

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: P458708

Luminaire Tested: **GALN-SA2C-735-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458708
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9669 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

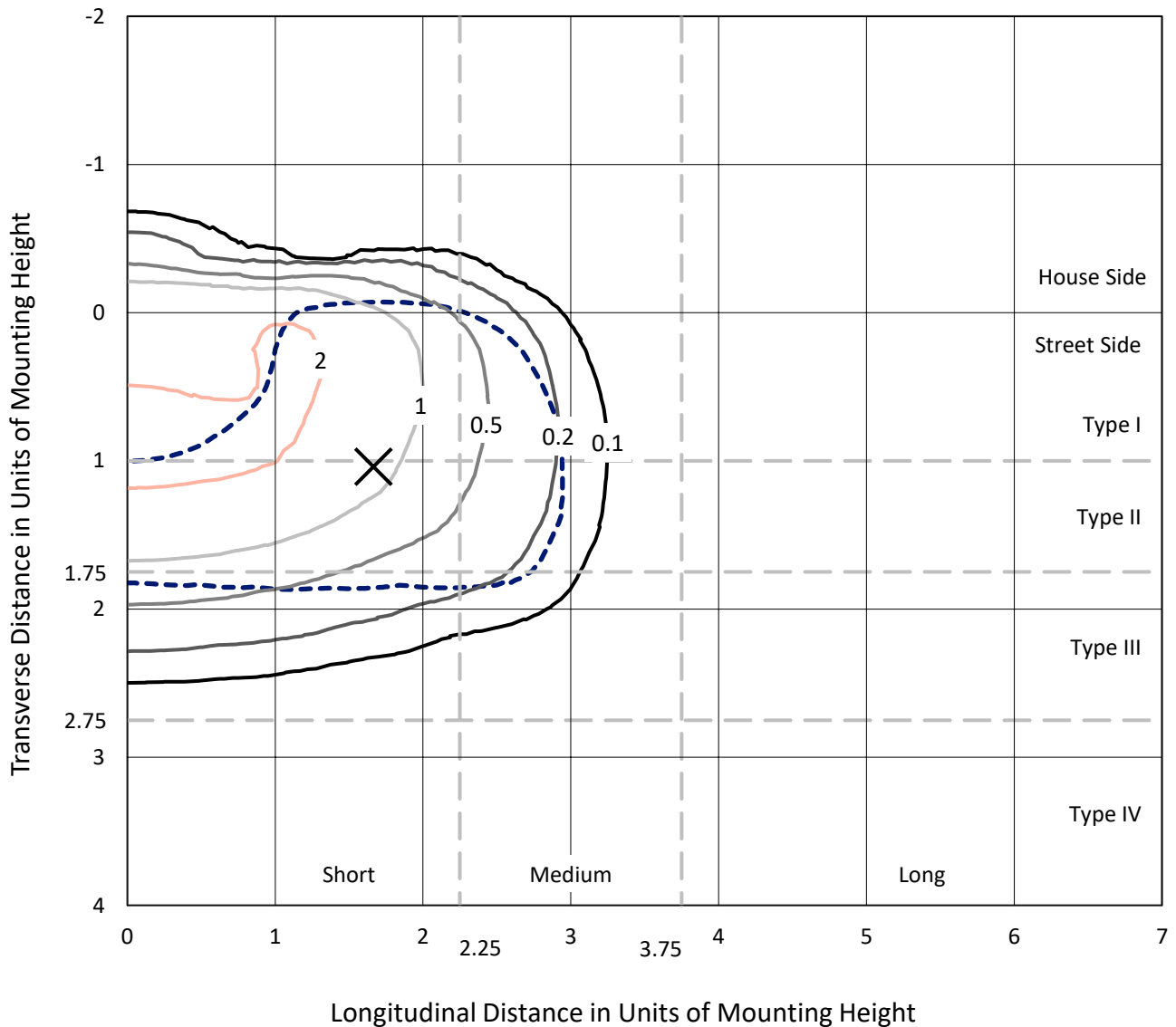
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

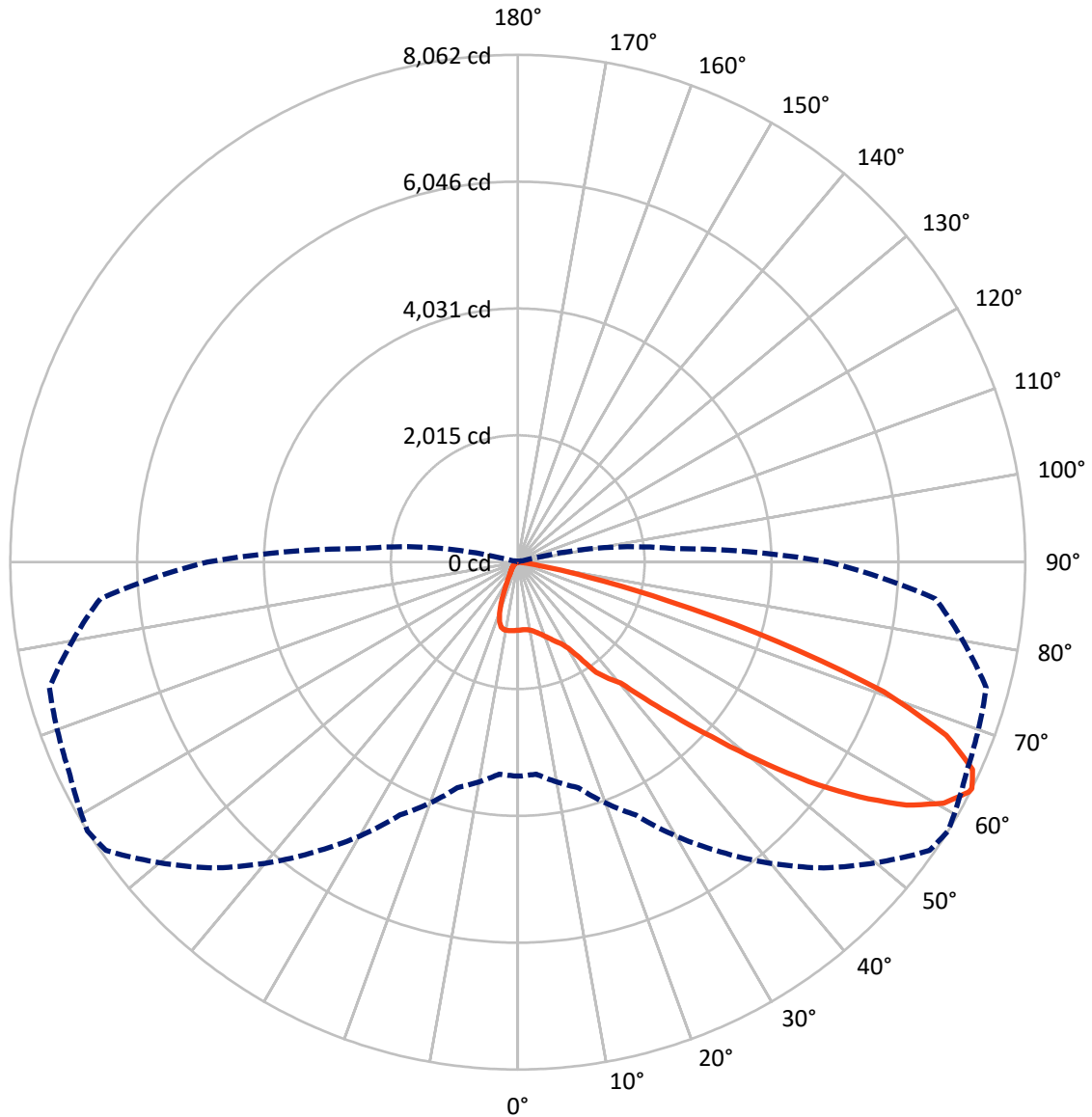
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1001.2	0.0	1001.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	8667.8	0.0	8667.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	9669.0	0.0	9669.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	1.0
10°-20°	276.0	2.9
20°-30°	479.0	5.0
30°-40°	880.2	9.1
40°-50°	1657.0	17.1
50°-60°	2834.2	29.3
60°-70°	2713.8	28.1
70°-80°	692.0	7.2
80°-90°	35.4	0.4
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°	9669.0	100.0
0°-180°	9669.0	100.0

Coefficient of Utilization



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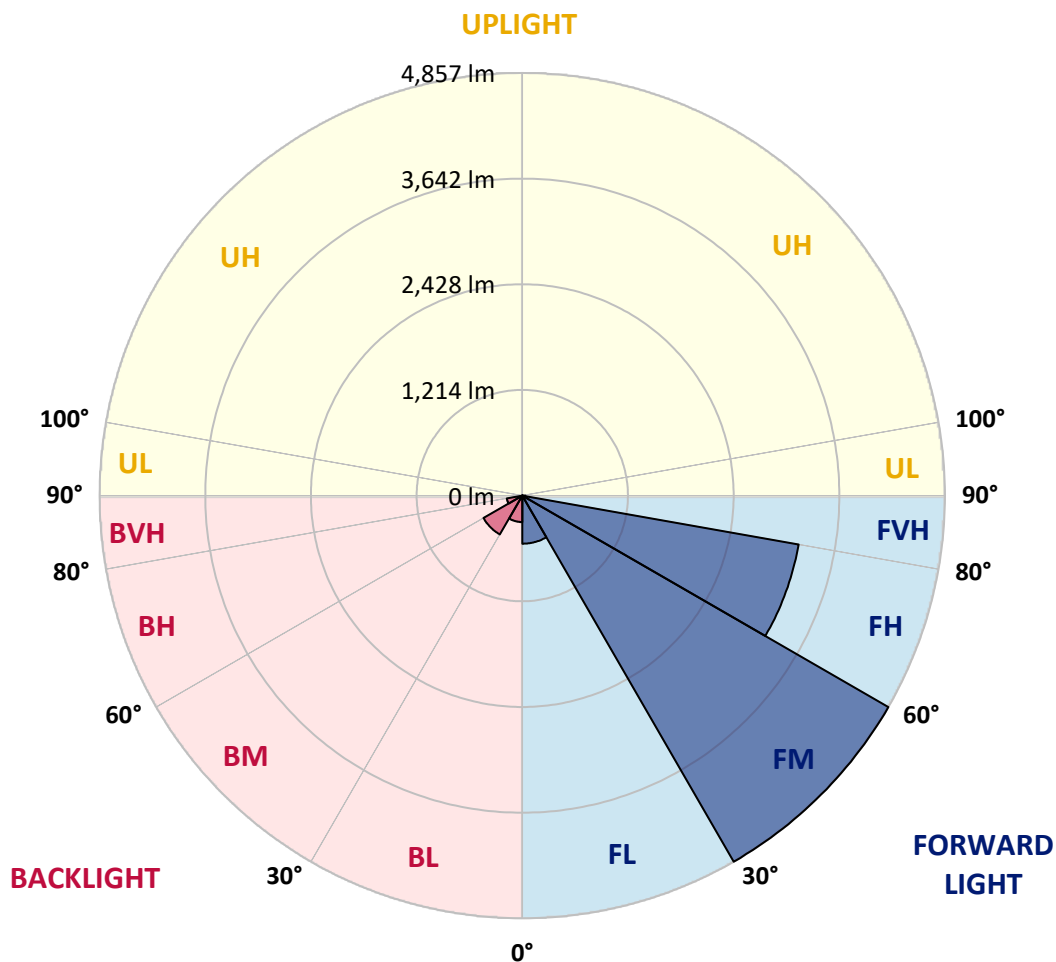
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	552.7	5.7			
FM	(30°-60°)	4856.5	50.2			
FH	(60°-80°)	3224.6	33.3			G2/5000
FVH	(80°-90°)	34.0	0.4			G1/100
BL	(0°-30°)	303.6	3.1	B1/500		
BM	(30°-60°)	514.9	5.3	B1/1000		
BH	(60°-80°)	181.2	1.9	B1/500		G1/500
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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1082.5	1082.5	1082.5	1082.5	1082.5	1082.5	1082.5	1082.5	1082.5	1082.5	1082.5
2.5°	1055.5	1059.2	1062.8	1064.3	1069.4	1074.5	1078.1	1077.4	1083.2	1086.1	1086.1
5°	1013.3	1013.3	1022.8	1031.5	1046.1	1060.6	1074.5	1077.4	1088.3	1098.5	1102.1
7.5°	977.7	979.8	987.1	1003.1	1022.8	1048.3	1075.9	1082.5	1101.4	1124.0	1133.4
10°	960.9	962.4	971.8	988.6	1013.3	1048.3	1086.8	1099.2	1128.3	1164.0	1177.1
12.5°	957.3	959.5	968.9	987.8	1016.2	1058.5	1110.9	1124.0	1166.2	1212.1	1231.7
15°	963.8	965.3	974.7	995.1	1026.4	1076.7	1142.9	1161.1	1211.3	1264.5	1290.0
17.5°	987.1	985.7	992.2	1009.0	1043.9	1099.2	1181.5	1203.3	1262.3	1335.1	1351.8
20°	1086.1	1076.7	1070.8	1056.3	1070.1	1131.3	1228.1	1260.1	1332.9	1407.2	1418.8
22.5°	1299.4	1278.3	1236.8	1180.0	1136.4	1174.9	1284.1	1321.3	1415.2	1488.0	1488.0
25°	1570.9	1544.0	1502.5	1378.8	1271.8	1247.0	1347.5	1394.1	1504.7	1578.2	1554.2
27.5°	1910.9	1889.8	1809.0	1664.9	1501.1	1372.9	1421.0	1463.9	1584.0	1672.9	1622.6
30°	2187.5	2177.3	2111.1	1982.2	1801.7	1614.6	1557.8	1586.2	1689.6	1792.2	1740.6
32.5°	2421.2	2421.2	2353.5	2233.4	2064.5	1898.5	1790.1	1810.4	1909.4	2028.1	1932.0
35°	2678.2	2669.4	2614.8	2500.6	2311.3	2165.0	2120.6	2148.2	2237.8	2325.8	2089.3
37.5°	2948.3	2945.3	2888.6	2777.9	2623.6	2439.4	2335.3	2342.6	2388.4	2442.3	2273.4
40°	3241.6	3246.0	3171.7	3103.3	2957.7	2769.2	2569.7	2523.8	2566.8	2718.9	2613.4
42.5°	3588.1	3577.9	3545.9	3452.7	3335.5	3222.7	2983.2	2966.5	3004.3	3167.4	3053.1
45°	3990.7	4005.3	3949.9	3898.2	3819.6	3725.7	3525.5	3496.4	3537.9	3791.2	3628.9
47.5°	4394.0	4380.2	4415.8	4406.4	4448.6	4378.7	4201.8	4142.1	4241.8	4482.1	4243.3
50°	4701.2	4716.5	4790.7	4899.2	5080.5	5119.8	4950.2	4929.8	4974.2	5128.5	4792.9
52.5°	4900.7	4951.6	5068.1	5346.9	5673.7	5927.8	5799.0	5788.0	5769.8	5811.3	5318.5
55°	5031.0	5082.6	5234.8	5645.4	6208.1	6620.8	6627.4	6580.8	6460.7	6430.8	5809.9
57.5°	4950.9	4961.1	5178.0	5726.9	6504.4	7115.1	7329.1	7282.5	7060.5	6947.7	6243.7
60°	4450.0	4471.2	4773.3	5418.2	6375.5	7276.7	7794.3	7773.2	7530.1	7402.7	6581.5
62.5°	3562.7	3623.8	3934.6	4653.9	5776.4	7004.5	7982.8	8042.5	7853.3	7677.8	6687.8
63°	3399.6	3379.9	3708.2	4431.1	5617.7	6869.8	7985.8	8061.5	7867.8	7704.0	6658.7
65°	2516.6	2575.5	2788.8	3494.2	4675.0	6243.0	7806.0	7939.9	7814.0	7588.3	6336.2
67.5°	1413.0	1410.1	1645.9	2286.5	3272.2	4897.0	7058.3	7341.5	7315.3	6809.4	5252.3
70°	691.6	702.5	799.3	1185.1	1897.8	3378.5	5865.2	6170.9	6180.4	5348.3	3631.8
72.5°	313.0	318.1	387.3	577.3	975.5	1798.8	4041.7	4333.6	4279.7	3408.3	2005.5
75°	165.2	176.2	213.3	290.5	470.3	741.8	2198.5	2480.9	2368.1	1557.1	738.2
77.5°	122.3	125.9	144.9	184.9	251.9	289.0	948.5	1128.3	1057.0	563.4	244.6
80°	89.5	92.5	107.7	131.0	158.7	147.0	357.4	409.8	367.6	191.5	75.0
82.5°	54.6	55.3	78.6	97.5	99.7	82.3	117.9	126.7	132.5	107.7	40.8
85°	19.7	24.8	53.1	70.6	59.0	41.5	49.5	54.6	59.7	68.4	24.0
87.5°	2.2	2.9	25.5	34.2	16.7	15.3	18.2	20.4	21.8	25.5	11.6
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°	1082.5	1082.5	1082.5	1082.5	1082.5	1082.5	1082.5	1082.5	1082.5	1082.5	1082.5
2.5°	1089.0	1091.9	1089.8	1086.1	1085.4	1083.2	1078.8	1078.8	1078.8	1080.3	1078.8
5°	1105.0	1107.2	1102.1	1094.9	1086.8	1076.7	1065.7	1059.2	1058.5	1057.0	1053.4
7.5°	1135.6	1138.5	1126.9	1109.4	1087.6	1062.8	1039.5	1017.7	1007.5	999.5	999.5
10°	1180.0	1182.9	1159.6	1128.3	1084.7	1034.4	979.1	928.9	889.6	871.4	867.0
12.5°	1233.2	1234.6	1196.0	1141.4	1069.4	972.6	854.6	744.7	668.3	633.3	629.7
15°	1291.4	1281.2	1230.3	1146.5	1025.7	845.2	641.3	506.7	427.3	404.0	412.8
17.5°	1350.4	1331.4	1256.5	1138.5	927.4	641.3	431.0	345.8	321.0	314.5	314.5
20°	1405.7	1379.5	1275.4	1103.6	757.1	441.9	319.6	299.2	294.8	290.5	291.2
22.5°	1461.0	1421.0	1292.1	1025.7	564.2	315.9	286.1	279.5	273.7	267.9	267.2
25°	1514.9	1459.6	1298.7	881.6	384.4	271.5	261.3	252.6	241.0	234.4	232.9
27.5°	1570.9	1506.2	1294.3	699.6	280.3	243.1	232.9	220.6	206.7	195.1	195.1
30°	1678.7	1595.0	1279.0	503.0	235.9	214.0	200.9	181.3	166.0	154.3	153.6
32.5°	1825.7	1710.7	1226.6	353.8	209.7	188.5	168.9	147.0	131.0	122.3	122.3
35°	1956.8	1827.2	1128.3	260.6	188.5	163.8	139.8	118.7	106.3	100.5	98.3
37.5°	2156.2	1997.5	992.9	211.8	168.2	142.0	117.2	97.5	87.4	83.0	83.0
40°	2455.4	2205.7	827.0	185.6	148.5	120.8	97.5	82.3	74.3	69.2	69.2
42.5°	2826.7	2460.5	658.8	166.7	130.3	104.1	81.5	69.9	62.6	59.0	58.2
45°	3294.0	2729.1	507.4	149.2	115.7	88.8	69.2	59.0	51.7	49.5	50.2
47.5°	3781.8	2965.7	393.1	133.9	100.5	75.0	59.0	51.0	45.9	42.9	42.9
50°	4198.2	3128.8	298.5	116.5	88.8	63.3	51.7	45.9	41.5	40.0	39.3
52.5°	4546.1	3176.1	228.6	101.2	77.9	54.6	45.9	41.5	37.9	35.7	35.7
55°	4842.4	3134.6	179.1	85.2	65.5	47.3	40.8	37.1	32.8	30.6	29.8
57.5°	5015.7	3001.4	136.9	70.6	53.1	39.3	35.7	31.3	26.2	22.6	22.6
60°	5103.0	2807.8	104.8	58.2	40.8	31.3	29.1	23.3	18.2	15.3	14.6
62.5°	4998.2	2550.8	79.3	45.9	30.6	23.3	19.7	16.7	11.6	8.7	8.7
63°	4933.4	2476.5	76.4	43.7	28.4	21.8	18.2	15.3	10.2	8.0	7.3
65°	4497.4	2152.6	62.6	34.9	22.6	15.3	12.4	10.9	7.3	3.6	2.9
67.5°	3571.4	1646.7	49.5	26.2	16.0	10.9	7.3	6.6	2.2	0.0	0.0
70°	2414.7	1063.6	38.6	18.9	10.9	6.6	3.6	2.9	0.7	0.0	0.0
72.5°	1259.4	545.2	29.8	13.8	6.6	4.4	2.2	0.7	0.0	0.0	0.0
75°	445.5	185.6	21.8	8.7	4.4	2.2	0.7	0.0	0.0	0.0	0.0
77.5°	134.7	69.2	13.8	6.6	2.9	1.5	0.0	0.0	0.0	0.0	0.0
80°	47.3	25.5	8.0	4.4	2.2	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	23.3	12.4	5.1	3.6	2.2	0.7	0.0	0.0	0.0	0.0	0.0
85°	13.1	8.0	4.4	3.6	2.2	1.5	0.0	0.0	0.0	0.0	0.0
87.5°	9.5	5.8	4.4	3.6	2.9	1.5	0.7	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)