

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: P648445

Luminaire Tested: **GALN-SA5B-835-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-835-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16679.5 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

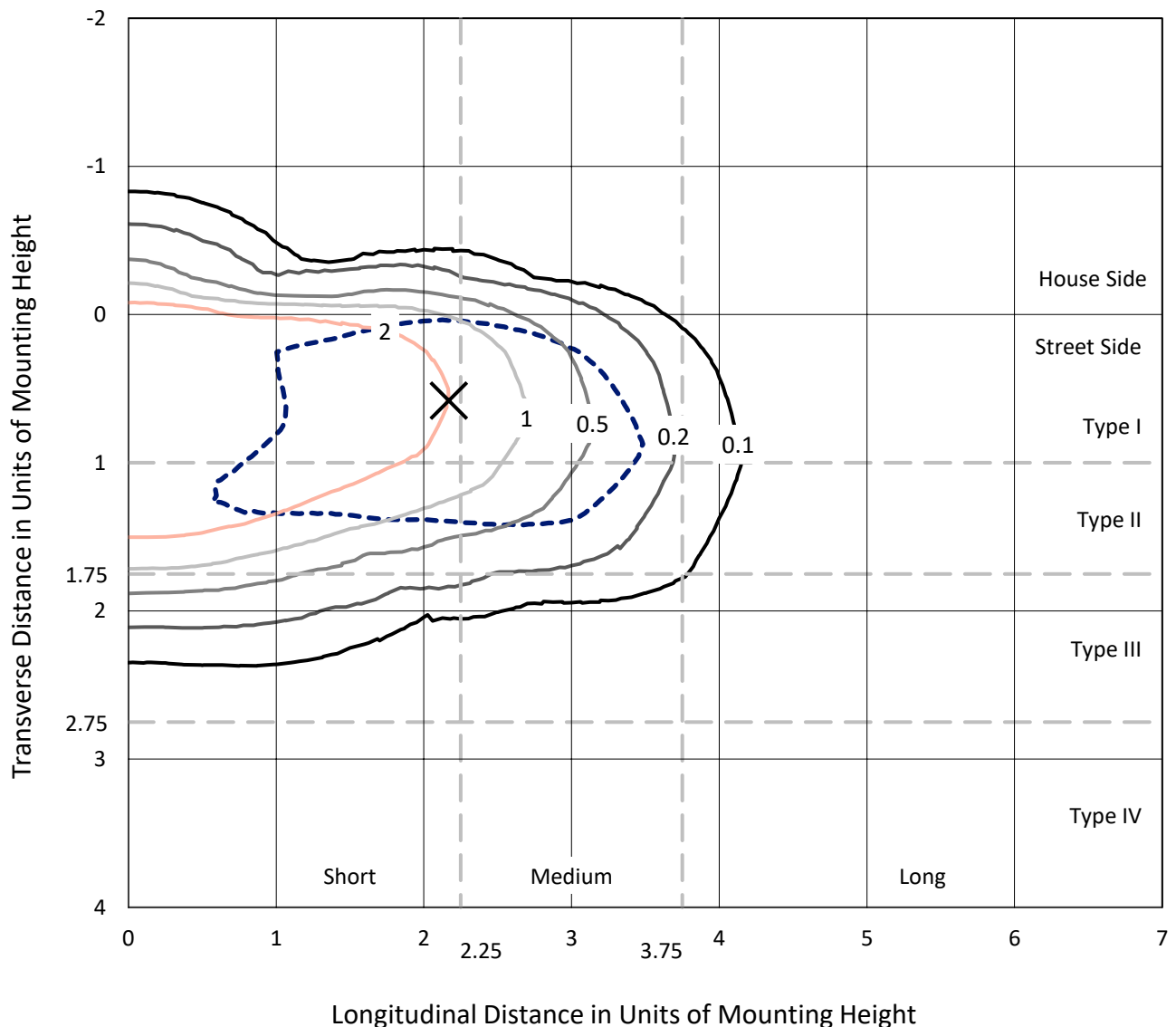
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

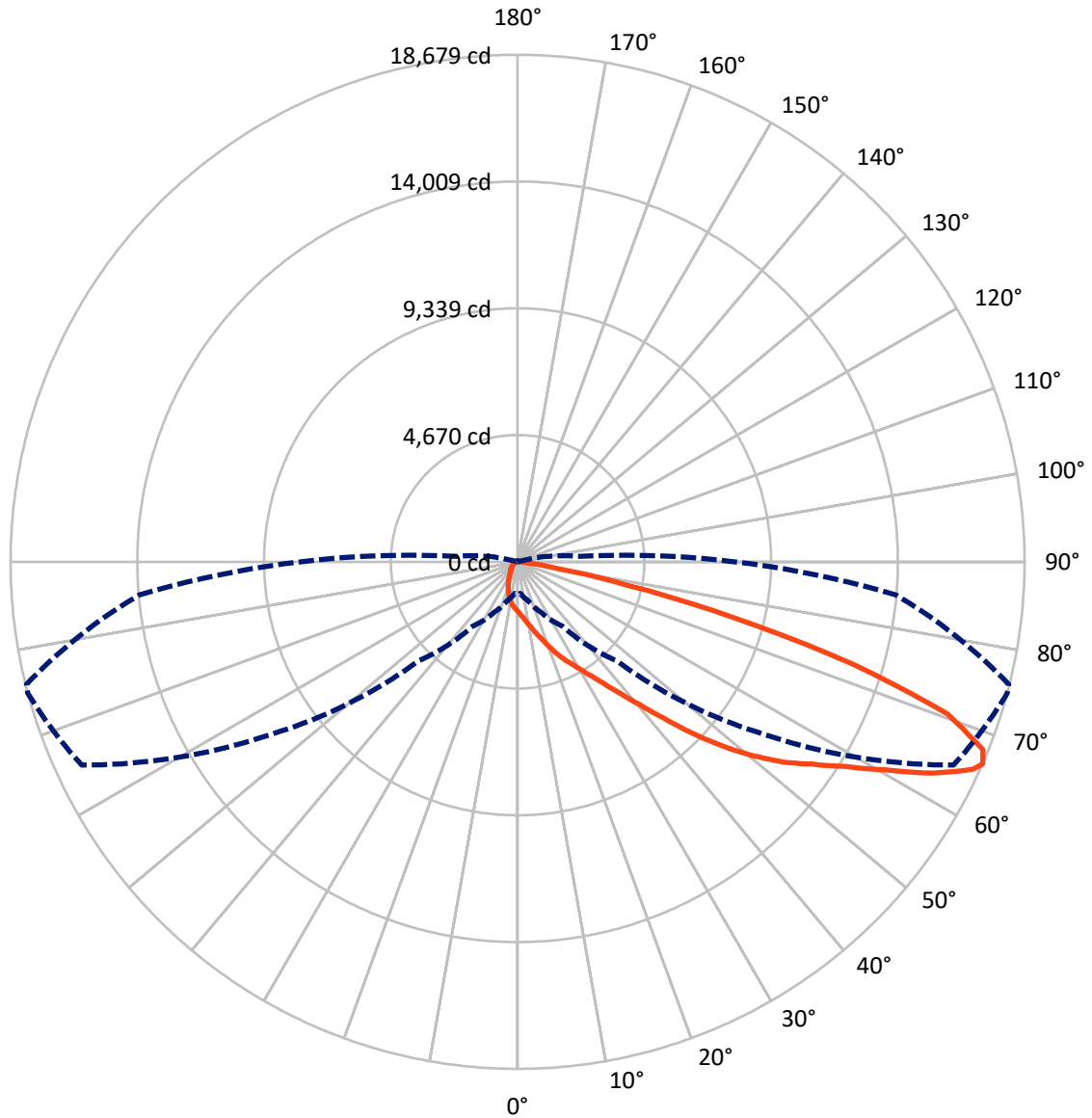
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1029.7	0.0	1029.7
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	15649.7	0.0	15649.7
	% Fixture	93.8	0.0	93.8
Total	Lumens	16679.5	0.0	16679.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.9	1.1
10°-20°	517.8	3.1
20°-30°	894.1	5.4
30°-40°	1612.8	9.7
40°-50°	2913.5	17.5
50°-60°	4542.2	27.2
60°-70°	4314.9	25.9
70°-80°	1617.1	9.7
80°-90°	91.3	0.5
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°	16679.5	100.0
0°-180°	16679.5	100.0

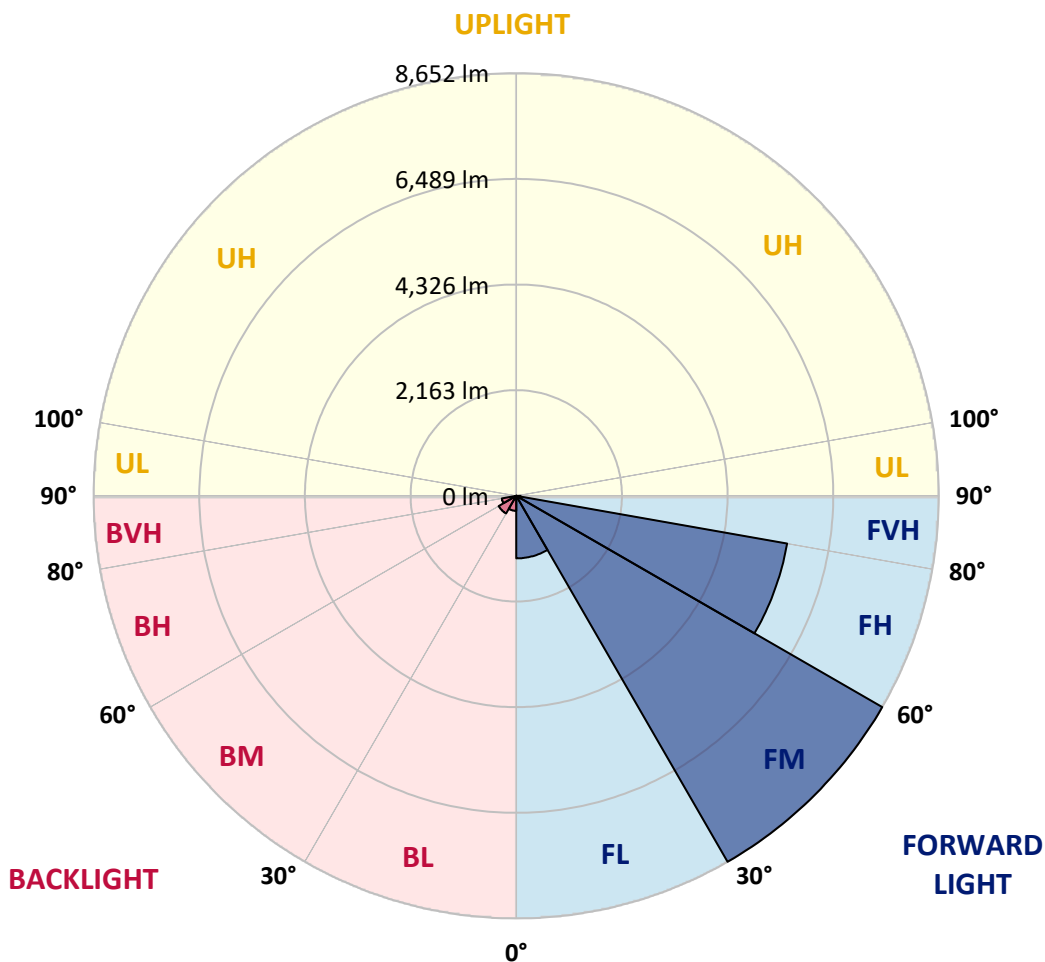


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1280.3	7.7			
FM (30°-60°)	8651.6	51.9			
FH (60°-80°)	5631.3	33.8			G3/7500
FVH (80°-90°)	86.5	0.5			G1/100
BL (0°-30°)	307.5	1.8	B1/500		
BM (30°-60°)	416.8	2.5	B1/1000		
BH (60°-80°)	300.7	1.8	B1/500		G1/500
BVH (80°-90°)	4.7	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-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1824.1	1824.1	1824.1	1824.1	1824.1	1824.1	1824.1	1824.1	1824.1	1824.1	1824.1
2.5°	2179.2	2152.2	2160.8	2148.4	2120.1	2078.2	2041.1	1988.1	1935.0	1926.4	1867.2
5°	2466.6	2459.2	2449.4	2413.6	2393.9	2329.7	2253.2	2162.0	2052.2	2032.5	1925.2
7.5°	2662.7	2659.0	2663.9	2645.4	2628.2	2570.2	2488.8	2364.3	2194.0	2182.9	2004.1
10°	2726.9	2736.7	2755.2	2784.8	2811.9	2793.4	2731.8	2576.4	2377.8	2345.8	2094.1
12.5°	2689.8	2701.0	2745.4	2824.3	2911.8	2962.4	2937.7	2824.3	2572.7	2546.8	2195.3
15°	2594.9	2608.5	2671.4	2793.4	2950.1	3093.2	3154.8	3073.4	2799.6	2757.6	2317.4
17.5°	2454.3	2474.0	2564.0	2725.6	2940.2	3186.9	3360.8	3333.6	3041.3	3001.9	2450.6
20°	2348.2	2363.0	2439.5	2624.5	2898.3	3238.6	3556.9	3633.4	3339.8	3272.0	2607.2
22.5°	2418.5	2423.5	2449.4	2560.3	2823.0	3252.3	3729.5	3945.4	3656.8	3596.3	2770.0
25°	2762.6	2713.3	2687.4	2662.7	2807.0	3239.9	3886.2	4271.0	3972.5	3908.3	2931.6
27.5°	3305.3	3283.0	3152.4	2977.2	2943.9	3255.9	3989.8	4579.3	4269.7	4200.6	3089.4
30°	3896.1	3857.8	3777.7	3521.1	3263.3	3369.4	4065.0	4879.0	4621.2	4530.0	3233.7
32.5°	4438.7	4463.3	4343.7	4079.8	3781.3	3611.1	4162.4	5205.8	5024.5	4911.1	3401.4
35°	5071.3	5120.7	4937.0	4684.1	4335.1	4047.7	4352.4	5574.6	5536.4	5393.2	3660.4
37.5°	5713.9	5743.5	5631.3	5276.1	4961.6	4602.7	4710.0	6029.6	6166.5	6044.4	3970.0
40°	6254.1	6294.8	6212.2	5896.5	5561.0	5245.2	5229.3	6525.4	6916.4	6790.6	4431.3
42.5°	6667.2	6698.1	6700.6	6477.4	6175.2	6032.2	5891.5	7158.1	7856.2	7710.7	4966.6
45°	7189.0	7233.4	7207.4	7055.8	6830.0	6804.2	6731.4	7922.8	8980.9	8797.2	5660.9
47.5°	7995.5	8025.1	7961.0	7782.2	7552.8	7593.5	7550.3	8779.9	10127.9	9970.1	6379.9
50°	8555.4	8604.8	8696.1	8767.6	8601.1	8450.6	8322.4	9580.3	11216.9	11075.1	7115.0
52.5°	8549.3	8630.7	8919.3	9279.4	9643.3	9597.6	9228.8	10464.6	12256.6	12081.5	7805.6
55°	7973.4	8131.2	8555.4	9194.3	10201.9	10703.9	10536.1	11488.3	13154.5	13036.1	8606.0
57.5°	6784.5	6880.6	7470.1	8363.1	9889.9	11224.4	12050.7	12875.7	14231.2	14175.7	9849.2
60°	4563.2	4606.4	5364.9	6468.7	8419.8	10705.1	13160.7	14554.2	15557.0	15529.9	11300.8
62.5°	2614.6	2633.2	3183.2	4114.4	5991.4	9072.2	13254.4	16625.0	17146.7	17161.5	12980.6
65°	1407.2	1417.1	1861.0	2414.9	3645.6	6466.2	11918.7	17759.7	18431.8	18460.2	14021.5
66°	1214.8	1167.9	1481.2	2058.4	2900.8	5146.6	11073.9	17719.0	18678.5	18647.6	13984.5
67.5°	923.8	965.7	1182.7	1582.4	2149.6	3659.2	9142.5	16930.9	18491.0	18394.8	13415.9
70°	661.1	678.3	842.4	1128.5	1464.0	2007.8	5842.2	14062.2	16806.3	16676.8	11688.1
72.5°	426.7	445.2	597.0	816.4	1058.1	1096.4	3270.7	10160.0	12957.2	12938.7	8802.1
75°	304.7	321.9	394.6	584.6	795.4	678.3	1574.9	6847.3	8237.2	8181.8	5445.1
77.5°	220.7	229.4	263.9	382.3	568.5	485.9	730.1	3656.8	4100.7	4294.4	2406.2
80°	127.0	134.4	183.8	233.1	384.8	331.8	349.1	1467.7	1513.3	1440.5	752.3
82.5°	62.9	71.6	109.8	159.1	240.5	223.2	160.4	441.5	466.2	453.8	190.0
85°	14.8	18.5	61.7	104.8	117.1	99.9	77.7	129.5	160.4	156.6	72.7
87.5°	1.3	2.5	22.2	18.5	19.7	33.3	27.2	33.3	51.8	48.1	25.9
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°	1824.1	1824.1	1824.1	1824.1	1824.1	1824.1	1824.1	1824.1	1824.1	1824.1	1824.1
2.5°	1840.1	1816.6	1748.8	1682.2	1626.8	1568.7	1515.7	1484.9	1472.6	1459.0	1465.1
5°	1866.0	1809.3	1672.3	1553.9	1438.1	1339.4	1260.5	1209.9	1185.2	1181.5	1175.4
7.5°	1900.5	1803.1	1591.0	1406.0	1254.3	1144.5	1054.5	981.7	959.5	939.8	923.8
10°	1942.5	1792.0	1489.8	1250.6	1089.0	950.9	832.5	746.1	701.7	689.4	698.0
12.5°	1986.9	1771.1	1383.8	1107.5	921.3	744.9	635.2	592.0	579.7	574.7	576.0
15°	2031.3	1745.2	1272.8	969.4	733.8	594.5	543.9	532.8	527.8	525.4	522.9
17.5°	2072.0	1703.2	1148.2	834.9	594.5	508.1	489.6	479.7	469.9	466.2	460.0
20°	2120.1	1655.1	1036.0	684.5	503.2	460.0	437.9	419.3	404.5	394.6	393.5
22.5°	2165.7	1593.4	918.9	567.3	458.8	413.2	377.4	357.7	340.4	328.1	331.8
25°	2190.4	1518.2	814.0	494.5	418.1	366.3	326.8	302.2	283.7	277.5	276.2
27.5°	2190.4	1425.7	711.6	452.7	381.1	324.4	283.7	260.2	247.9	239.3	240.5
30°	2173.1	1323.3	616.7	420.5	349.1	287.4	249.2	228.2	218.3	212.1	210.9
32.5°	2159.5	1225.9	535.3	389.7	315.7	255.3	222.0	205.9	196.1	190.0	190.0
35°	2180.5	1142.0	472.4	358.9	284.9	230.6	201.0	186.2	176.3	171.4	170.2
37.5°	2236.0	1065.6	424.2	325.6	256.5	209.7	186.2	169.0	159.1	152.9	150.5
40°	2372.9	1022.4	388.5	294.8	229.4	192.4	169.0	152.9	140.6	134.4	133.2
42.5°	2592.4	1023.6	354.0	266.4	208.4	177.6	154.2	135.7	122.1	116.0	114.7
45°	2922.9	1070.5	326.8	239.3	190.0	161.5	138.1	118.4	106.1	99.9	99.9
47.5°	3318.8	1161.8	303.4	215.8	172.7	146.7	122.1	102.3	90.0	85.1	85.1
50°	3748.1	1280.2	279.9	191.1	157.9	130.8	104.8	88.8	78.9	75.2	75.2
52.5°	4185.8	1423.3	256.5	171.4	141.8	113.5	90.0	78.9	70.3	67.8	66.6
55°	4760.6	1605.8	231.8	150.5	124.6	97.4	80.2	69.1	59.2	55.5	54.3
57.5°	5644.9	1880.8	204.8	131.9	102.3	81.4	69.1	57.9	46.9	40.7	39.5
60°	6711.6	2216.3	176.3	116.0	82.6	66.6	55.5	44.4	34.5	27.2	25.9
62.5°	7710.7	2429.6	149.2	97.4	65.4	50.6	39.5	33.3	24.7	17.3	16.1
65°	8152.2	2358.1	123.3	78.9	51.8	35.8	25.9	23.4	14.8	7.4	6.2
66°	8005.4	2252.0	113.5	71.6	46.9	30.9	22.2	19.7	11.1	3.7	3.7
67.5°	7572.5	2001.7	98.7	61.7	40.7	24.7	17.3	14.8	6.2	1.3	0.0
70°	6488.4	1619.3	77.7	45.6	29.6	17.3	9.9	7.4	3.7	0.0	0.0
72.5°	4983.8	1206.2	61.7	34.5	21.0	9.9	4.9	2.5	3.7	0.0	0.0
75°	3053.7	689.4	48.1	25.9	13.5	6.2	3.7	0.0	3.7	1.3	0.0
77.5°	1355.4	309.6	32.1	17.3	9.9	4.9	2.5	0.0	2.5	1.3	0.0
80°	342.9	101.2	18.5	12.4	7.4	3.7	1.3	0.0	2.5	2.5	1.3
82.5°	93.7	37.0	13.5	9.9	6.2	3.7	1.3	0.0	2.5	2.5	2.5
85°	37.0	17.3	12.4	9.9	7.4	3.7	1.3	0.0	2.5	2.5	2.5
87.5°	17.3	12.4	12.4	11.1	8.6	3.7	1.3	0.0	2.5	1.3	2.5
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)