

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: P652494

Luminaire Tested: **GALN-SA7B-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652494
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-SA7B-840-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 19454.8 lumens
Efficiency: N/A
Efficacy: 68.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

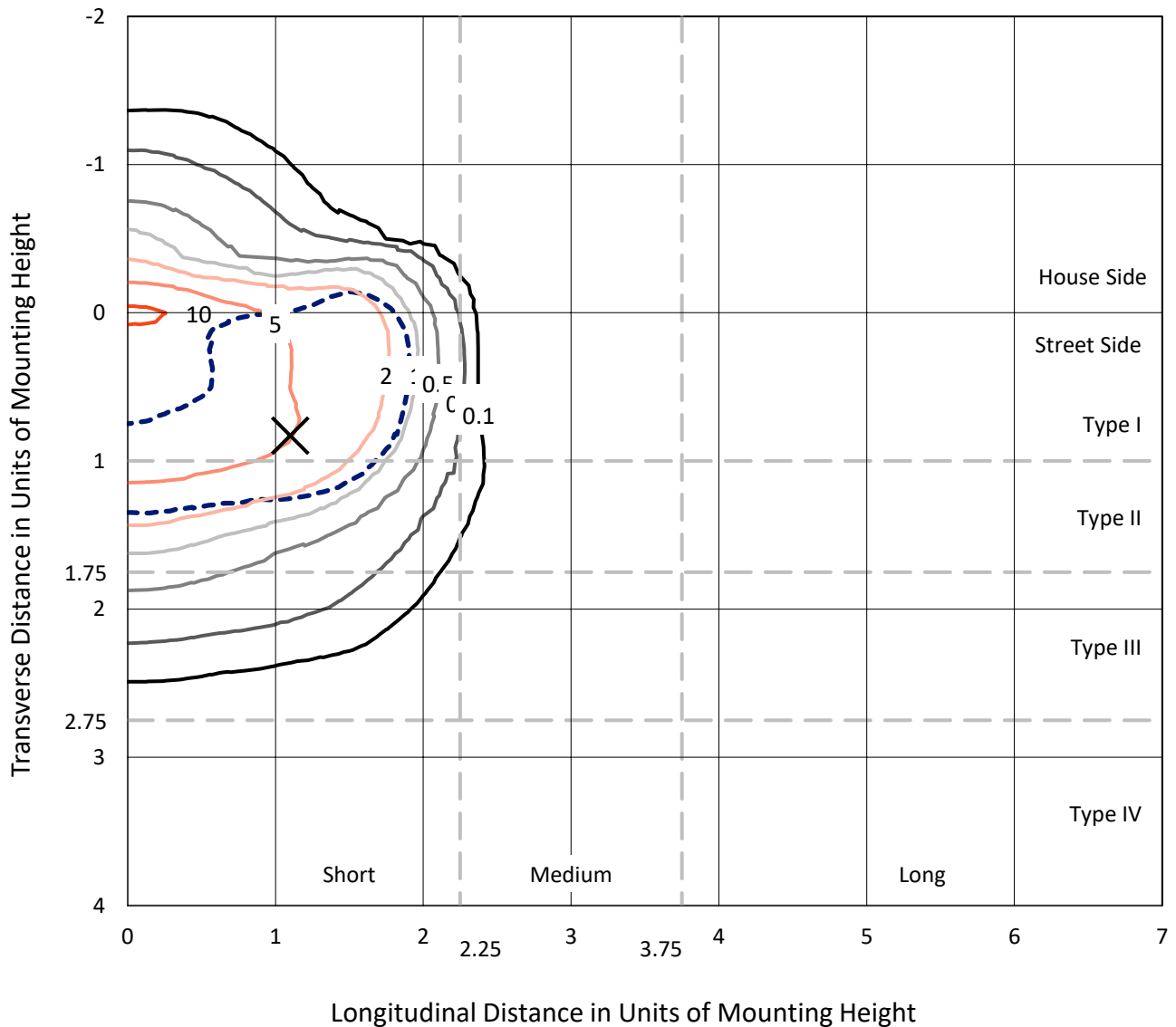
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

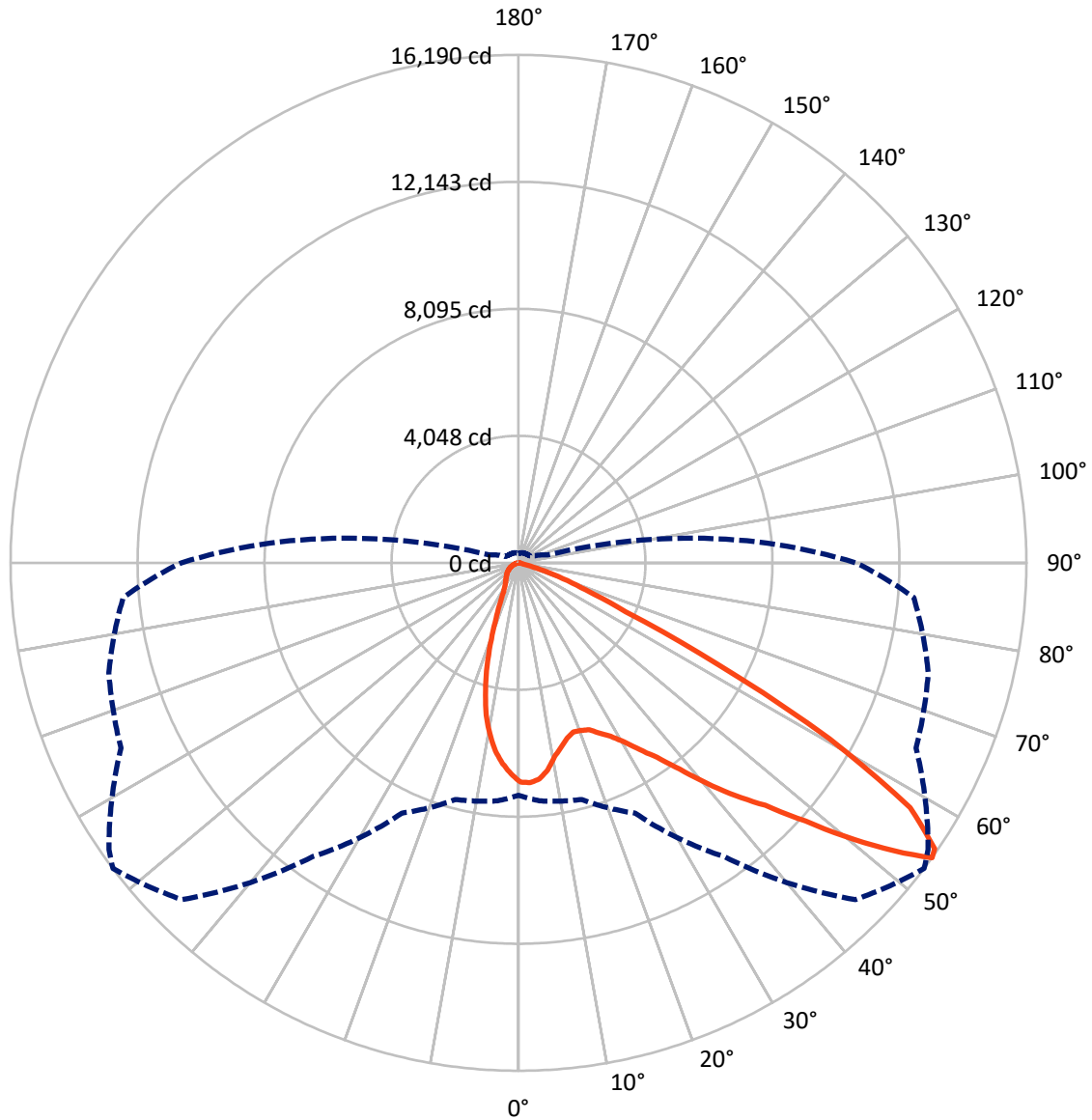
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA7B-840-U-SL2-GRSBK

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	3218.8	0.0	3218.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	16236.0	0.0	16236.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	19454.8	0.0	19454.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	599.5	3.1
10°-20°	1374.6	7.1
20°-30°	1953.5	10.0
30°-40°	3014.8	15.5
40°-50°	4727.0	24.3
50°-60°	5491.0	28.2
60°-70°	2074.8	10.7
70°-80°	197.3	1.0
80°-90°	22.2	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°	19454.8	100.0
0°-180°	19454.8	100.0

Coefficient of Utilization



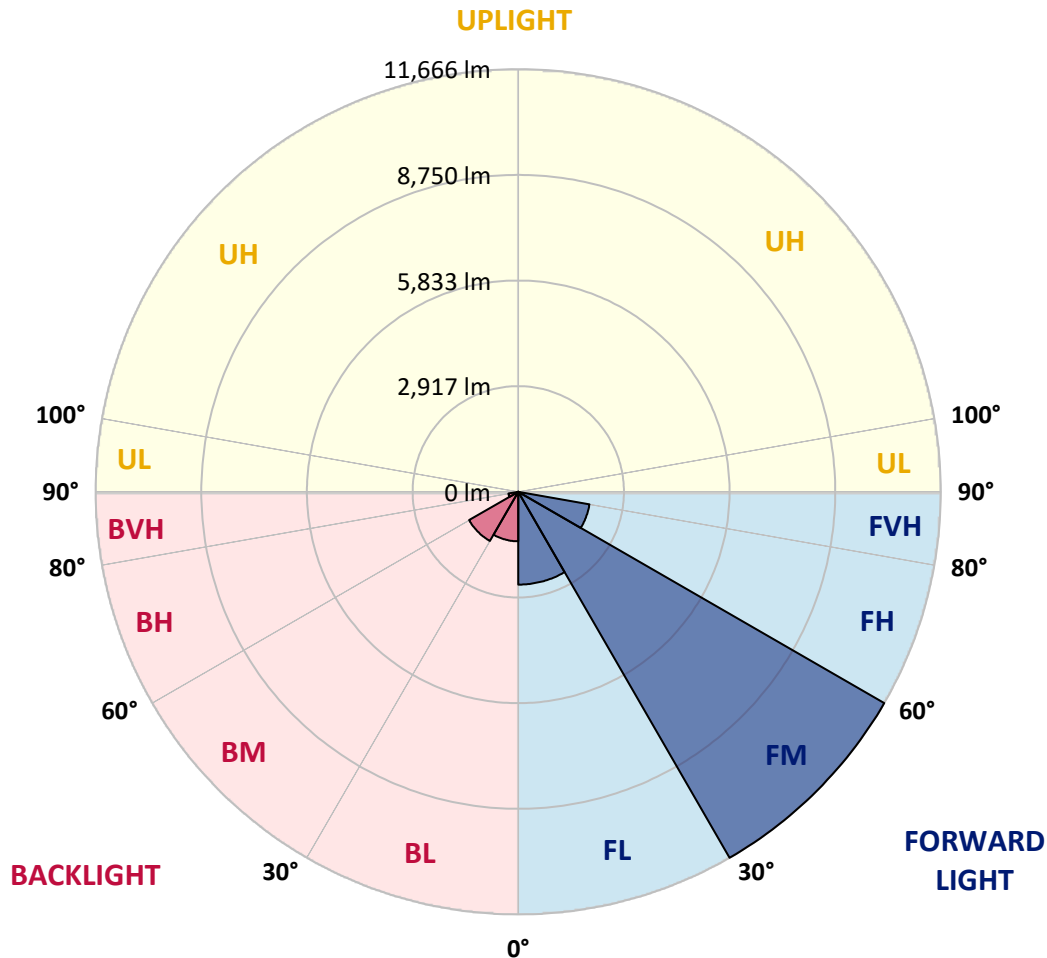
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2561.7	13.2			
FM (30°-60°)	11666.5	60.0			
FH (60°-80°)	1996.4	10.3			G2/5000
FVH (80°-90°)	11.5	0.1			G1/100
BL (0°-30°)	1365.9	7.0	B3/2500		
BM (30°-60°)	1566.4	8.1	B2/2500		
BH (60°-80°)	275.8	1.4	B1/500		G1/500
BVH (80°-90°)	10.7	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-G2

Type II Short





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CATALOG NUMBER: GALN-SA7B-840-U-SL2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	6987.9	6987.9	6987.9	6987.9	6987.9	6987.9	6987.9	6987.9	6987.9	6987.9	6987.9
2.5°	6951.6	6890.0	6951.6	6958.9	7002.3	7042.2	7016.9	7074.8	7042.2	7006.0	6995.1
5°	6389.8	6473.2	6476.8	6607.3	6578.3	6817.5	6922.6	6893.6	7071.2	7060.4	7035.0
7.5°	5886.1	5853.4	5896.9	6049.1	6241.2	6516.7	6668.9	6665.3	6919.0	7100.2	7082.1
10°	5418.5	5414.9	5505.4	5625.1	5788.2	6078.2	6288.3	6393.5	6788.6	7064.0	7103.8
12.5°	5103.2	5088.6	5186.5	5284.4	5541.7	5766.4	6034.6	6085.4	6538.4	6937.1	7002.3
15°	4896.6	4929.2	4936.4	5124.9	5288.0	5585.2	5795.4	5900.5	6422.5	6835.6	7085.7
17.5°	4860.3	4903.8	4907.5	5063.3	5237.2	5487.4	5672.2	5813.6	6324.6	6886.4	7089.4
20°	4932.8	4907.5	4929.2	5027.1	5197.4	5436.6	5704.8	5751.9	6291.9	6911.8	7129.2
22.5°	5139.4	5132.1	5077.8	5157.5	5277.1	5527.2	5780.9	5853.4	6386.2	7042.2	7161.8
25°	5367.8	5407.6	5356.8	5346.0	5429.3	5675.8	6012.9	6107.1	6701.5	7277.8	7263.3
27.5°	5795.4	5755.6	5755.6	5704.8	5683.1	5802.6	6263.0	6418.8	7053.1	7582.3	7379.3
30°	6205.0	6248.5	6215.8	6234.0	6089.0	6078.2	6618.2	6810.2	7676.5	8046.2	7625.8
32.5°	6853.7	6795.8	6850.1	6803.0	6610.9	6415.2	7100.2	7299.5	8430.4	8579.0	7995.5
35°	7393.8	7368.4	7600.4	7593.1	7281.5	7089.4	7611.2	7908.4	8955.9	9216.9	8430.4
37.5°	8162.2	8115.1	8379.6	8506.5	8227.4	7941.1	8343.4	8687.7	9445.2	9727.9	8876.2
40°	8952.3	9071.9	9427.1	9637.3	9340.1	8959.5	9238.6	9343.7	9771.4	10061.4	9180.6
42.5°	9952.6	10126.6	10489.0	10670.3	10644.9	10231.7	10148.3	10144.7	10007.0	9967.1	9405.3
45°	10913.1	10847.8	11406.0	11801.1	12120.0	12000.4	11025.4	10916.7	10380.3	10108.5	9463.4
47.5°	11333.5	11311.8	11692.3	12395.5	13482.8	13631.4	12301.2	11880.8	11011.0	10702.9	9778.6
50°	10789.9	10902.2	11279.2	12058.4	13725.6	14860.0	13867.0	13301.6	11746.7	11427.8	10525.3
52.5°	9013.9	9090.0	9448.8	10438.3	12899.3	15584.9	15367.5	15041.3	13098.6	12569.4	11826.5
54°	7411.9	7614.9	7810.6	8803.7	11427.8	15182.7	16190.3	15940.1	13979.4	13519.1	12645.5
55°	6455.1	6574.7	6716.1	7705.5	10409.3	14501.3	16096.0	16117.8	14570.1	13816.2	13196.5
57.5°	4715.3	4798.7	4653.8	5092.3	7147.3	11775.7	14722.4	15309.5	15367.5	14262.0	13533.5
60°	3602.7	3638.9	3475.8	3544.6	4443.5	8082.4	11387.9	12094.7	13863.4	12464.3	11464.0
62.5°	2794.4	2801.7	2798.0	2917.7	3062.6	4755.2	7121.9	7749.0	9557.5	8850.8	7785.2
65°	2058.7	2026.1	2084.0	2446.5	2613.2	2990.2	3751.3	4207.9	5193.8	4385.6	3135.1
67.5°	1333.7	1344.7	1402.6	1819.4	2239.9	2294.2	2308.7	2272.5	2276.2	1254.0	786.5
70°	801.0	819.1	801.0	1029.3	1602.0	1645.5	1504.1	1467.9	1145.3	297.2	293.6
72.5°	474.8	449.4	402.3	442.2	666.9	797.4	717.6	714.0	449.4	174.0	174.0
75°	199.3	181.2	148.6	134.1	177.6	170.4	170.4	152.2	119.6	116.0	108.7
77.5°	39.9	39.9	29.0	32.6	43.5	50.7	61.6	61.6	72.5	72.5	68.9
80°	0.0	3.6	10.8	21.8	32.6	47.1	54.3	54.3	61.6	61.6	50.7
82.5°	0.0	3.6	10.8	21.8	29.0	43.5	54.3	54.3	61.6	65.3	54.3
85°	0.0	3.6	10.8	18.1	29.0	36.2	36.2	32.6	25.4	21.8	14.5
87.5°	0.0	0.0	3.6	7.2	3.6	7.2	7.2	7.2	7.2	7.2	7.2
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°	6987.9	6987.9	6987.9	6987.9	6987.9	6987.9	6987.9	6987.9	6987.9	6987.9	6987.9
2.5°	7020.5	7016.9	6929.8	6788.6	6755.9	6636.2	6621.8	6549.3	6589.2	6455.1	6440.5
5°	6962.5	6919.0	6813.9	6723.3	6458.7	6270.2	6121.6	5940.4	5835.3	5853.4	5784.6
7.5°	7045.8	6933.5	6748.6	6433.3	6110.8	5780.9	5603.3	5233.6	5099.6	4900.2	4871.2
10°	6958.9	6875.5	6589.2	6067.2	5621.4	5146.7	4729.9	4320.3	4008.6	3874.5	3845.5
12.5°	6951.6	6806.6	6328.2	5748.3	5103.2	4421.8	3816.5	3305.5	2997.4	2823.4	2783.5
15°	6839.3	6665.3	6034.6	5255.4	4363.8	3515.6	2856.0	2363.1	2127.6	2026.1	2055.1
17.5°	6850.1	6589.2	5741.1	4733.5	3635.3	2580.6	1949.9	1696.2	1634.6	1660.0	1660.0
20°	6839.3	6418.8	5385.8	4131.8	2783.5	1790.5	1431.6	1341.1	1380.9	1460.6	1442.5
22.5°	6781.2	6339.1	5059.7	3497.6	2047.8	1326.5	1149.0	1152.6	1214.2	1312.0	1333.7
25°	6824.7	6161.5	4646.5	2856.0	1493.3	1058.3	996.8	1022.1	1087.3	1159.8	1174.3
27.5°	6792.2	6034.6	4215.2	2218.1	1090.9	909.7	906.1	935.1	964.1	1018.5	1018.5
30°	6828.4	5918.6	3791.1	1649.1	898.9	833.6	819.1	840.8	869.8	880.7	877.1
32.5°	6962.5	5831.7	3301.9	1232.3	793.7	761.1	761.1	761.1	757.5	772.0	775.7
35°	7256.1	5846.1	2870.5	953.2	724.9	699.5	688.6	674.1	666.9	674.1	677.8
37.5°	7575.0	5838.9	2424.7	811.9	674.1	652.4	627.0	605.3	601.7	608.9	598.0
40°	7716.3	5907.8	2011.5	728.5	627.0	601.7	561.8	543.6	547.3	554.6	547.3
42.5°	7908.4	5929.6	1743.3	663.3	583.6	543.6	518.3	496.5	492.9	503.8	500.1
45°	7904.8	5806.3	1460.6	627.0	543.6	500.1	467.5	449.4	449.4	456.7	460.3
47.5°	8136.8	5788.2	1254.0	594.4	514.7	471.2	431.3	416.8	413.2	413.2	406.0
50°	8676.8	6041.9	1094.6	558.2	478.4	438.6	406.0	387.8	373.3	366.1	362.5
52.5°	9731.5	6832.0	971.4	514.7	438.6	406.0	376.9	362.5	344.3	326.2	322.6
54°	10753.6	7647.5	964.1	478.4	406.0	384.2	358.9	351.5	329.8	304.4	297.2
55°	11213.9	8122.3	989.4	449.4	384.2	369.7	347.9	340.7	318.9	290.0	286.4
57.5°	11594.4	8307.1	975.0	373.3	347.9	344.3	326.2	315.3	290.0	250.1	242.8
60°	9332.8	6281.1	699.5	329.8	318.9	311.7	297.2	290.0	257.3	213.9	210.2
62.5°	5896.9	3613.5	445.8	290.0	279.0	268.2	250.1	242.8	213.9	170.4	159.5
65°	2511.7	1496.9	300.8	257.3	239.2	221.1	206.5	195.7	170.4	126.8	123.2
67.5°	652.4	532.8	250.1	224.7	199.3	174.0	163.1	145.0	116.0	87.0	83.3
70°	293.6	268.2	210.2	188.5	159.5	134.1	119.6	101.5	76.1	58.0	54.3
72.5°	174.0	170.4	159.5	141.4	119.6	101.5	87.0	68.9	50.7	32.6	32.6
75°	108.7	105.1	108.7	97.9	83.3	76.1	65.3	47.1	29.0	14.5	14.5
77.5°	65.3	65.3	65.3	61.6	58.0	58.0	47.1	29.0	14.5	3.6	3.6
80°	50.7	50.7	54.3	50.7	50.7	50.7	39.9	21.8	7.2	0.0	0.0
82.5°	50.7	54.3	61.6	58.0	50.7	43.5	36.2	21.8	7.2	0.0	0.0
85°	14.5	10.8	18.1	25.4	36.2	32.6	25.4	18.1	7.2	0.0	0.0
87.5°	7.2	7.2	7.2	7.2	3.6	3.6	3.6	3.6	3.6	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)