.7	637.3	462.2	455.4	412.4	351.4	304.0	285.9	287.0
45°	2971.8	2507.4	1220.4	511.9	397.8	404.5	367.2	309.6	276.8	262.2	262.2
47.5°	3215.9	2639.6	1132.2	422.6	337.9	353.7	320.9	287.0	258.8	247.5	245.2
50°	3451.0	2774.1	1044.1	342.4	288.1	304.0	300.6	273.5	250.9	237.3	238.4
52.5°	3597.9	2795.6	932.2	280.2	252.0	270.1	281.4	256.5	231.6	223.7	221.5
55°	3418.2	2518.7	723.2	230.5	213.6	237.3	258.8	230.5	211.3	197.7	196.6
56°	3176.4	2252.0	604.5	212.4	202.3	228.3	250.9	220.3	198.9	191.0	185.3
57.5°	2689.4	1843.0	446.3	188.7	187.6	212.4	238.4	210.2	185.3	178.5	178.5
60°	1676.9	1037.3	270.1	158.2	162.7	188.7	214.7	187.6	165.0	165.0	168.4
62.5°	763.9	431.7	163.8	134.5	140.1	162.7	191.0	169.5	157.1	169.5	171.8
65°	259.9	186.4	118.6	107.3	110.7	134.5	163.8	171.8	170.6	178.5	183.1
67.5°	145.8	119.8	99.4	89.3	87.0	99.4	134.5	171.8	165.0	161.6	163.8
70°	123.2	101.7	88.1	79.1	75.7	80.2	104.0	129.9	116.4	113.0	110.7
72.5°	99.4	84.7	76.8	71.2	61.0	52.0	47.5	49.7	55.4	58.8	64.4
75°	70.1	64.4	64.4	57.6	44.1	32.8	26.0	21.5	14.7	10.2	11.3
77.5°	39.5	39.5	40.7	35.0	28.2	21.5	15.8	11.3	5.6	2.3	1.1
80°	27.1	29.4	31.6	28.2	23.7	19.2	13.6	7.9	3.4	0.0	0.0
82.5°	27.1	30.5	32.8	28.2	23.7	18.1	13.6	7.9	3.4	1.1	0.0
85°	5.6	6.8	7.9	9.0	13.6	13.6	10.2	6.8	3.4	1.1	0.0
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	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)