

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: P652439

Luminaire Tested: **GALN-SA6B-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652439  
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-SA6B-840-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 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: 16563.5 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: B3 - U0 - G1

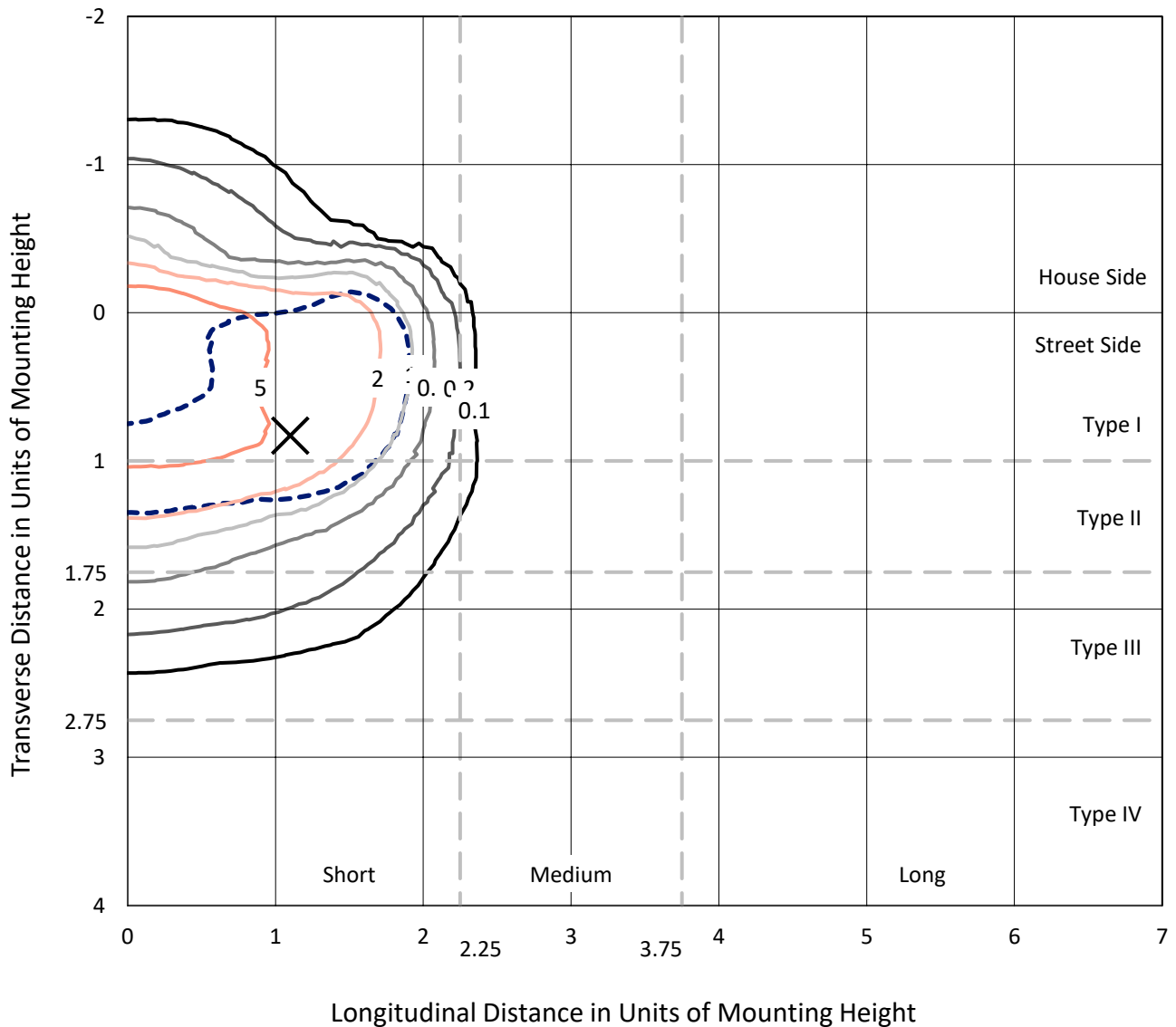
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

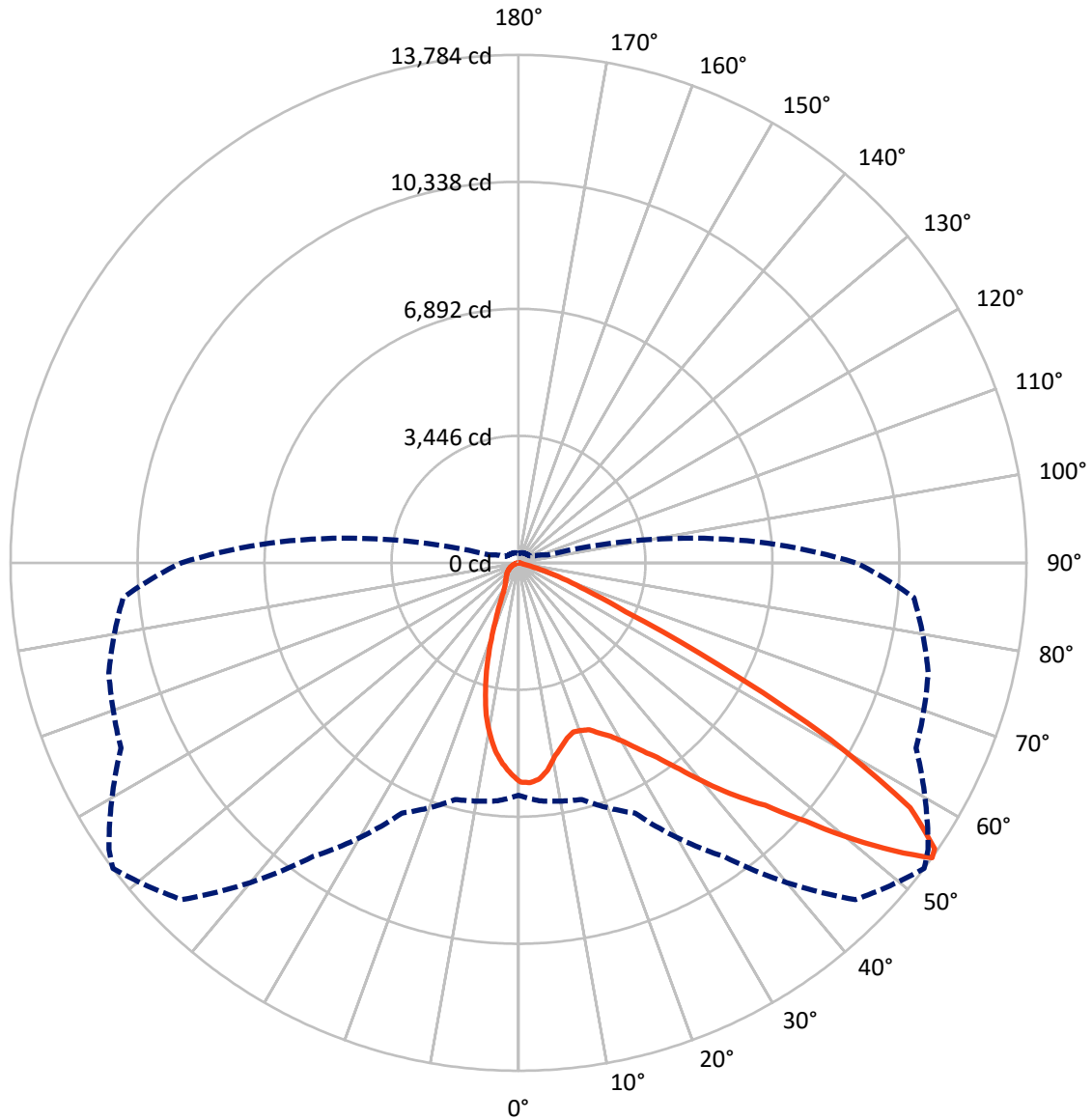
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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
<b>House Side</b>	Lumens	2740.5	0.0	2740.5
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	13823.0	0.0	13823.0
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	16563.5	0.0	16563.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	510.4	3.1
10°-20°	1170.3	7.1
20°-30°	1663.2	10.0
30°-40°	2566.8	15.5
40°-50°	4024.5	24.3
50°-60°	4675.0	28.2
60°-70°	1766.5	10.7
70°-80°	168.0	1.0
80°-90°	18.9	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°	16563.5	100.0
0°-180°	16563.5	100.0

**Coefficient of Utilization**



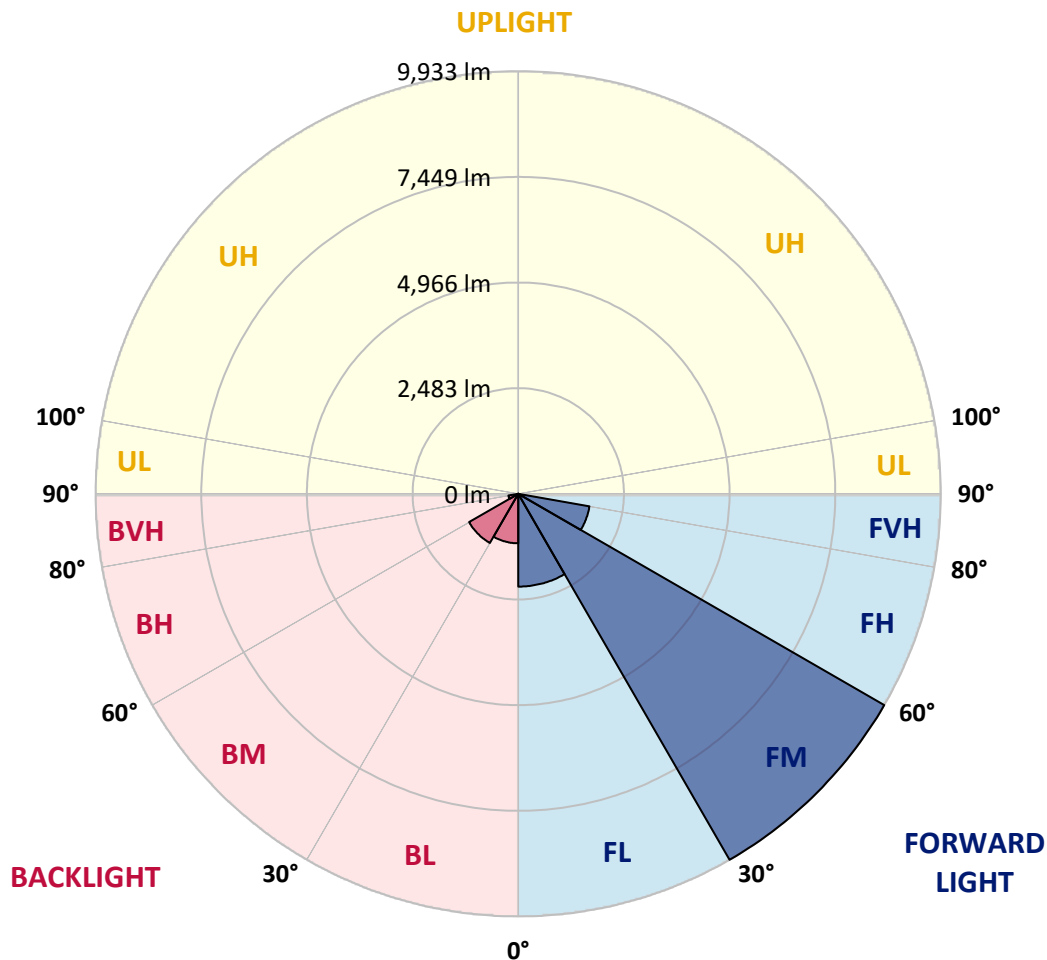
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2181.0	13.2			
FM (30°-60°)	9932.6	60.0			
FH (60°-80°)	1699.7	10.3			G1/1800
FVH (80°-90°)	9.8	0.1			G0/10
BL (0°-30°)	1162.9	7.0	B3/2500		
BM (30°-60°)	1333.6	8.1	B2/2500		
BH (60°-80°)	234.8	1.4	B1/500		G1/500
BVH (80°-90°)	9.1	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°	5949.3	5949.3	5949.3	5949.3	5949.3	5949.3	5949.3	5949.3	5949.3	5949.3	5949.3
2.5°	5918.5	5866.0	5918.5	5924.7	5961.7	5995.6	5974.0	6023.4	5995.6	5964.8	5955.5
5°	5440.2	5511.2	5514.3	5625.4	5600.6	5804.3	5893.8	5869.1	6020.3	6011.0	5989.4
7.5°	5011.3	4983.5	5020.5	5150.1	5313.7	5548.2	5677.8	5674.7	5890.7	6045.0	6029.5
10°	4613.2	4610.1	4687.2	4789.1	4927.9	5174.8	5353.8	5443.3	5779.6	6014.2	6048.1
12.5°	4344.8	4332.4	4415.7	4499.0	4718.1	4909.4	5137.8	5181.0	5566.7	5906.1	5961.7
15°	4168.8	4196.6	4202.8	4363.3	4502.1	4755.2	4934.1	5023.6	5467.9	5819.7	6032.7
17.5°	4138.0	4175.1	4178.1	4310.8	4458.9	4671.8	4829.2	4949.5	5384.7	5862.9	6035.7
20°	4199.7	4178.1	4196.6	4279.9	4425.0	4628.6	4856.9	4897.1	5356.8	5884.6	6069.7
22.5°	4375.6	4369.4	4323.2	4391.0	4492.9	4705.7	4921.8	4983.5	5437.1	5995.6	6097.4
25°	4570.0	4604.0	4560.7	4551.5	4622.5	4832.3	5119.3	5199.5	5705.5	6196.2	6183.9
27.5°	4934.1	4900.2	4900.2	4856.9	4838.4	4940.3	5332.2	5464.9	6004.9	6455.4	6282.6
30°	5282.8	5319.8	5292.1	5307.5	5184.1	5174.8	5634.6	5798.1	6535.6	6850.4	6492.4
32.5°	5835.2	5785.7	5832.1	5792.0	5628.4	5461.8	6045.0	6214.7	7177.4	7304.0	6807.1
35°	6295.0	6273.4	6470.8	6464.7	6199.3	6035.7	6480.1	6733.1	7624.9	7847.0	7177.4
37.5°	6949.1	6909.0	7134.3	7242.3	7004.7	6760.9	7103.4	7396.5	8041.5	8282.2	7557.0
40°	7621.8	7723.7	8026.0	8205.0	7952.0	7628.0	7865.6	7955.1	8319.2	8566.0	7816.2
42.5°	8473.5	8621.6	8930.2	9084.5	9062.9	8711.1	8640.1	8637.0	8519.8	8485.8	8007.5
45°	9291.2	9235.7	9710.9	10047.2	10318.7	10216.9	9386.8	9294.3	8837.6	8606.1	8056.9
47.5°	9649.1	9630.6	9954.7	10553.3	11479.0	11605.5	10473.1	10115.1	9374.5	9112.2	8325.4
50°	9186.2	9281.9	9602.9	10266.3	11685.8	12651.6	11806.0	11324.7	10000.9	9729.4	8961.0
52.5°	7674.3	7739.1	8044.6	8886.9	10982.2	13268.7	13083.6	12805.9	11151.9	10701.4	10068.8
54°	6310.4	6483.2	6649.8	7495.3	9729.4	12926.2	13784.1	13571.1	11901.7	11509.8	10766.1
55°	5495.7	5597.5	5717.9	6560.3	8862.3	12346.0	13703.8	13722.3	12404.8	11762.9	11235.3
57.5°	4014.6	4085.5	3962.1	4335.4	6085.1	10025.6	12534.3	13034.2	13083.6	12142.4	11522.2
60°	3067.2	3098.1	2959.2	3017.8	3783.2	6881.2	9695.5	10297.1	11803.0	10611.9	9760.2
62.5°	2379.1	2385.2	2382.2	2484.1	2607.4	4048.5	6063.5	6597.3	8137.1	7535.4	6628.2
65°	1752.7	1725.0	1774.3	2082.9	2224.9	2545.7	3193.8	3582.6	4421.9	3733.8	2669.2
67.5°	1135.5	1144.9	1194.2	1549.0	1907.0	1953.3	1965.6	1934.8	1937.8	1067.6	669.6
70°	682.0	697.4	682.0	876.3	1363.9	1400.9	1280.6	1249.7	975.1	253.1	249.9
72.5°	404.3	382.7	342.5	376.4	567.8	678.9	611.0	607.9	382.7	148.1	148.1
75°	169.7	154.3	126.5	114.2	151.2	145.0	145.0	129.6	101.8	98.7	92.6
77.5°	34.0	34.0	24.7	27.8	37.0	43.2	52.5	52.5	61.7	61.7	58.6
80°	0.0	3.1	9.3	18.5	27.8	40.1	46.3	46.3	52.5	52.5	43.2
82.5°	0.0	3.1	9.3	18.5	24.7	37.0	46.3	46.3	52.5	55.5	46.3
85°	0.0	3.1	9.3	15.4	24.7	30.9	30.9	27.8	21.6	18.5	12.4
87.5°	0.0	0.0	3.1	6.1	3.1	6.1	6.1	6.1	6.1	6.1	6.1
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°	5949.3	5949.3	5949.3	5949.3	5949.3	5949.3	5949.3	5949.3	5949.3	5949.3	5949.3
2.5°	5977.1	5974.0	5900.0	5779.6	5751.9	5650.0	5637.6	5575.9	5609.9	5495.7	5483.4
5°	5927.7	5890.7	5801.2	5724.1	5498.8	5338.3	5211.8	5057.5	4968.0	4983.5	4924.9
7.5°	5998.7	5903.1	5745.6	5477.2	5202.6	4921.8	4770.6	4455.8	4341.7	4171.9	4147.2
10°	5924.7	5853.7	5609.9	5165.5	4786.0	4381.8	4026.9	3678.2	3412.9	3298.7	3274.0
12.5°	5918.5	5795.1	5387.7	4894.0	4344.8	3764.7	3249.3	2814.2	2551.9	2403.8	2369.9
15°	5822.8	5674.7	5137.8	4474.4	3715.3	2993.2	2431.6	2011.9	1811.3	1725.0	1749.6
17.5°	5832.1	5609.9	4887.8	4030.0	3095.0	2197.0	1660.1	1444.2	1391.7	1413.3	1413.3
20°	5822.8	5464.9	4585.4	3517.7	2369.9	1524.4	1218.9	1141.7	1175.6	1243.6	1228.1
22.5°	5773.5	5396.9	4307.7	2977.7	1743.5	1129.4	978.2	981.3	1033.8	1117.0	1135.5
25°	5810.5	5245.7	3955.9	2431.6	1271.3	901.0	848.6	870.2	925.7	987.4	999.8
27.5°	5782.7	5137.8	3588.7	1888.5	928.8	774.6	771.4	796.1	820.8	867.1	867.1
30°	5813.6	5039.0	3227.7	1404.0	765.2	709.7	697.4	715.9	740.6	749.8	746.7
32.5°	5927.7	4965.0	2811.1	1049.1	675.7	648.0	648.0	648.0	645.0	657.2	660.4
35°	6177.6	4977.3	2443.9	811.6	617.1	595.5	586.3	574.0	567.8	574.0	577.0
37.5°	6449.2	4971.2	2064.4	691.2	574.0	555.4	533.9	515.3	512.3	518.4	509.1
40°	6569.6	5029.8	1712.6	620.2	533.9	512.3	478.3	462.9	465.9	472.1	465.9
42.5°	6733.1	5048.3	1484.3	564.7	496.8	462.9	441.3	422.8	419.7	428.9	425.8
45°	6730.0	4943.4	1243.6	533.9	462.9	425.8	398.0	382.7	382.7	388.8	391.9
47.5°	6927.5	4927.9	1067.6	506.0	438.2	401.2	367.2	354.9	351.8	351.8	345.6
50°	7387.3	5144.0	931.9	475.2	407.3	373.4	345.6	330.2	317.8	311.7	308.6
52.5°	8285.3	5816.6	827.0	438.2	373.4	345.6	320.9	308.6	293.2	277.7	274.7
54°	9155.5	6510.9	820.8	407.3	345.6	327.1	305.5	299.3	280.8	259.2	253.1
55°	9547.3	6915.2	842.4	382.7	327.1	314.8	296.2	290.1	271.6	246.8	243.8
57.5°	9871.3	7072.6	830.1	317.8	296.2	293.2	277.7	268.4	246.8	212.9	206.7
60°	7945.8	5347.6	595.5	280.8	271.6	265.3	253.1	246.8	219.1	182.1	179.0
62.5°	5020.5	3076.5	379.5	246.8	237.6	228.3	212.9	206.7	182.1	145.0	135.7
65°	2138.4	1274.5	256.1	219.1	203.7	188.2	175.9	166.6	145.0	108.0	105.0
67.5°	555.4	453.6	212.9	191.3	169.7	148.1	138.8	123.5	98.7	74.1	71.0
70°	249.9	228.3	179.0	160.5	135.7	114.2	101.8	86.4	64.8	49.4	46.3
72.5°	148.1	145.0	135.7	120.3	101.8	86.4	74.1	58.6	43.2	27.8	27.8
75°	92.6	89.5	92.6	83.3	71.0	64.8	55.5	40.1	24.7	12.4	12.4
77.5°	55.5	55.5	55.5	52.5	49.4	49.4	40.1	24.7	12.4	3.1	3.1
80°	43.2	43.2	46.3	43.2	43.2	43.2	34.0	18.5	6.1	0.0	0.0
82.5°	43.2	46.3	52.5	49.4	43.2	37.0	30.9	18.5	6.1	0.0	0.0
85°	12.4	9.3	15.4	21.6	30.9	27.8	21.6	15.4	6.1	0.0	0.0
87.5°	6.1	6.1	6.1	6.1	3.1	3.1	3.1	3.1	3.1	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)