

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: P647516

Luminaire Tested: **GALN-SA6D-835-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647516
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-SA6D-835-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1200mA 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: 21449.5 lumens
Efficiency: N/A
Efficacy: 58.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

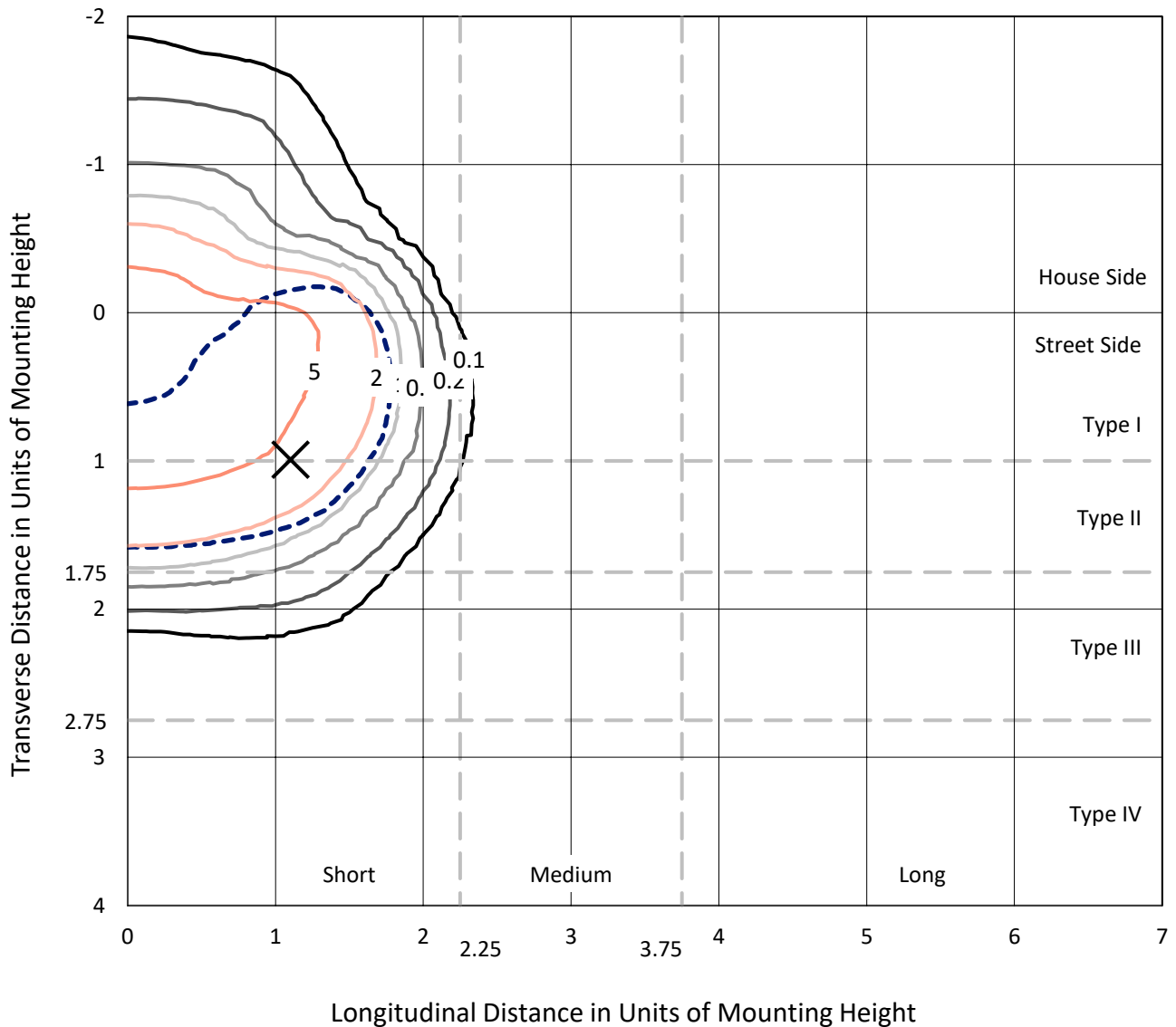
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

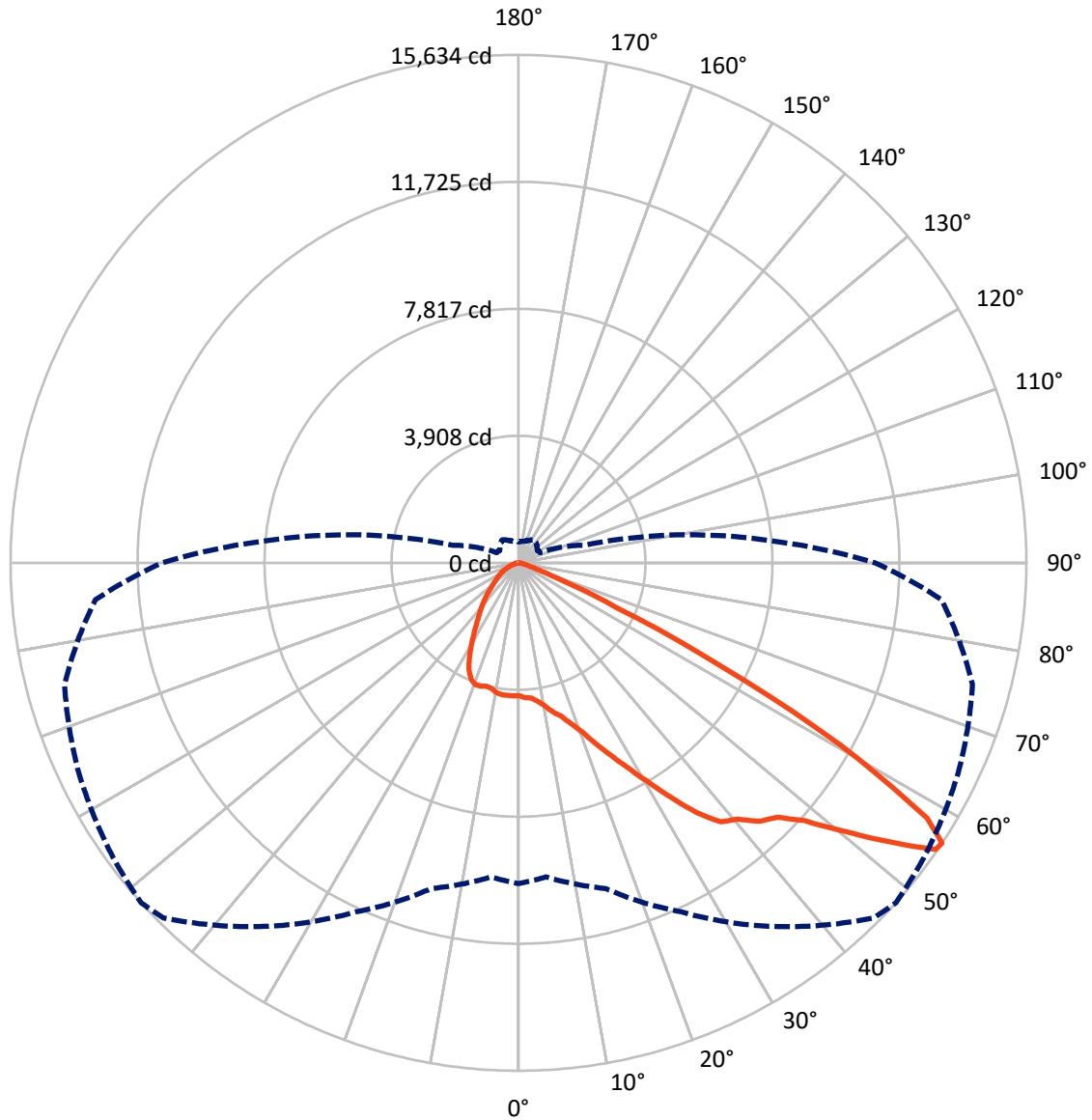
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	4664.9	0.0	4664.9
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	16784.6	0.0	16784.6
	% Fixture	78.3	0.0	78.3
Total	Lumens	21449.5	0.0	21449.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.1	1.9
10°-20°	1275.4	5.9
20°-30°	2313.3	10.8
30°-40°	3633.7	16.9
40°-50°	5301.0	24.7
50°-60°	6386.6	29.8
60°-70°	1869.9	8.7
70°-80°	237.2	1.1
80°-90°	33.3	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°	21449.5	100.0
0°-180°	21449.5	100.0

Coefficient of Utilization

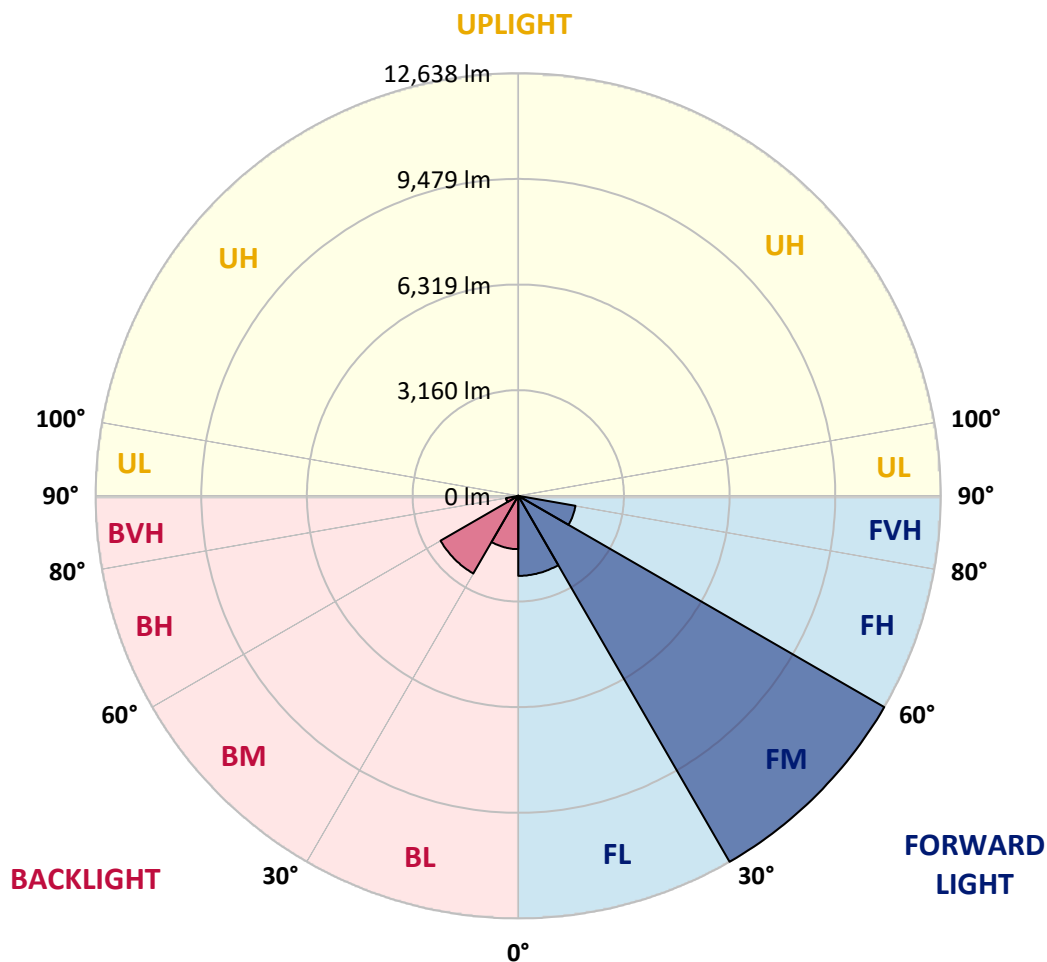


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2393.3	11.2			
FM (30°-60°)	12638.1	58.9			
FH (60°-80°)	1736.5	8.1			G1/1800
FVH (80°-90°)	16.7	0.1			G1/100
BL (0°-30°)	1594.4	7.4	B3/2500		
BM (30°-60°)	2683.2	12.5	B3/5000		
BH (60°-80°)	370.7	1.7	B1/500		G1/500
BVH (80°-90°)	16.6	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°	4096.9	4096.9	4096.9	4096.9	4096.9	4096.9	4096.9	4096.9	4096.9	4096.9	4096.9
2.5°	4171.0	4151.5	4151.5	4120.3	4155.5	4139.8	4151.5	4112.5	4151.5	4093.0	4139.8
5°	4190.6	4194.5	4178.9	4198.4	4198.4	4221.9	4182.8	4217.9	4237.4	4194.5	4175.0
7.5°	4292.2	4299.9	4296.0	4280.4	4311.7	4307.8	4303.8	4276.5	4284.3	4268.7	4245.3
10°	4491.3	4487.5	4506.9	4467.9	4444.5	4471.8	4479.6	4436.6	4405.4	4393.6	4319.5
12.5°	4780.3	4733.5	4706.1	4667.1	4678.8	4639.7	4710.1	4635.8	4620.2	4549.9	4475.7
15°	5014.6	5006.8	5010.7	4948.2	4877.9	4893.6	4893.6	4854.5	4831.1	4745.2	4639.7
17.5°	5495.0	5331.0	5366.1	5288.1	5229.4	5225.6	5190.4	5198.2	5135.7	4956.1	4796.0
20°	5870.0	5799.7	5744.9	5612.2	5522.3	5549.7	5534.1	5495.0	5475.5	5241.2	5014.6
22.5°	6205.8	6229.2	6139.4	6104.3	5979.3	5991.0	6022.3	5987.1	5838.8	5596.6	5260.7
25°	6678.4	6651.0	6530.0	6487.0	6369.9	6412.8	6533.9	6506.6	6412.8	5975.4	5452.1
27.5°	7236.9	7143.2	7166.6	6971.3	6858.1	6979.1	7123.7	7260.3	6994.8	6420.6	5678.6
30°	7631.4	7533.7	7525.9	7518.1	7490.7	7631.4	7799.3	7924.3	7709.4	6865.9	6053.5
32.5°	7826.6	7850.0	7916.4	7893.0	8131.2	8420.2	8596.0	8775.6	8506.2	7592.3	6549.5
35°	8346.1	8197.6	8346.1	8361.7	8607.7	9220.8	9443.4	9873.1	9806.7	8619.4	7154.9
37.5°	8650.7	8638.9	8658.5	8806.9	9045.1	9802.8	10119.1	10451.1	10326.1	9236.5	7908.6
40°	9154.4	9185.7	9181.8	9295.1	9556.7	10240.2	10369.1	10638.5	10650.3	10091.8	9017.8
42.5°	9962.9	9837.9	9755.9	9873.1	10240.2	10619.0	10876.8	10822.2	11208.8	11130.7	10443.3
45°	10689.4	10763.5	10642.5	10837.7	10970.5	11173.6	11165.8	11283.0	11775.1	12146.1	11517.3
47.5°	11368.9	11415.7	11474.3	11607.1	11896.1	11927.4	11861.0	11810.2	12489.8	12872.5	12349.2
50°	11775.1	11818.1	12091.4	12329.7	12868.6	12938.9	12978.0	12849.1	13309.9	13352.9	13134.2
52.5°	11665.7	11712.6	12095.3	12880.4	13739.5	14383.9	14266.8	14048.0	14020.7	14188.7	13860.6
55°	10697.2	10654.2	11181.4	12403.8	14012.9	15559.5	15575.1	15344.7	14903.4	14790.1	13751.3
56°	9873.1	9705.1	10376.9	11853.2	13661.4	15458.0	15633.7	15387.7	14973.7	14465.9	13075.6
57.5°	8088.3	8248.4	8916.3	10138.7	12446.8	14727.6	14829.2	14770.6	14458.2	13606.7	11505.6
60°	4460.0	4741.3	5331.0	6826.8	8861.6	11302.5	11384.5	11861.0	11919.6	10419.9	7916.4
62.5°	1894.2	1862.9	2476.1	3577.4	5045.9	6822.9	6975.2	7463.4	7553.2	6006.6	3971.9
65°	769.4	812.4	1120.9	1800.4	2667.4	3108.7	3323.6	3483.7	3780.5	2480.0	1464.5
67.5°	507.7	503.8	660.0	1027.1	1437.2	1386.5	1386.5	1464.5	1355.2	1011.6	632.7
70°	363.2	374.9	472.5	710.8	894.3	663.9	636.6	609.3	691.3	667.8	511.6
72.5°	238.3	253.8	316.3	425.7	464.8	363.2	363.2	437.4	570.2	538.9	417.9
75°	156.2	160.1	195.3	246.0	230.4	187.5	207.0	292.9	414.0	398.4	296.8
77.5°	105.5	109.4	132.8	160.1	128.9	105.5	113.2	148.4	203.1	203.1	156.2
80°	39.1	43.0	54.7	50.7	58.6	74.2	82.0	101.6	121.1	121.1	105.5
82.5°	0.0	3.9	11.7	27.3	43.0	58.6	66.4	78.1	89.8	101.6	97.6
85°	0.0	3.9	11.7	19.5	31.2	35.2	39.1	27.3	23.4	23.4	19.5
87.5°	0.0	0.0	3.9	3.9	3.9	3.9	3.9	3.9	7.8	3.9	3.9
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°	4096.9	4096.9	4096.9	4096.9	4096.9	4096.9	4096.9	4096.9	4096.9	4096.9	4096.9
2.5°	4096.9	4093.0	4093.0	4081.2	4104.6	4093.0	4100.8	4096.9	4046.1	4085.1	4057.8
5°	4139.8	4167.1	4124.2	4116.4	4085.1	4096.9	4096.9	4057.8	4093.0	4089.1	4081.2
7.5°	4249.2	4202.3	4155.5	4108.6	4100.8	4089.1	4046.1	4030.5	4057.8	4026.6	4073.4
10°	4296.0	4303.8	4233.5	4171.0	4112.5	4030.5	3971.9	3936.8	3893.8	3940.7	3968.0
12.5°	4510.9	4432.7	4311.7	4214.0	4014.8	3932.9	3874.3	3858.6	3932.9	3948.4	3921.1
15°	4585.0	4573.3	4417.1	4198.4	3991.4	3893.8	3905.5	3874.3	3882.0	3843.0	3850.8
17.5°	4737.4	4604.6	4421.1	4147.6	3987.5	3964.1	3893.8	3768.8	3698.5	3667.3	3694.6
20°	4905.3	4776.5	4510.9	4167.1	4022.7	3960.2	3729.7	3577.4	3432.9	3354.8	3358.8
22.5°	5053.7	4893.6	4471.8	4175.0	4053.9	3796.1	3518.9	3218.1	3038.5	2917.4	2921.3
25°	5233.3	5006.8	4487.5	4190.6	3971.9	3534.5	3136.1	2843.2	2628.4	2546.4	2573.7
27.5°	5334.9	5077.1	4573.3	4225.8	3757.1	3163.5	2733.8	2460.5	2335.5	2296.5	2292.5
30°	5639.6	5233.3	4678.8	4155.5	3397.8	2765.1	2366.7	2198.8	2077.7	2042.6	2050.4
32.5°	6092.6	5518.4	4815.4	3971.9	3030.7	2409.7	2128.5	2003.5	1890.2	1823.8	1816.1
35°	6471.4	6006.6	4960.0	3686.8	2605.0	2136.3	1960.6	1804.3	1632.5	1558.3	1538.8
37.5°	7193.9	6557.3	4928.8	3257.2	2198.8	1933.2	1780.9	1589.6	1441.1	1339.6	1327.9
40°	8154.7	7201.7	4776.5	2733.8	1898.1	1753.5	1589.6	1406.0	1222.4	1136.5	1128.7
42.5°	9322.4	7990.7	4499.1	2202.7	1597.3	1573.9	1425.5	1214.6	1050.6	988.1	992.0
45°	10271.5	8666.3	4217.9	1769.2	1374.7	1398.2	1269.3	1070.1	956.8	906.1	906.1
47.5°	11115.1	9123.2	3913.3	1460.7	1167.8	1222.4	1109.2	992.0	894.3	855.3	847.5
50°	11927.4	9588.0	3608.7	1183.3	995.9	1050.6	1038.9	945.2	867.0	820.2	824.0
52.5°	12435.1	9662.2	3222.0	968.6	870.9	933.4	972.5	886.5	800.6	773.3	765.5
55°	11814.1	8705.3	2499.5	796.7	738.1	820.2	894.3	796.7	730.3	683.5	679.6
56°	10978.4	7783.6	2089.4	734.2	699.1	788.9	867.0	761.5	687.4	660.0	640.5
57.5°	9295.1	6369.9	1542.7	652.2	648.3	734.2	824.0	726.4	640.5	617.1	617.1
60°	5795.8	3585.3	933.4	546.8	562.4	652.2	742.0	648.3	570.2	570.2	581.9
62.5°	2640.1	1491.9	566.3	464.8	484.3	562.4	660.0	585.8	542.9	585.8	593.7
65°	898.3	644.4	410.1	371.0	382.7	464.8	566.3	593.7	589.8	617.1	632.7
67.5°	503.8	414.0	343.7	308.5	300.8	343.7	464.8	593.7	570.2	558.5	566.3
70°	425.7	351.5	304.7	273.4	261.7	277.3	359.3	449.1	402.2	390.6	382.7
72.5°	343.7	292.9	265.6	246.0	210.9	179.6	164.0	171.9	191.4	203.1	222.6
75°	242.1	222.6	222.6	199.2	152.3	113.2	89.8	74.2	50.7	35.2	39.1
77.5°	136.7	136.7	140.6	121.1	97.6	74.2	54.7	39.1	19.5	7.8	3.9
80°	93.7	101.6	109.4	97.6	82.0	66.4	46.9	27.3	11.7	0.0	0.0
82.5°	93.7	105.5	113.2	97.6	82.0	62.5	46.9	27.3	11.7	3.9	0.0
85°	19.5	23.4	27.3	31.2	46.9	46.9	35.2	23.4	11.7	3.9	0.0
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	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)