

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: P454528

Luminaire Tested: **GALN-SA5C-827-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454528
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-SA5C-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA 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: 19348 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

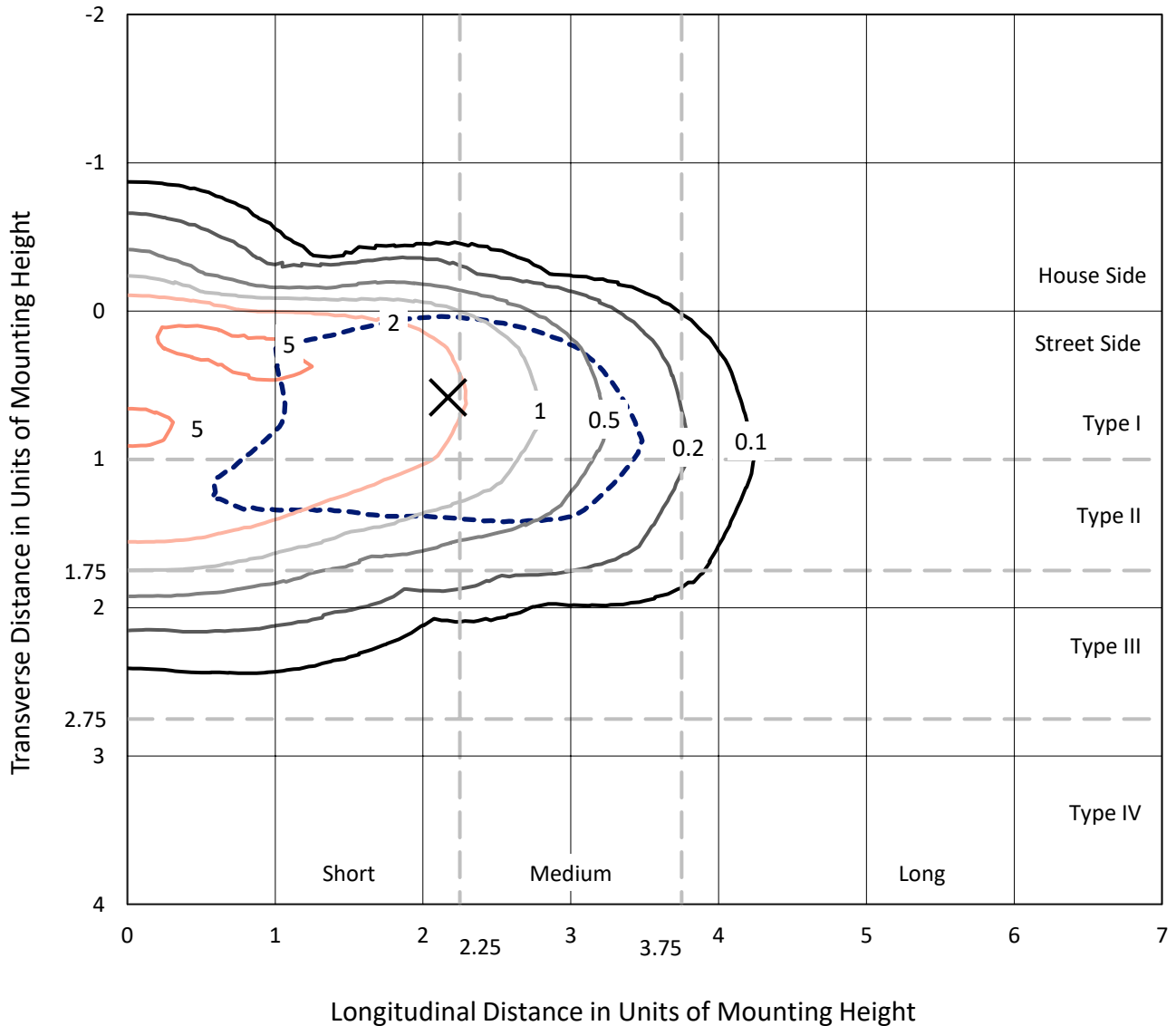
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

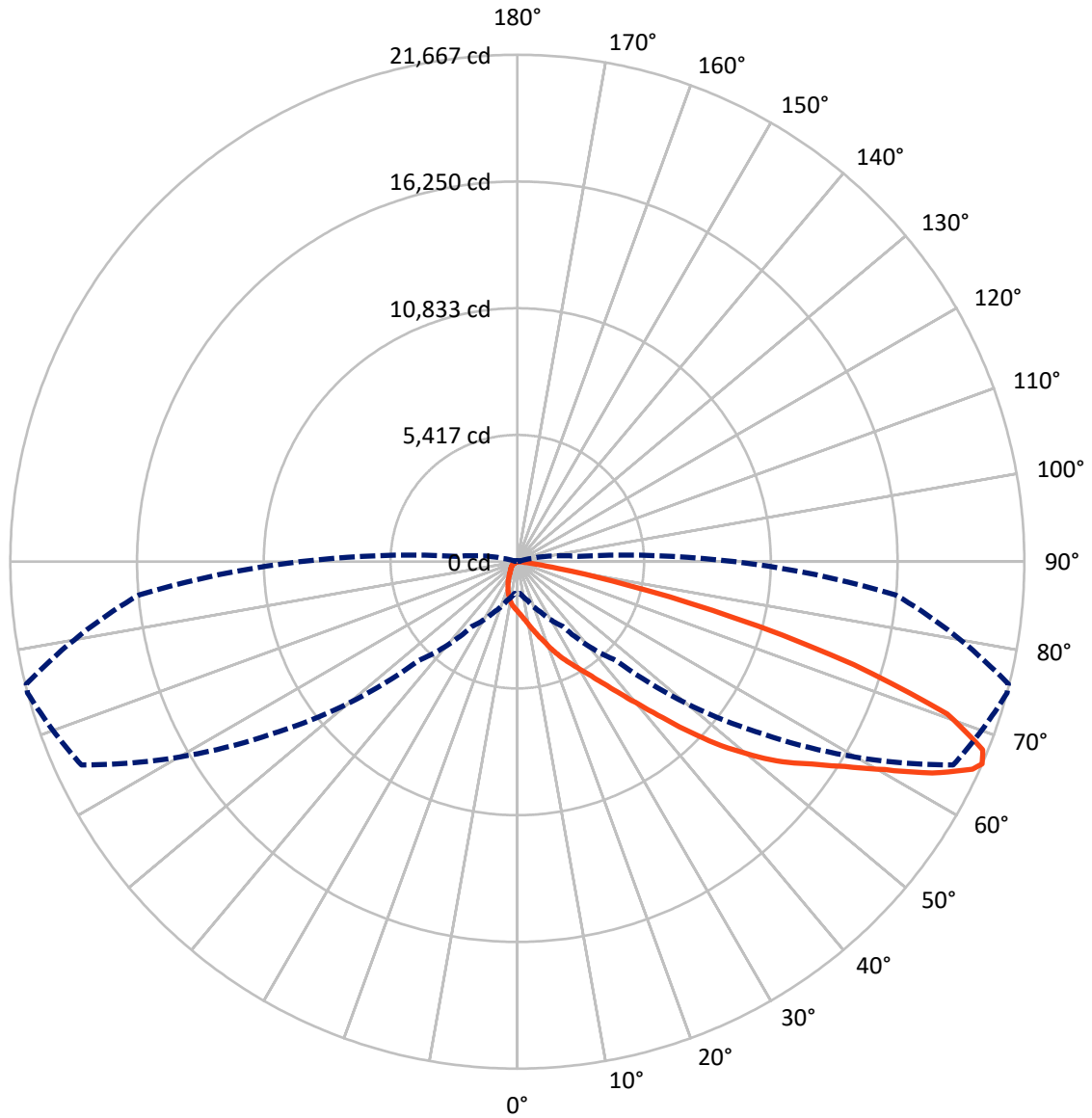
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	1194.5	0.0	1194.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	18153.5	0.0	18153.5
	% Fixture	93.8	0.0	93.8
Total	Lumens	19348.0	0.0	19348.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.1	1.1
10°-20°	600.6	3.1
20°-30°	1037.1	5.4
30°-40°	1870.8	9.7
40°-50°	3379.6	17.5
50°-60°	5268.9	27.2
60°-70°	5005.2	25.9
70°-80°	1875.8	9.7
80°-90°	105.8	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°	19348.0	100.0
0°-180°	19348.0	100.0

Coefficient of Utilization



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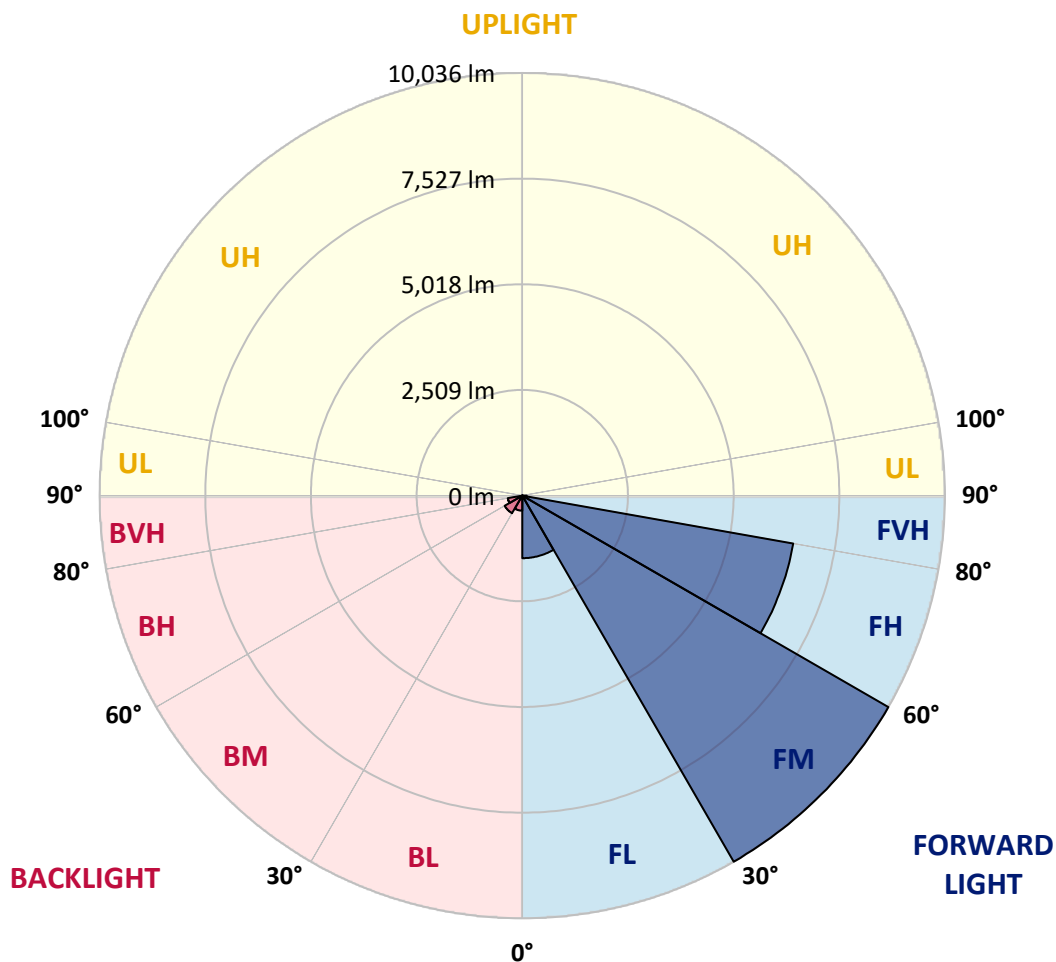
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1485.1	7.7			
FM (30°-60°)	10035.8	51.9			
FH (60°-80°)	6532.2	33.8			G3/7500
FVH (80°-90°)	100.4	0.5			G2/225
BL (0°-30°)	356.7	1.8	B1/500		
BM (30°-60°)	483.5	2.5	B1/1000		
BH (60°-80°)	348.8	1.8	B1/500		G1/500
BVH (80°-90°)	5.5	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°	2115.9	2115.9	2115.9	2115.9	2115.9	2115.9	2115.9	2115.9	2115.9	2115.9	2115.9
2.5°	2527.9	2496.4	2506.5	2492.1	2459.2	2410.6	2367.7	2306.2	2244.7	2234.6	2166.0
5°	2861.3	2852.7	2841.2	2799.7	2776.8	2702.5	2613.8	2507.9	2380.6	2357.7	2233.2
7.5°	3088.7	3084.4	3090.2	3068.7	3048.7	2981.4	2887.0	2742.5	2545.1	2532.2	2324.8
10°	3163.1	3174.6	3196.0	3230.4	3261.8	3240.4	3168.8	2988.6	2758.2	2721.0	2429.2
12.5°	3120.2	3133.1	3184.6	3276.1	3377.7	3436.4	3407.7	3276.1	2984.3	2954.2	2546.5
15°	3010.0	3025.8	3098.7	3240.4	3422.1	3588.0	3659.5	3565.1	3247.5	3198.9	2688.1
17.5°	2846.9	2869.8	2974.3	3161.7	3410.6	3696.7	3898.5	3867.0	3527.9	3482.1	2842.7
20°	2723.9	2741.1	2829.8	3044.4	3362.0	3756.8	4125.9	4214.6	3874.1	3795.4	3024.3
22.5°	2805.5	2811.2	2841.2	2970.0	3274.7	3772.6	4326.2	4576.6	4241.8	4171.7	3213.2
25°	3204.6	3147.4	3117.3	3088.7	3256.1	3758.3	4507.9	4954.3	4608.0	4533.7	3400.6
27.5°	3834.1	3808.3	3656.7	3453.5	3414.9	3776.9	4628.1	5311.9	4952.8	4872.7	3583.7
30°	4519.3	4475.0	4382.0	4084.4	3785.4	3908.5	4715.3	5659.6	5360.6	5254.7	3751.1
32.5°	5148.8	5177.4	5038.7	4732.5	4386.3	4188.9	4828.4	6038.7	5828.4	5696.8	3945.7
35°	5882.7	5940.0	5726.8	5433.5	5028.6	4695.3	5048.7	6466.4	6422.1	6256.1	4246.1
37.5°	6628.1	6662.4	6532.2	6120.2	5755.4	5339.1	5463.6	6994.3	7153.1	7011.5	4605.2
40°	7254.7	7301.9	7206.1	6839.8	6450.7	6084.5	6065.9	7569.4	8022.9	7877.0	5140.2
42.5°	7734.0	7769.7	7772.6	7513.6	7163.1	6997.2	6834.1	8303.4	9113.1	8944.3	5761.1
45°	8339.1	8390.6	8360.6	8184.6	7922.8	7892.8	7808.4	9190.3	10417.8	10204.7	6566.6
47.5°	9274.7	9309.1	9234.7	9027.2	8761.2	8808.4	8758.3	10184.6	11748.3	11565.2	7400.6
50°	9924.2	9981.5	10087.3	10170.3	9977.2	9802.6	9653.9	11113.1	13011.5	12847.0	8253.3
52.5°	9917.1	10011.5	10346.3	10764.0	11186.1	11133.1	10705.4	12138.9	14217.6	14014.4	9054.4
55°	9249.0	9432.1	9924.2	10665.3	11834.1	12416.4	12221.8	13326.3	15259.1	15121.7	9982.9
57.5°	7869.9	7981.5	8665.3	9701.1	11472.2	13020.1	13978.6	14935.7	16508.0	16443.6	11425.0
60°	5293.3	5343.4	6223.2	7503.6	9766.9	12417.8	15266.2	16882.8	18045.9	18014.4	13108.8
62.5°	3032.9	3054.4	3692.4	4772.6	6950.0	10523.7	15374.9	19284.8	19890.0	19907.2	15057.3
65°	1632.3	1643.8	2158.8	2801.2	4228.9	7500.8	13825.6	20601.0	21380.7	21413.6	16264.8
66°	1409.2	1354.8	1718.2	2387.7	3364.8	5970.0	12845.6	20553.8	21666.8	21631.1	16221.9
67.5°	1071.5	1120.2	1372.0	1835.5	2493.6	4244.7	10605.2	19639.6	21449.4	21337.8	15562.3
70°	766.8	786.8	977.1	1309.0	1698.2	2329.1	6776.9	16312.0	19495.1	19344.9	13558.0
72.5°	495.0	516.5	692.4	947.1	1227.5	1271.8	3794.0	11785.5	15030.2	15008.7	10210.4
75°	353.4	373.4	457.8	678.1	922.8	786.8	1826.9	7942.8	9555.1	9490.8	6316.2
77.5°	256.1	266.1	306.2	443.5	659.5	563.7	846.9	4241.8	4756.8	4981.4	2791.2
80°	147.4	155.9	213.2	270.4	446.4	384.8	404.9	1702.4	1755.4	1671.0	872.7
82.5°	73.0	83.0	127.3	184.6	279.0	258.9	186.0	512.2	540.8	526.5	220.3
85°	17.2	21.5	71.5	121.6	135.9	115.9	90.1	150.2	186.0	181.7	84.4
87.5°	1.4	2.9	25.8	21.5	22.9	38.6	31.5	38.6	60.1	55.8	30.0
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°	2115.9	2115.9	2115.9	2115.9	2115.9	2115.9	2115.9	2115.9	2115.9	2115.9	2115.9
2.5°	2134.5	2107.3	2028.6	1951.4	1887.0	1819.8	1758.2	1722.5	1708.2	1692.4	1699.6
5°	2164.5	2098.7	1939.9	1802.6	1668.1	1553.7	1462.1	1403.4	1374.8	1370.5	1363.4
7.5°	2204.6	2091.6	1845.5	1630.9	1454.9	1327.6	1223.2	1138.8	1113.0	1090.1	1071.5
10°	2253.2	2078.7	1728.2	1450.7	1263.2	1103.0	965.7	865.5	814.0	799.7	809.7
12.5°	2304.7	2054.4	1605.2	1284.7	1068.7	864.1	736.8	686.7	672.4	666.7	668.1
15°	2356.2	2024.3	1476.4	1124.5	851.2	689.6	630.9	618.0	612.3	609.4	606.6
17.5°	2403.5	1975.7	1331.9	968.5	689.6	589.4	568.0	556.5	545.1	540.8	533.6
20°	2459.2	1919.9	1201.7	794.0	583.7	533.6	507.9	486.4	469.2	457.8	456.4
22.5°	2512.2	1848.4	1065.8	658.1	532.2	479.3	437.8	414.9	394.9	380.5	384.8
25°	2540.8	1761.1	944.2	573.7	485.0	424.9	379.1	350.5	329.0	321.9	320.5
27.5°	2540.8	1653.8	825.5	525.0	442.1	376.3	329.0	301.9	287.6	277.5	279.0
30°	2520.8	1535.1	715.3	487.8	404.9	333.3	289.0	264.7	253.2	246.1	244.6
32.5°	2505.0	1422.0	620.9	452.1	366.2	296.1	257.5	238.9	227.5	220.3	220.3
35°	2529.3	1324.8	547.9	416.3	330.5	267.5	233.2	216.0	204.6	198.9	197.4
37.5°	2593.7	1236.1	492.1	377.7	297.6	243.2	216.0	196.0	184.6	177.4	174.5
40°	2752.5	1186.0	450.6	341.9	266.1	223.2	196.0	177.4	163.1	155.9	154.5
42.5°	3007.2	1187.4	410.6	309.0	241.8	206.0	178.8	157.4	141.6	134.5	133.0
45°	3390.6	1241.8	379.1	277.5	220.3	187.4	160.2	137.3	123.0	115.9	115.9
47.5°	3849.8	1347.6	351.9	250.4	200.3	170.2	141.6	118.7	104.4	98.7	98.7
50°	4347.7	1485.0	324.8	221.7	183.1	151.6	121.6	103.0	91.6	87.3	87.3
52.5°	4855.5	1650.9	297.6	198.9	164.5	131.6	104.4	91.6	81.5	78.7	77.3
55°	5522.2	1862.7	269.0	174.5	144.5	113.0	93.0	80.1	68.7	64.4	62.9
57.5°	6548.0	2181.7	237.5	153.1	118.7	94.4	80.1	67.2	54.4	47.2	45.8
60°	7785.5	2570.8	204.6	134.5	95.9	77.3	64.4	51.5	40.1	31.5	30.0
62.5°	8944.3	2818.3	173.1	113.0	75.8	58.7	45.8	38.6	28.6	20.0	18.6
65°	9456.4	2735.4	143.1	91.6	60.1	41.5	30.0	27.2	17.2	8.6	7.2
66°	9286.2	2612.3	131.6	83.0	54.4	35.8	25.8	22.9	12.9	4.3	4.3
67.5°	8784.0	2321.9	114.5	71.5	47.2	28.6	20.0	17.2	7.2	1.4	0.0
70°	7526.5	1878.4	90.1	52.9	34.3	20.0	11.4	8.6	4.3	0.0	0.0
72.5°	5781.2	1399.2	71.5	40.1	24.3	11.4	5.7	2.9	4.3	0.0	0.0
75°	3542.2	799.7	55.8	30.0	15.7	7.2	4.3	0.0	4.3	1.4	0.0
77.5°	1572.3	359.1	37.2	20.0	11.4	5.7	2.9	0.0	2.9	1.4	0.0
80°	397.7	117.3	21.5	14.3	8.6	4.3	1.4	0.0	2.9	2.9	1.4
82.5°	108.7	42.9	15.7	11.4	7.2	4.3	1.4	0.0	2.9	2.9	2.9
85°	42.9	20.0	14.3	11.4	8.6	4.3	1.4	0.0	2.9	2.9	2.9
87.5°	20.0	14.3	14.3	12.9	10.0	4.3	1.4	0.0	2.9	1.4	2.9
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)