

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: P530025

Luminaire Tested: **GALN-SA5B-727-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530025
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-727-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13910 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

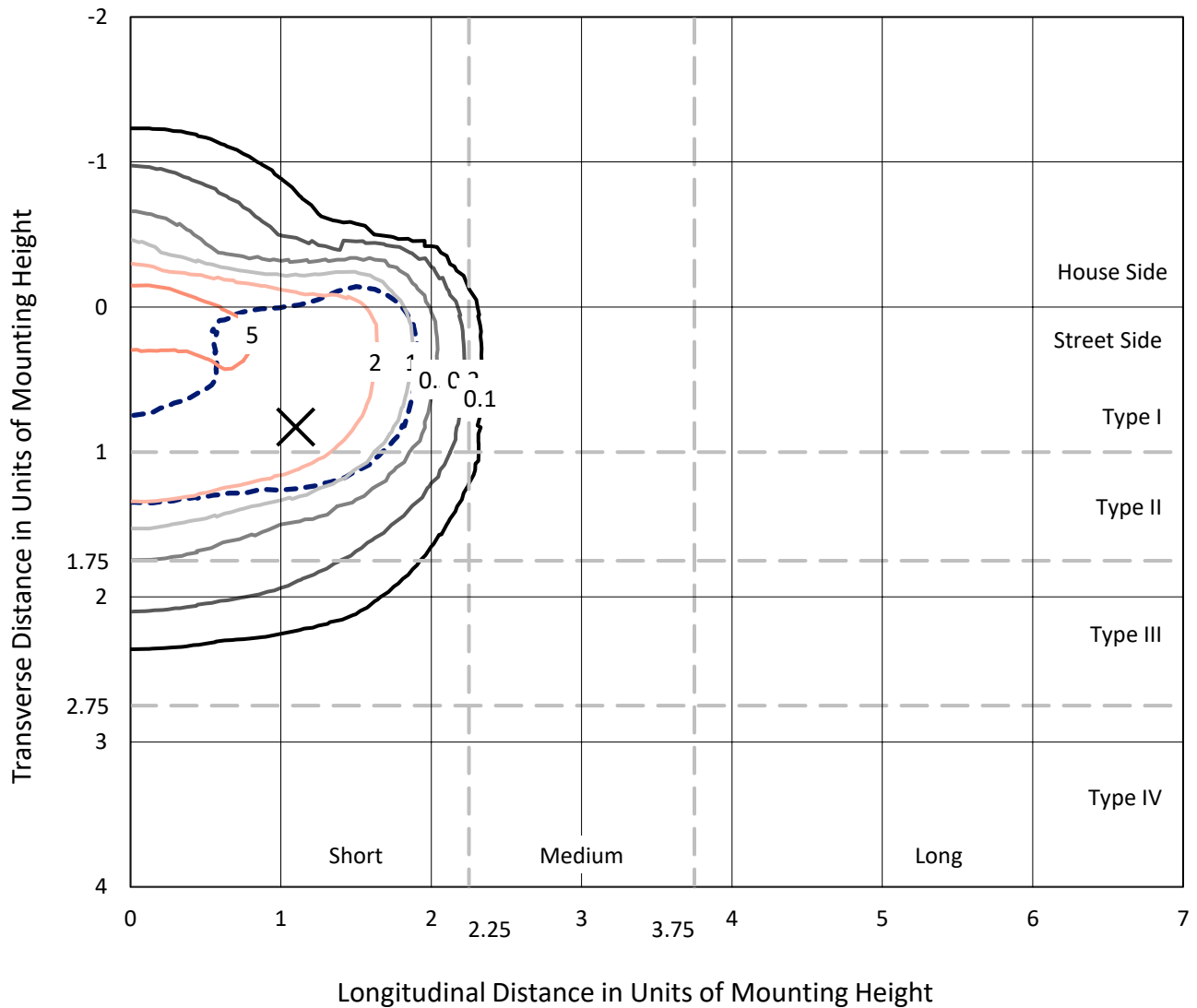
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

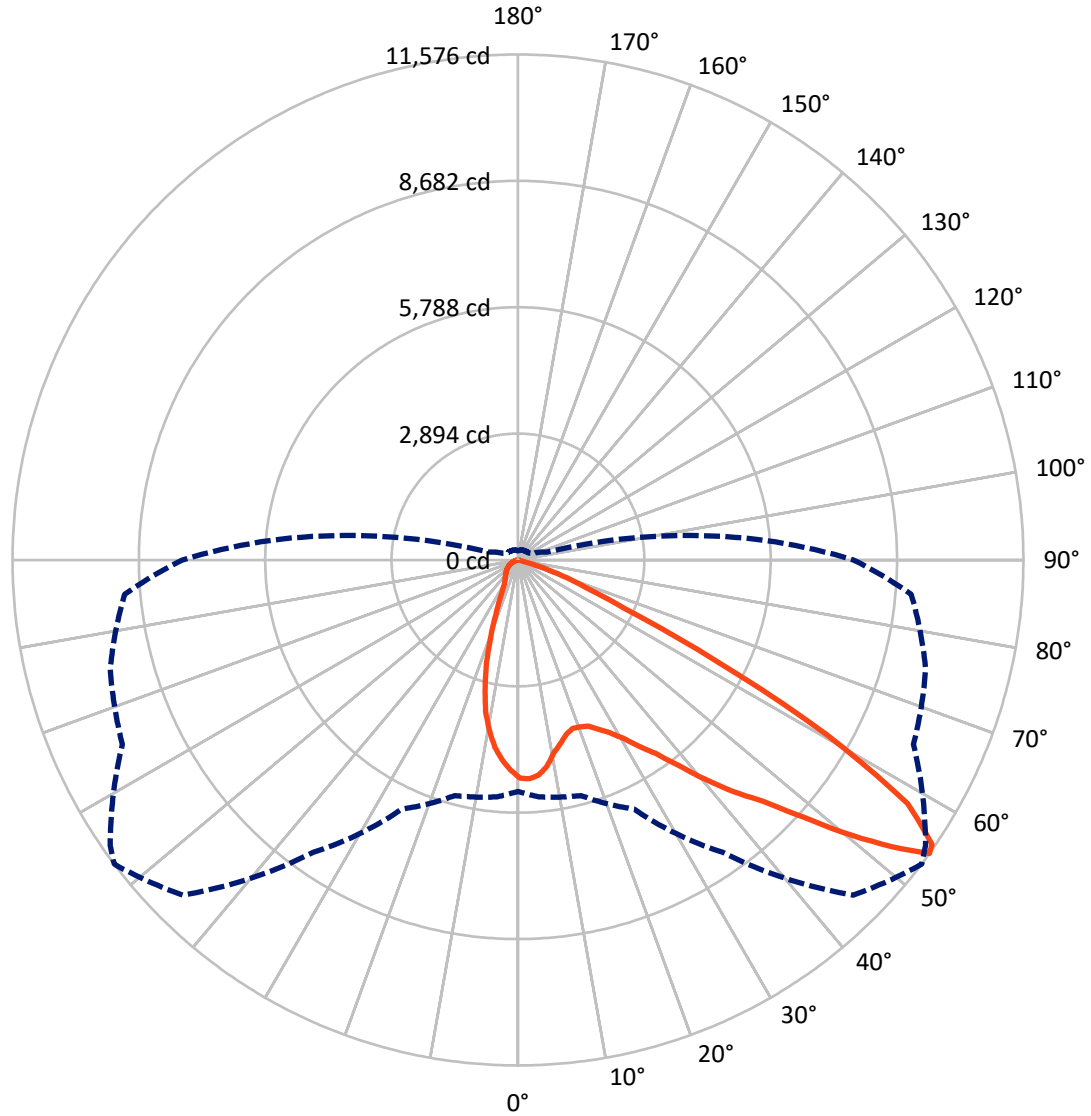
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2301.5	0.0	2301.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	11608.6	0.0	11608.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	13910.0	0.0	13910.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.7	3.1
10°-20°	982.8	7.1
20°-30°	1396.8	10.0
30°-40°	2155.6	15.5
40°-50°	3379.7	24.3
50°-60°	3926.0	28.2
60°-70°	1483.5	10.7
70°-80°	141.1	1.0
80°-90°	15.9	0.1
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°	13910.0	100.0
0°-180°	13910.0	100.0

Coefficient of Utilization



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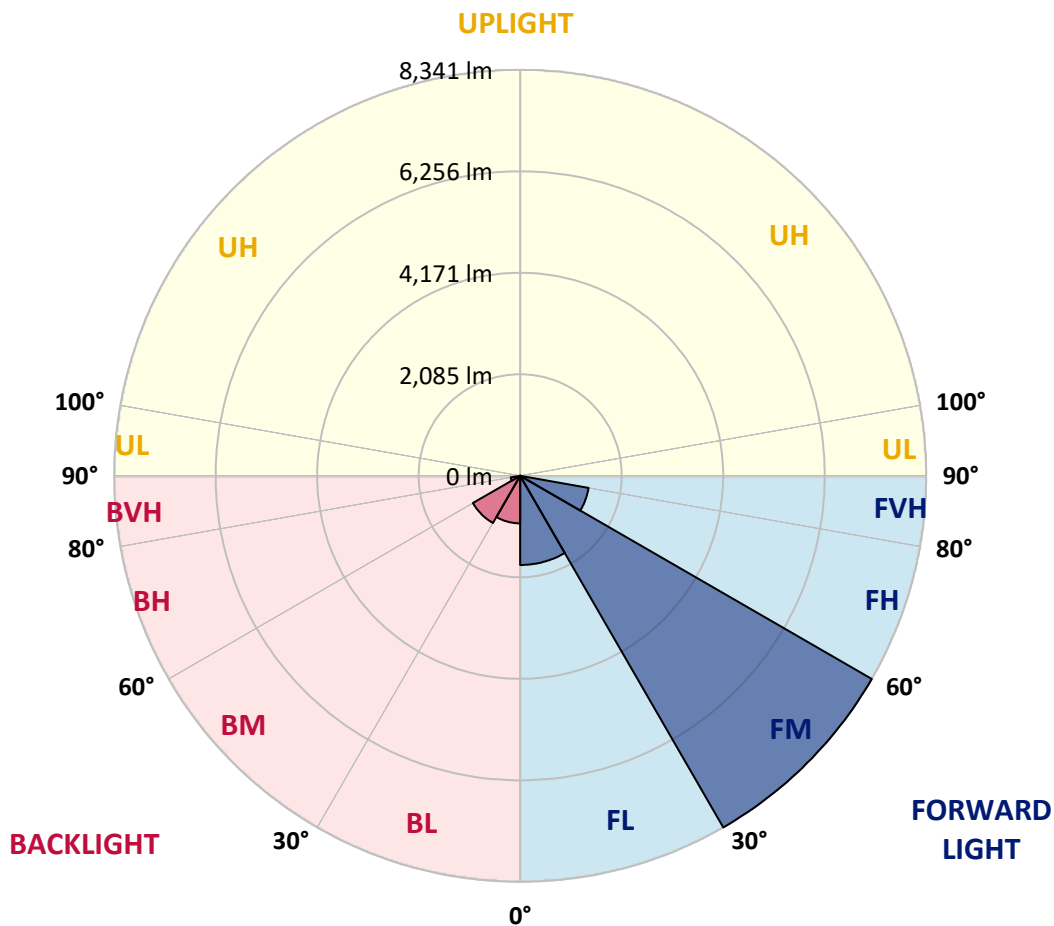
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1831.6	13.2			
FM (30°-60°)	8341.4	60.0			
FH (60°-80°)	1427.4	10.3			G1/1800
FVH (80°-90°)	8.2	0.1			G0/10
BL (0°-30°)	976.6	7.0	B2/1000		
BM (30°-60°)	1119.9	8.1	B2/2500		
BH (60°-80°)	197.2	1.4	B1/500		G1/500
BVH (80°-90°)	7.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4996.2	4996.2	4996.2	4996.2	4996.2	4996.2	4996.2	4996.2	4996.2	4996.2	4996.2
2.5°	4970.3	4926.3	4970.3	4975.5	5006.6	5035.1	5017.0	5058.4	5035.1	5009.2	5001.4
5°	4568.7	4628.3	4630.8	4724.1	4703.4	4874.4	4949.6	4928.9	5055.8	5048.1	5029.9
7.5°	4208.4	4185.1	4216.2	4325.1	4462.4	4659.4	4768.2	4765.6	4947.0	5076.6	5063.6
10°	3874.2	3871.6	3936.4	4021.9	4138.5	4345.8	4496.1	4571.2	4853.7	5050.7	5079.2
12.5°	3648.7	3638.3	3708.3	3778.3	3962.3	4122.9	4314.7	4351.0	4674.9	4960.0	5006.6
15°	3501.0	3524.3	3529.5	3664.3	3780.9	3993.4	4143.7	4218.8	4592.0	4887.4	5066.2
17.5°	3475.1	3506.2	3508.8	3620.2	3744.6	3923.4	4055.6	4156.6	4522.0	4923.7	5068.8
20°	3526.9	3508.8	3524.3	3594.3	3716.1	3887.1	4078.9	4112.6	4498.7	4941.8	5097.3
22.5°	3674.6	3669.4	3630.6	3687.6	3773.1	3951.9	4133.3	4185.1	4566.1	5035.1	5120.6
25°	3837.9	3866.4	3830.1	3822.3	3881.9	4058.1	4299.1	4366.5	4791.5	5203.6	5193.2
27.5°	4143.7	4115.2	4115.2	4078.9	4063.3	4148.8	4478.0	4589.4	5042.9	5421.2	5276.1
30°	4436.5	4467.6	4444.3	4457.2	4353.6	4345.8	4731.9	4869.3	5488.6	5752.9	5452.3
32.5°	4900.4	4858.9	4897.8	4864.1	4726.7	4586.8	5076.6	5219.1	6027.6	6133.9	5716.6
35°	5286.5	5268.3	5434.2	5429.0	5206.1	5068.8	5442.0	5654.5	6403.4	6590.0	6027.6
37.5°	5835.9	5802.2	5991.3	6082.0	5882.5	5677.8	5965.4	6211.6	6753.2	6955.3	6346.4
40°	6400.8	6486.3	6740.3	6890.6	6678.1	6406.0	6605.5	6680.7	6986.4	7193.8	6564.0
42.5°	7116.0	7240.4	7499.5	7629.1	7611.0	7315.5	7255.9	7253.4	7154.9	7126.4	6724.7
45°	7802.7	7756.1	8155.2	8437.6	8665.7	8580.2	7883.1	7805.3	7421.8	7227.4	6766.2
47.5°	8103.3	8087.8	8359.9	8862.6	9640.0	9746.3	8795.2	8494.6	7872.7	7652.4	6991.6
50°	7714.6	7795.0	8064.5	8621.6	9813.7	10624.8	9914.7	9510.5	8398.8	8170.7	7525.5
52.5°	6444.8	6499.3	6755.8	7463.3	9222.8	11143.1	10987.6	10754.3	9365.4	8987.0	8455.8
54°	5299.4	5444.6	5584.5	6294.5	8170.7	10855.4	11575.8	11397.0	9995.1	9666.0	9041.4
55°	4615.3	4700.8	4801.9	5509.3	7442.5	10368.2	11508.4	11524.0	10417.5	9878.5	9435.3
57.5°	3371.4	3431.0	3327.4	3640.9	5110.3	8419.5	10526.3	10946.1	10987.6	10197.2	9676.3
60°	2575.9	2601.8	2485.2	2534.4	3177.1	5778.8	8142.2	8647.5	9912.1	8911.9	8196.6
62.5°	1998.0	2003.2	2000.6	2086.1	2189.7	3399.9	5092.1	5540.4	6833.5	6328.2	5566.3
65°	1471.9	1448.6	1490.1	1749.2	1868.4	2137.9	2682.1	3008.6	3713.5	3135.6	2241.6
67.5°	953.6	961.4	1002.9	1300.9	1601.5	1640.4	1650.7	1624.8	1627.4	896.6	562.3
70°	572.7	585.7	572.7	736.0	1145.4	1176.5	1075.4	1049.5	818.9	212.5	209.9
72.5°	339.5	321.3	287.6	316.2	476.8	570.1	513.1	510.5	321.3	124.4	124.4
75°	142.5	129.6	106.2	95.9	127.0	121.8	121.8	108.8	85.5	82.9	77.7
77.5°	28.5	28.5	20.7	23.3	31.1	36.3	44.1	44.1	51.8	51.8	49.2
80°	0.0	2.6	7.8	15.5	23.3	33.7	38.9	38.9	44.1	44.1	36.3
82.5°	0.0	2.6	7.8	15.5	20.7	31.1	38.9	38.9	44.1	46.6	38.9
85°	0.0	2.6	7.8	13.0	20.7	25.9	25.9	23.3	18.1	15.5	10.4
87.5°	0.0	0.0	2.6	5.2	2.6	5.2	5.2	5.2	5.2	5.2	5.2
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°	4996.2	4996.2	4996.2	4996.2	4996.2	4996.2	4996.2	4996.2	4996.2	4996.2	4996.2
2.5°	5019.6	5017.0	4954.8	4853.7	4830.4	4744.9	4734.5	4682.7	4711.2	4615.3	4604.9
5°	4978.1	4947.0	4871.8	4807.1	4617.9	4483.1	4376.9	4247.3	4172.2	4185.1	4135.9
7.5°	5037.7	4957.4	4825.2	4599.8	4369.1	4133.3	4006.3	3742.0	3646.1	3503.6	3482.9
10°	4975.5	4915.9	4711.2	4338.0	4019.3	3679.8	3381.8	3089.0	2866.1	2770.2	2749.5
12.5°	4970.3	4866.7	4524.6	4110.0	3648.7	3161.5	2728.8	2363.4	2143.1	2018.7	1990.2
15°	4890.0	4765.6	4314.7	3757.5	3120.1	2513.7	2042.0	1689.6	1521.2	1448.6	1469.3
17.5°	4897.8	4711.2	4104.8	3384.4	2599.2	1845.1	1394.2	1212.8	1168.7	1186.9	1186.9
20°	4890.0	4589.4	3850.8	2954.2	1990.2	1280.2	1023.6	958.8	987.3	1044.3	1031.4
22.5°	4848.5	4532.4	3617.6	2500.7	1464.1	948.5	821.5	824.1	868.1	938.1	953.6
25°	4879.6	4405.4	3322.2	2042.0	1067.7	756.7	712.6	730.8	777.4	829.3	839.6
27.5°	4856.3	4314.7	3013.8	1585.9	780.0	650.4	647.9	668.6	689.3	728.2	728.2
30°	4882.2	4231.8	2710.6	1179.1	642.7	596.0	585.7	601.2	621.9	629.7	627.1
32.5°	4978.1	4169.6	2360.8	881.1	567.5	544.2	544.2	544.2	541.6	552.0	554.6
35°	5188.0	4179.9	2052.4	681.5	518.3	500.1	492.4	482.0	476.8	482.0	484.6
37.5°	5416.0	4174.8	1733.7	580.5	482.0	466.5	448.3	432.8	430.2	435.4	427.6
40°	5517.1	4224.0	1438.2	520.9	448.3	430.2	401.7	388.7	391.3	396.5	391.3
42.5°	5654.5	4239.5	1246.5	474.2	417.2	388.7	370.6	355.0	352.4	360.2	357.6
45°	5651.9	4151.4	1044.3	448.3	388.7	357.6	334.3	321.3	321.3	326.5	329.1
47.5°	5817.7	4138.5	896.6	425.0	368.0	336.9	308.4	298.0	295.4	295.4	290.2
50°	6203.8	4319.9	782.6	399.1	342.1	313.6	290.2	277.3	266.9	261.7	259.1
52.5°	6957.9	4884.8	694.5	368.0	313.6	290.2	269.5	259.1	246.2	233.2	230.6
54°	7688.7	5467.9	689.3	342.1	290.2	274.7	256.5	251.4	235.8	217.7	212.5
55°	8017.8	5807.3	707.5	321.3	274.7	264.3	248.8	243.6	228.0	207.3	204.7
57.5°	8289.9	5939.5	697.1	266.9	248.8	246.2	233.2	225.5	207.3	178.8	173.6
60°	6672.9	4490.9	500.1	235.8	228.0	222.9	212.5	207.3	184.0	152.9	150.3
62.5°	4216.2	2583.6	318.7	207.3	199.5	191.8	178.8	173.6	152.9	121.8	114.0
65°	1795.8	1070.3	215.1	184.0	171.0	158.1	147.7	139.9	121.8	90.7	88.1
67.5°	466.5	380.9	178.8	160.7	142.5	124.4	116.6	103.7	82.9	62.2	59.6
70°	209.9	191.8	150.3	134.8	114.0	95.9	85.5	72.6	54.4	41.5	38.9
72.5°	124.4	121.8	114.0	101.1	85.5	72.6	62.2	49.2	36.3	23.3	23.3
75°	77.7	75.2	77.7	70.0	59.6	54.4	46.6	33.7	20.7	10.4	10.4
77.5°	46.6	46.6	46.6	44.1	41.5	41.5	33.7	20.7	10.4	2.6	2.6
80°	36.3	36.3	38.9	36.3	36.3	36.3	28.5	15.5	5.2	0.0	0.0
82.5°	36.3	38.9	44.1	41.5	36.3	31.1	25.9	15.5	5.2	0.0	0.0
85°	10.4	7.8	13.0	18.1	25.9	23.3	18.1	13.0	5.2	0.0	0.0
87.5°	5.2	5.2	5.2	5.2	2.6	2.6	2.6	2.6	2.6	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)