

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: P648039

Luminaire Tested: **GALN-SA7A-835-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648039
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-SA7A-835-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 615mA 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: 14557.5 lumens
Efficiency: N/A
Efficacy: 67.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

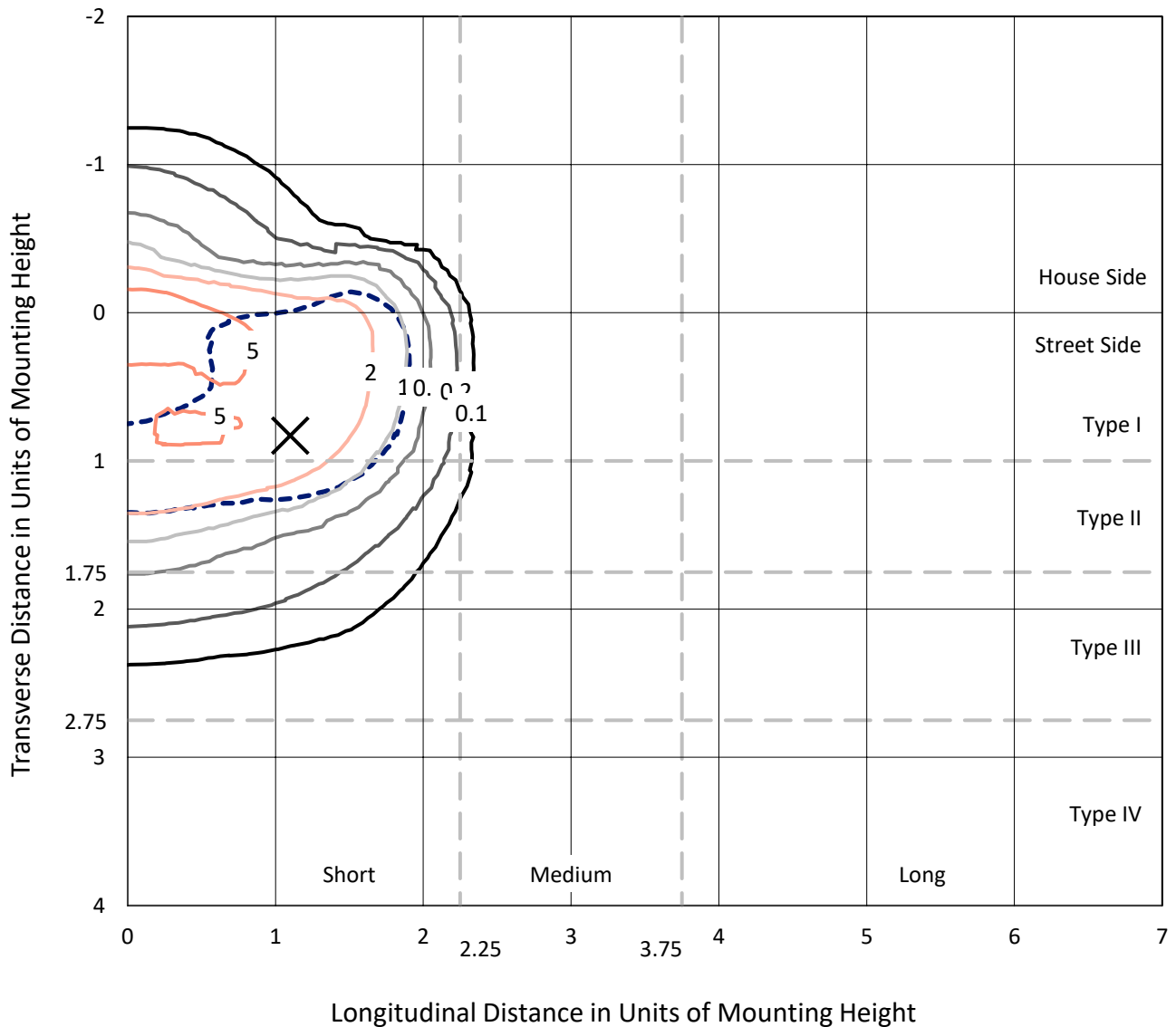
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

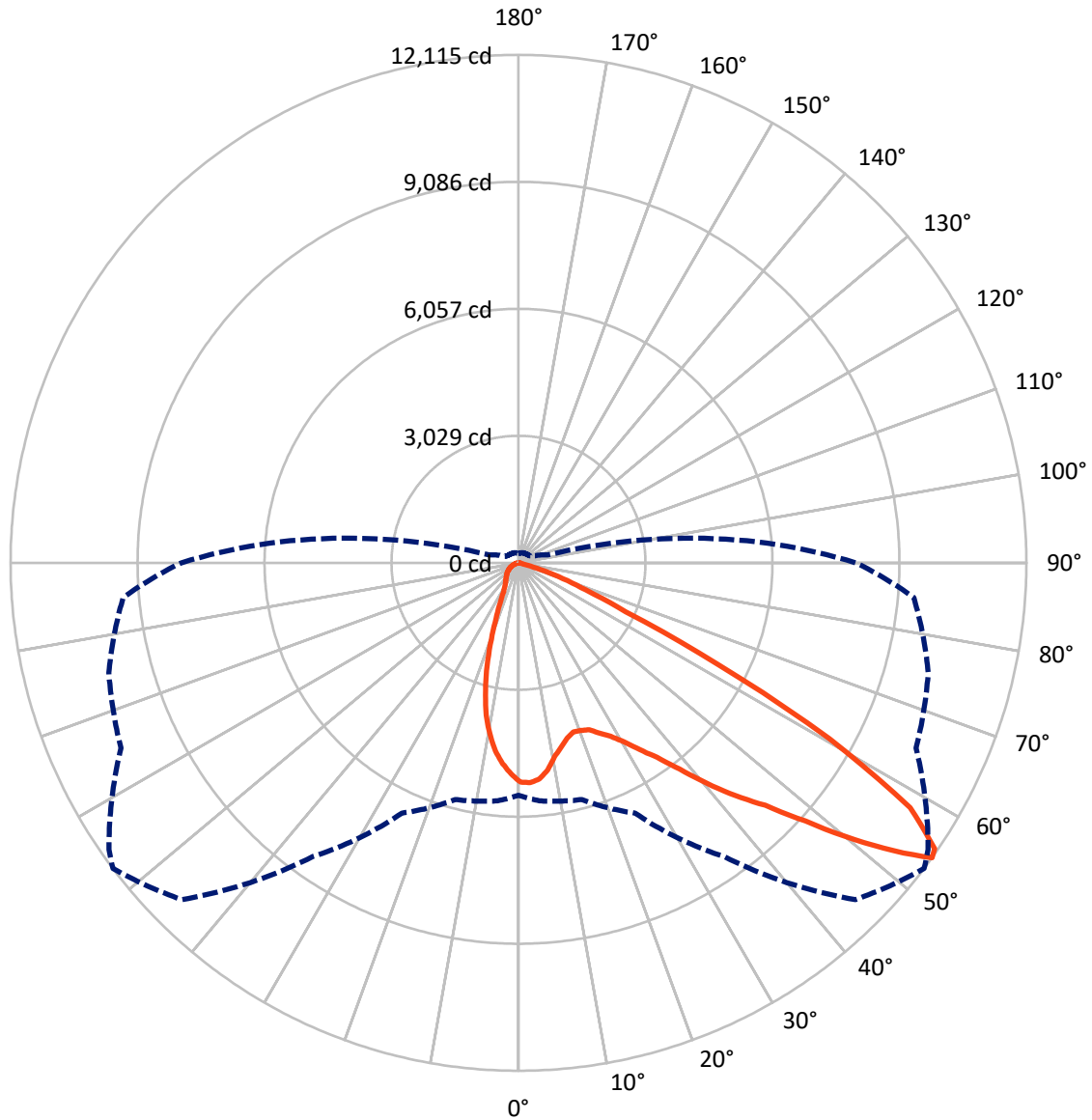
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	2408.6	0.0	2408.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	12149.0	0.0	12149.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	14557.5	0.0	14557.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.6	3.1
10°-20°	1028.5	7.1
20°-30°	1461.8	10.0
30°-40°	2255.9	15.5
40°-50°	3537.1	24.3
50°-60°	4108.8	28.2
60°-70°	1552.5	10.7
70°-80°	147.6	1.0
80°-90°	16.6	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°	14557.5	100.0
0°-180°	14557.5	100.0

Coefficient of Utilization



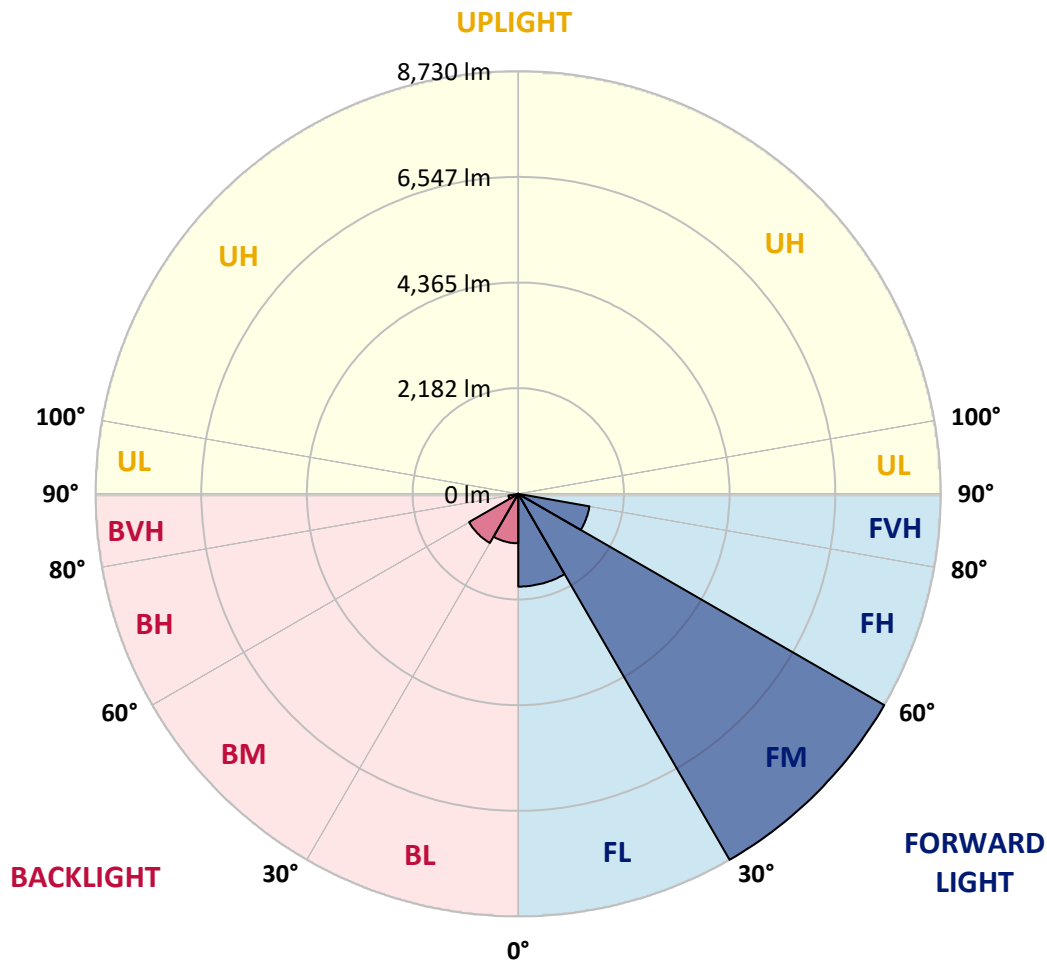
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1916.9	13.2			
FM (30°-60°)	8729.7	60.0			
FH (60°-80°)	1493.8	10.3			G1/1800
FVH (80°-90°)	8.6	0.1			G0/10
BL (0°-30°)	1022.1	7.0	B3/2500		
BM (30°-60°)	1172.1	8.1	B2/2500		
BH (60°-80°)	206.4	1.4	B1/500		G1/500
BVH (80°-90°)	8.0	0.1			G0/10
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°	53°	55°	65°	75°	85°
0°	5228.8	5228.8	5228.8	5228.8	5228.8	5228.8	5228.8	5228.8	5228.8	5228.8	5228.8
2.5°	5201.7	5155.6	5201.7	5207.1	5239.7	5269.5	5250.5	5293.9	5269.5	5242.4	5234.3
5°	4781.3	4843.7	4846.5	4944.0	4922.3	5101.3	5180.0	5158.3	5291.2	5283.1	5264.1
7.5°	4404.4	4379.9	4412.5	4526.4	4670.1	4876.3	4990.1	4987.5	5177.3	5312.9	5299.3
10°	4054.5	4051.8	4119.6	4209.1	4331.2	4548.1	4705.4	4784.1	5079.6	5285.8	5315.6
12.5°	3818.5	3807.7	3880.9	3954.2	4146.7	4314.9	4515.6	4553.5	4892.5	5190.8	5239.7
15°	3664.0	3688.4	3693.8	3834.8	3956.9	4179.3	4336.6	4415.2	4805.7	5114.9	5302.1
17.5°	3636.9	3669.4	3672.1	3788.7	3918.9	4106.1	4244.3	4350.1	4732.5	5152.9	5304.7
20°	3691.1	3672.1	3688.4	3761.6	3889.1	4068.1	4268.8	4304.0	4708.1	5171.9	5334.6
22.5°	3845.7	3840.2	3799.6	3859.3	3948.7	4135.9	4325.7	4379.9	4778.6	5269.5	5359.0
25°	4016.6	4046.4	4008.4	4000.3	4062.7	4247.1	4499.3	4569.8	5014.6	5445.8	5435.0
27.5°	4336.6	4306.7	4306.7	4268.8	4252.5	4342.0	4686.4	4803.0	5277.7	5673.6	5521.7
30°	4643.0	4675.5	4651.2	4664.7	4556.2	4548.1	4952.2	5095.9	5744.1	6020.7	5706.1
32.5°	5128.5	5085.1	5125.8	5090.5	4946.8	4800.3	5312.9	5462.1	6308.2	6419.4	5982.7
35°	5532.6	5513.6	5687.2	5681.8	5448.5	5304.7	5695.3	5917.7	6701.5	6896.7	6308.2
37.5°	6107.6	6072.2	6270.3	6365.2	6156.3	5942.1	6243.1	6500.8	7067.6	7279.2	6641.8
40°	6698.7	6788.2	7054.0	7211.4	6988.9	6704.2	6913.0	6991.6	7311.7	7528.6	6869.6
42.5°	7447.3	7577.5	7848.6	7984.3	7965.3	7656.1	7593.7	7591.0	7488.0	7458.2	7037.8
45°	8166.0	8117.1	8534.8	8830.4	9069.1	8979.6	8250.0	8168.6	7767.3	7563.9	7081.1
47.5°	8480.6	8464.3	8749.1	9275.2	10088.8	10200.0	9204.7	8890.1	8239.2	8008.7	7317.1
50°	8073.7	8157.8	8439.9	9023.0	10270.5	11119.4	10376.3	9953.2	8789.7	8551.1	7875.8
52.5°	6744.8	6801.8	7070.3	7810.7	9652.2	11661.8	11499.1	11255.0	9801.4	9405.4	8849.4
54°	5546.1	5698.0	5844.5	6587.5	8551.1	11360.8	12114.7	11927.6	10460.3	10115.9	9462.3
55°	4830.2	4919.7	5025.5	5765.8	7789.0	10850.9	12044.2	12060.5	10902.4	10338.3	9874.6
57.5°	3528.4	3590.8	3482.2	3810.4	5348.1	8811.4	11016.3	11455.7	11499.1	10671.9	10126.8
60°	2695.8	2722.9	2600.8	2652.4	3324.9	6047.9	8521.2	9050.1	10373.6	9326.7	8578.2
62.5°	2091.0	2096.4	2093.7	2183.2	2291.7	3558.2	5329.2	5798.3	7151.7	6622.8	5825.4
65°	1540.5	1516.0	1559.4	1830.7	1955.4	2237.4	2807.0	3148.7	3886.3	3281.6	2345.9
67.5°	998.0	1006.2	1049.5	1361.5	1676.0	1716.7	1727.6	1700.4	1703.2	938.3	588.5
70°	599.4	612.9	599.4	770.2	1198.7	1231.3	1125.5	1098.4	857.0	222.4	219.7
72.5°	355.2	336.3	301.1	330.9	499.0	596.6	537.0	534.2	336.3	130.2	130.2
75°	149.2	135.6	111.2	100.4	132.9	127.5	127.5	113.9	89.5	86.8	81.4
77.5°	29.8	29.8	21.7	24.4	32.6	38.0	46.1	46.1	54.3	54.3	51.5
80°	0.0	2.7	8.1	16.3	24.4	35.2	40.7	40.7	46.1	46.1	38.0
82.5°	0.0	2.7	8.1	16.3	21.7	32.6	40.7	40.7	46.1	48.8	40.7
85°	0.0	2.7	8.1	13.5	21.7	27.1	27.1	24.4	18.9	16.3	10.9
87.5°	0.0	0.0	2.7	5.4	2.7	5.4	5.4	5.4	5.4	5.4	5.4
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°	5228.8	5228.8	5228.8	5228.8	5228.8	5228.8	5228.8	5228.8	5228.8	5228.8	5228.8
2.5°	5253.2	5250.5	5185.4	5079.6	5055.3	4965.8	4954.9	4900.6	4930.5	4830.2	4819.3
5°	5209.8	5177.3	5098.7	5030.9	4832.8	4691.8	4580.6	4445.0	4366.4	4379.9	4328.4
7.5°	5272.3	5188.2	5049.8	4813.9	4572.5	4325.7	4192.8	3916.2	3815.9	3666.7	3645.0
10°	5207.1	5144.8	4930.5	4540.0	4206.4	3851.1	3539.2	3232.8	2999.5	2899.2	2877.4
12.5°	5201.7	5093.3	4735.2	4301.3	3818.5	3308.7	2855.8	2473.4	2242.8	2112.7	2082.9
15°	5117.6	4987.5	4515.6	3932.5	3265.3	2630.6	2137.1	1768.2	1592.0	1516.0	1537.7
17.5°	5125.8	4930.5	4295.9	3541.9	2720.1	1931.0	1459.0	1269.2	1223.1	1242.2	1242.2
20°	5117.6	4803.0	4030.1	3091.8	2082.9	1339.7	1071.2	1003.5	1033.3	1093.0	1079.4
22.5°	5074.2	4743.3	3786.0	2617.1	1532.3	992.6	859.7	862.4	908.5	981.7	998.0
25°	5106.8	4610.5	3476.8	2137.1	1117.3	791.9	745.8	764.8	813.6	867.9	878.7
27.5°	5082.4	4515.6	3154.1	1659.8	816.4	680.7	678.0	699.7	721.4	762.1	762.1
30°	5109.5	4428.8	2836.8	1234.0	672.6	623.7	612.9	629.2	650.9	659.1	656.3
32.5°	5209.8	4363.7	2470.7	922.1	593.9	569.6	569.6	569.6	566.8	577.7	580.4
35°	5429.5	4374.5	2147.9	713.2	542.4	523.4	515.3	504.4	499.0	504.4	507.1
37.5°	5668.1	4369.1	1814.4	607.5	504.4	488.2	469.2	452.9	450.2	455.6	447.5
40°	5773.9	4420.7	1505.2	545.1	469.2	450.2	420.4	406.8	409.5	414.9	409.5
42.5°	5917.7	4436.9	1304.5	496.3	436.6	406.8	387.8	371.5	368.9	376.9	374.3
45°	5914.9	4344.7	1093.0	469.2	406.8	374.3	349.8	336.3	336.3	341.7	344.4
47.5°	6088.5	4331.2	938.3	444.7	385.1	352.6	322.8	311.9	309.2	309.2	303.7
50°	6492.6	4521.0	819.0	417.7	358.0	328.2	303.7	290.2	279.4	273.9	271.2
52.5°	7281.8	5112.2	726.9	385.1	328.2	303.7	282.0	271.2	257.6	244.1	241.4
54°	8046.7	5722.4	721.4	358.0	303.7	287.4	268.5	263.1	246.8	227.8	222.4
55°	8391.1	6077.7	740.4	336.3	287.4	276.6	260.3	254.9	238.7	217.0	214.2
57.5°	8675.8	6216.0	729.5	279.4	260.3	257.6	244.1	235.9	217.0	187.1	181.7
60°	6983.5	4700.0	523.4	246.8	238.7	233.3	222.4	217.0	192.5	160.0	157.3
62.5°	4412.5	2703.9	333.6	217.0	208.8	200.7	187.1	181.7	160.0	127.5	119.3
65°	1879.4	1120.1	225.1	192.5	179.0	165.4	154.6	146.4	127.5	94.9	92.2
67.5°	488.2	398.7	187.1	168.1	149.2	130.2	122.1	108.4	86.8	65.1	62.4
70°	219.7	200.7	157.3	141.0	119.3	100.4	89.5	76.0	56.9	43.4	40.7
72.5°	130.2	127.5	119.3	105.8	89.5	76.0	65.1	51.5	38.0	24.4	24.4
75°	81.4	78.6	81.4	73.2	62.4	56.9	48.8	35.2	21.7	10.9	10.9
77.5°	48.8	48.8	48.8	46.1	43.4	43.4	35.2	21.7	10.9	2.7	2.7
80°	38.0	38.0	40.7	38.0	38.0	38.0	29.8	16.3	5.4	0.0	0.0
82.5°	38.0	40.7	46.1	43.4	38.0	32.6	27.1	16.3	5.4	0.0	0.0
85°	10.9	8.1	13.5	18.9	27.1	24.4	18.9	13.5	5.4	0.0	0.0
87.5°	5.4	5.4	5.4	5.4	2.7	2.7	2.7	2.7	2.7	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)