

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: P530427

Luminaire Tested: **GALN-SA5C-827-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530427
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-SA5C-827-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 15456 lumens
Efficiency: N/A
Efficacy: 57.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

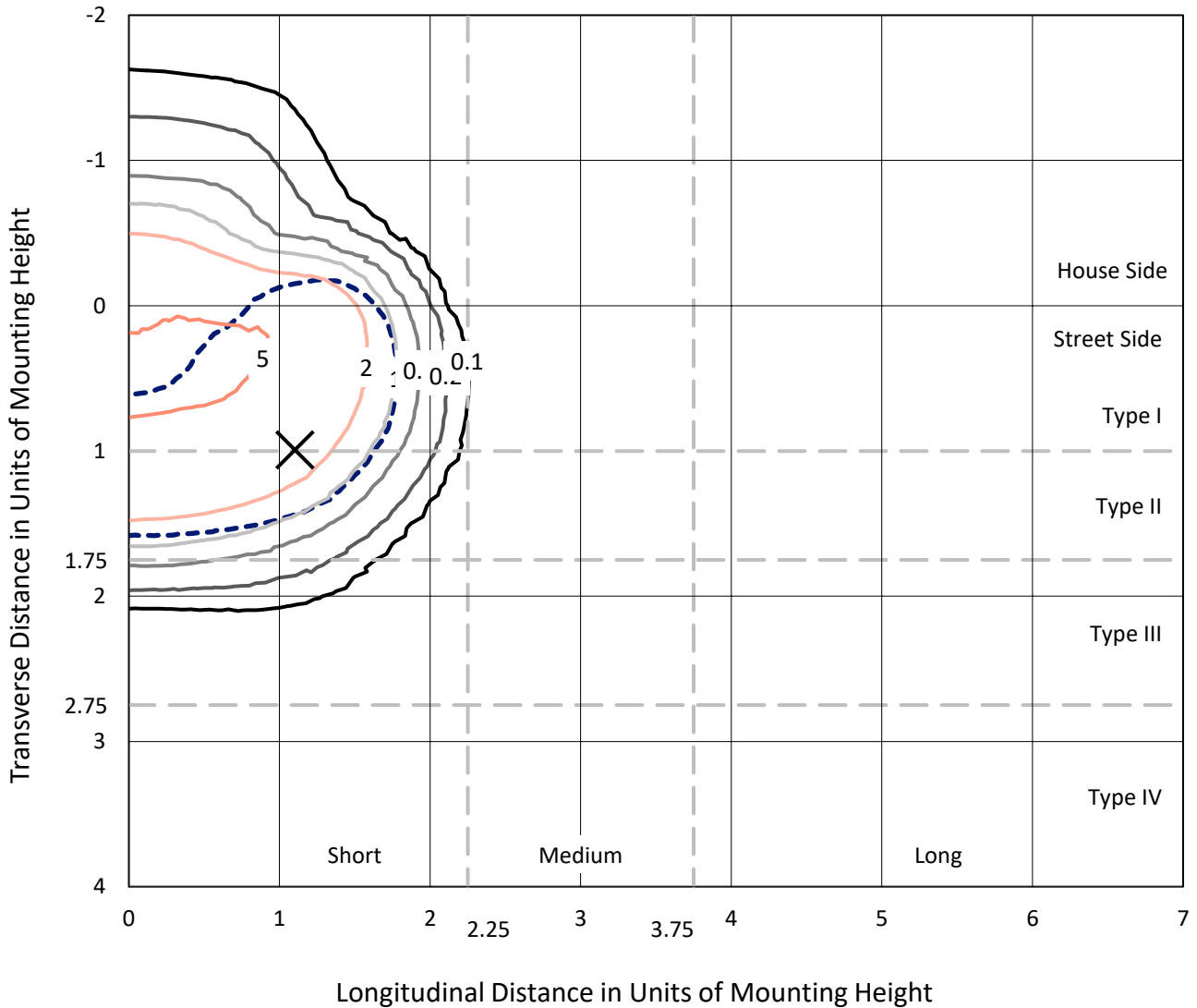
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

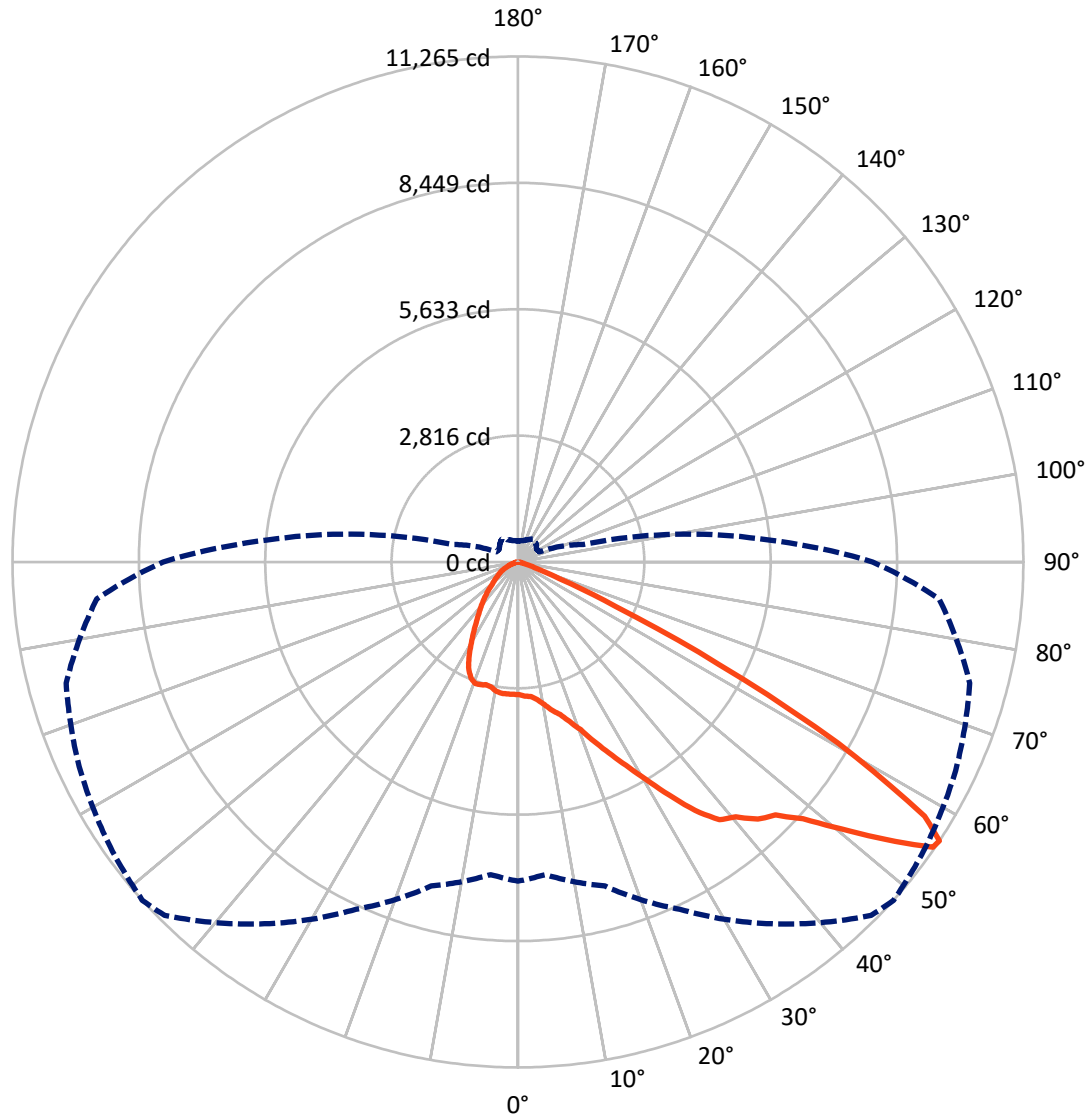
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	3361.4	0.0	3361.4
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	12094.6	0.0	12094.6
	% Fixture	78.3	0.0	78.3
Total	Lumens	15456.0	0.0	15456.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.6	1.9
10°-20°	919.0	5.9
20°-30°	1666.9	10.8
30°-40°	2618.4	16.9
40°-50°	3819.7	24.7
50°-60°	4602.1	29.8
60°-70°	1347.4	8.7
70°-80°	170.9	1.1
80°-90°	24.0	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°	15456.0	100.0
0°-180°	15456.0	100.0

Coefficient of Utilization



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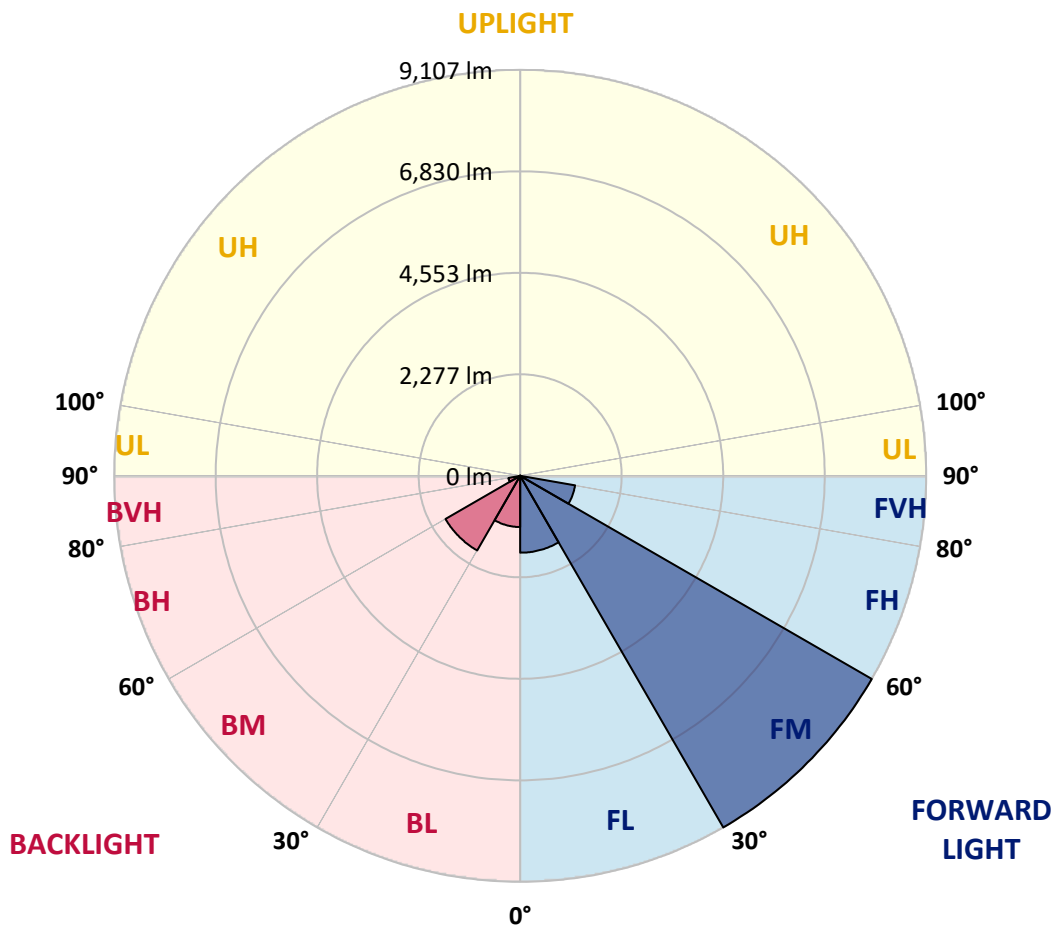
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1724.6	11.2			
FM (30°-60°)	9106.7	58.9			
FH (60°-80°)	1251.3	8.1			G1/1800
FVH (80°-90°)	12.0	0.1			G1/100
BL (0°-30°)	1148.9	7.4	B3/2500		
BM (30°-60°)	1933.5	12.5	B2/2500		
BH (60°-80°)	267.1	1.7	B1/500		G1/500
BVH (80°-90°)	11.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2952.1	2952.1	2952.1	2952.1	2952.1	2952.1	2952.1	2952.1	2952.1	2952.1	2952.1
2.5°	3005.6	2991.5	2991.5	2969.0	2994.3	2983.1	2991.5	2963.4	2991.5	2949.3	2983.1
5°	3019.6	3022.5	3011.2	3025.3	3025.3	3042.2	3014.0	3039.3	3053.4	3022.5	3008.4
7.5°	3092.8	3098.4	3095.6	3084.4	3106.9	3104.1	3101.3	3081.6	3087.2	3075.9	3059.0
10°	3236.3	3233.5	3247.6	3219.5	3202.6	3222.3	3227.9	3196.9	3174.4	3166.0	3112.5
12.5°	3444.6	3410.8	3391.1	3363.0	3371.4	3343.3	3393.9	3340.5	3329.2	3278.6	3225.1
15°	3613.4	3607.8	3610.6	3565.6	3514.9	3526.2	3526.2	3498.1	3481.2	3419.3	3343.3
17.5°	3959.6	3841.4	3866.7	3810.4	3768.2	3765.4	3740.1	3745.7	3700.7	3571.2	3455.8
20°	4229.8	4179.1	4139.7	4044.0	3979.3	3999.0	3987.7	3959.6	3945.5	3776.7	3613.4
22.5°	4471.8	4488.7	4423.9	4398.6	4308.6	4317.0	4339.5	4314.2	4207.2	4032.8	3790.7
25°	4812.3	4792.6	4705.4	4674.4	4590.0	4620.9	4708.2	4688.5	4620.9	4305.7	3928.6
27.5°	5214.7	5147.2	5164.1	5023.4	4941.7	5029.0	5133.1	5231.6	5040.2	4626.6	4091.9
30°	5499.0	5428.6	5423.0	5417.3	5397.6	5499.0	5620.0	5710.0	5555.2	4947.4	4362.0
32.5°	5639.7	5656.6	5704.4	5687.5	5859.2	6067.4	6194.1	6323.5	6129.3	5470.8	4719.4
35°	6014.0	5907.0	6014.0	6025.2	6202.5	6644.3	6804.8	7114.3	7066.5	6211.0	5155.6
37.5°	6233.5	6225.0	6239.1	6346.0	6517.7	7063.7	7291.6	7530.8	7440.8	6655.6	5698.8
40°	6596.5	6619.0	6616.2	6697.8	6886.4	7378.8	7471.7	7665.9	7674.3	7271.9	6498.0
42.5°	7179.0	7089.0	7029.9	7114.3	7378.8	7651.8	7837.6	7798.2	8076.8	8020.5	7525.2
45°	7702.5	7756.0	7668.7	7809.4	7905.1	8051.4	8045.8	8130.2	8484.8	8752.2	8299.1
47.5°	8192.2	8225.9	8268.1	8363.8	8572.1	8594.6	8546.7	8510.2	8999.8	9275.6	8898.5
50°	8484.8	8515.8	8712.8	8884.5	9272.8	9323.5	9351.6	9258.7	9590.8	9621.8	9464.2
52.5°	8406.0	8439.8	8715.6	9281.3	9900.4	10364.7	10280.3	10122.7	10103.0	10224.0	9987.6
55°	7708.1	7677.2	8057.1	8937.9	10097.4	11211.8	11223.1	11057.0	10739.0	10657.4	9908.8
56°	7114.3	6993.3	7477.3	8541.1	9844.1	11138.6	11265.3	11088.0	10789.7	10423.8	9422.0
57.5°	5828.2	5943.6	6424.8	7305.7	8968.9	10612.4	10685.5	10643.3	10418.2	9804.7	8290.7
60°	3213.8	3416.4	3841.4	4919.2	6385.4	8144.3	8203.4	8546.7	8589.0	7508.3	5704.4
62.5°	1364.9	1342.4	1784.2	2577.8	3636.0	4916.4	5026.2	5377.9	5442.7	4328.2	2862.0
65°	554.4	585.4	807.7	1297.3	1922.1	2240.1	2394.9	2510.3	2724.2	1787.0	1055.3
67.5°	365.8	363.0	475.6	740.1	1035.6	999.0	999.0	1055.3	976.5	728.9	455.9
70°	261.7	270.2	340.5	512.2	644.5	478.4	458.7	439.0	498.1	481.2	368.7
72.5°	171.7	182.9	228.0	306.7	334.9	261.7	261.7	315.2	410.9	388.4	301.1
75°	112.6	115.4	140.7	177.3	166.0	135.1	149.2	211.1	298.3	287.0	213.9
77.5°	76.0	78.8	95.7	115.4	92.9	76.0	81.6	106.9	146.3	146.3	112.6
80°	28.1	31.0	39.4	36.6	42.2	53.5	59.1	73.2	87.2	87.2	76.0
82.5°	0.0	2.8	8.4	19.7	31.0	42.2	47.8	56.3	64.7	73.2	70.4
85°	0.0	2.8	8.4	14.1	22.5	25.3	28.1	19.7	16.9	16.9	14.1
87.5°	0.0	0.0	2.8	2.8	2.8	2.8	2.8	2.8	5.6	2.8	2.8
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°	2952.1	2952.1	2952.1	2952.1	2952.1	2952.1	2952.1	2952.1	2952.1	2952.1	2952.1
2.5°	2952.1	2949.3	2949.3	2940.8	2957.7	2949.3	2954.9	2952.1	2915.5	2943.7	2924.0
5°	2983.1	3002.8	2971.8	2966.2	2943.7	2952.1	2952.1	2924.0	2949.3	2946.5	2940.8
7.5°	3061.9	3028.1	2994.3	2960.5	2954.9	2946.5	2915.5	2904.3	2924.0	2901.4	2935.2
10°	3095.6	3101.3	3050.6	3005.6	2963.4	2904.3	2862.0	2836.7	2805.8	2839.5	2859.2
12.5°	3250.4	3194.1	3106.9	3036.5	2893.0	2833.9	2791.7	2780.4	2833.9	2845.2	2825.5
15°	3303.9	3295.4	3182.9	3025.3	2876.1	2805.8	2814.2	2791.7	2797.3	2769.2	2774.8
17.5°	3413.6	3317.9	3185.7	2988.7	2873.3	2856.4	2805.8	2715.7	2665.1	2642.5	2662.2
20°	3534.6	3441.8	3250.4	3002.8	2898.6	2853.6	2687.6	2577.8	2473.7	2417.4	2420.2
22.5°	3641.6	3526.2	3222.3	3008.4	2921.1	2735.4	2535.6	2318.9	2189.5	2102.2	2105.0
25°	3771.0	3607.8	3233.5	3019.6	2862.0	2546.9	2259.8	2048.7	1894.0	1834.9	1854.6
27.5°	3844.2	3658.5	3295.4	3045.0	2707.3	2279.5	1969.9	1773.0	1682.9	1654.8	1651.9
30°	4063.7	3771.0	3371.4	2994.3	2448.4	1992.5	1705.4	1584.4	1497.2	1471.8	1477.5
32.5°	4390.2	3976.5	3469.9	2862.0	2183.8	1736.4	1533.7	1443.7	1362.1	1314.2	1308.6
35°	4663.1	4328.2	3574.0	2656.6	1877.1	1539.4	1412.7	1300.2	1176.3	1122.9	1108.8
37.5°	5183.8	4725.1	3551.5	2347.0	1584.4	1393.0	1283.3	1145.4	1038.4	965.3	956.8
40°	5876.1	5189.4	3441.8	1969.9	1367.7	1263.6	1145.4	1013.1	880.8	818.9	813.3
42.5°	6717.5	5757.9	3242.0	1587.2	1151.0	1134.1	1027.2	875.2	757.0	712.0	714.8
45°	7401.4	6244.7	3039.3	1274.8	990.6	1007.5	914.6	771.1	689.5	652.9	652.9
47.5°	8009.2	6574.0	2819.8	1052.5	841.4	880.8	799.2	714.8	644.5	616.3	610.7
50°	8594.6	6908.9	2600.3	852.7	717.6	757.0	748.6	681.0	624.8	591.0	593.8
52.5°	8960.4	6962.3	2321.7	697.9	627.6	672.6	700.7	638.8	576.9	557.2	551.6
55°	8513.0	6272.9	1801.1	574.1	531.9	591.0	644.5	574.1	526.3	492.5	489.7
56°	7910.7	5608.7	1505.6	529.1	503.7	568.5	624.8	548.8	495.3	475.6	461.5
57.5°	6697.8	4590.0	1111.6	470.0	467.2	529.1	593.8	523.4	461.5	444.6	444.6
60°	4176.3	2583.4	672.6	394.0	405.2	470.0	534.7	467.2	410.9	410.9	419.3
62.5°	1902.4	1075.0	408.1	334.9	349.0	405.2	475.6	422.1	391.2	422.1	427.8
65°	647.3	464.3	295.5	267.3	275.8	334.9	408.1	427.8	424.9	444.6	455.9
67.5°	363.0	298.3	247.7	222.3	216.7	247.7	334.9	427.8	410.9	402.4	408.1
70°	306.7	253.3	219.5	197.0	188.6	199.8	258.9	323.6	289.9	281.4	275.8
72.5°	247.7	211.1	191.4	177.3	152.0	129.5	118.2	123.8	137.9	146.3	160.4
75°	174.5	160.4	160.4	143.5	109.8	81.6	64.7	53.5	36.6	25.3	28.1
77.5°	98.5	98.5	101.3	87.2	70.4	53.5	39.4	28.1	14.1	5.6	2.8
80°	67.5	73.2	78.8	70.4	59.1	47.8	33.8	19.7	8.4	0.0	0.0
82.5°	67.5	76.0	81.6	70.4	59.1	45.0	33.8	19.7	8.4	2.8	0.0
85°	14.1	16.9	19.7	22.5	33.8	33.8	25.3	16.9	8.4	2.8	0.0
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	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)