

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: P651066

Luminaire Tested: **GALN-SA8C-840-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651066
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-840-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39075.4 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

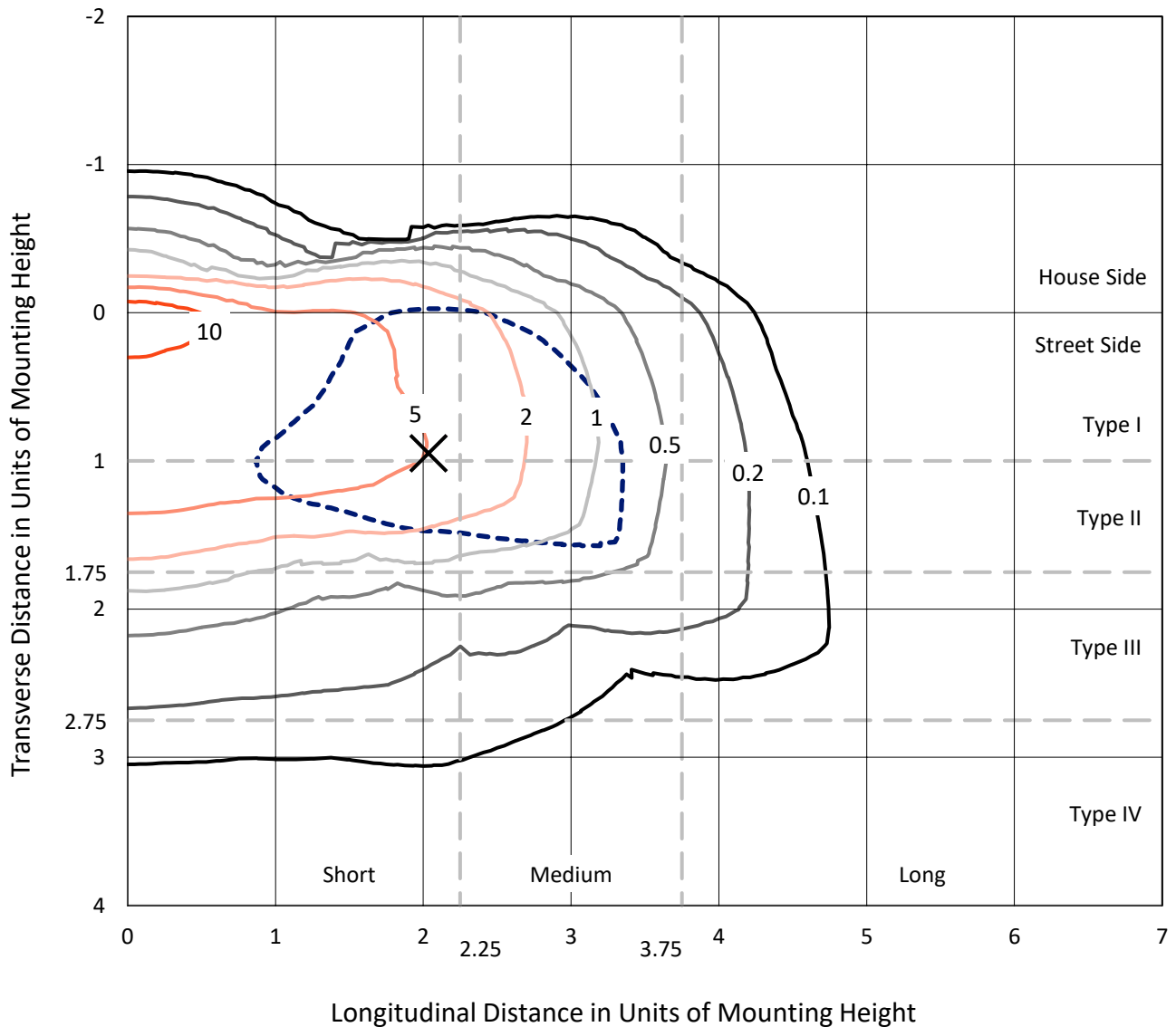
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

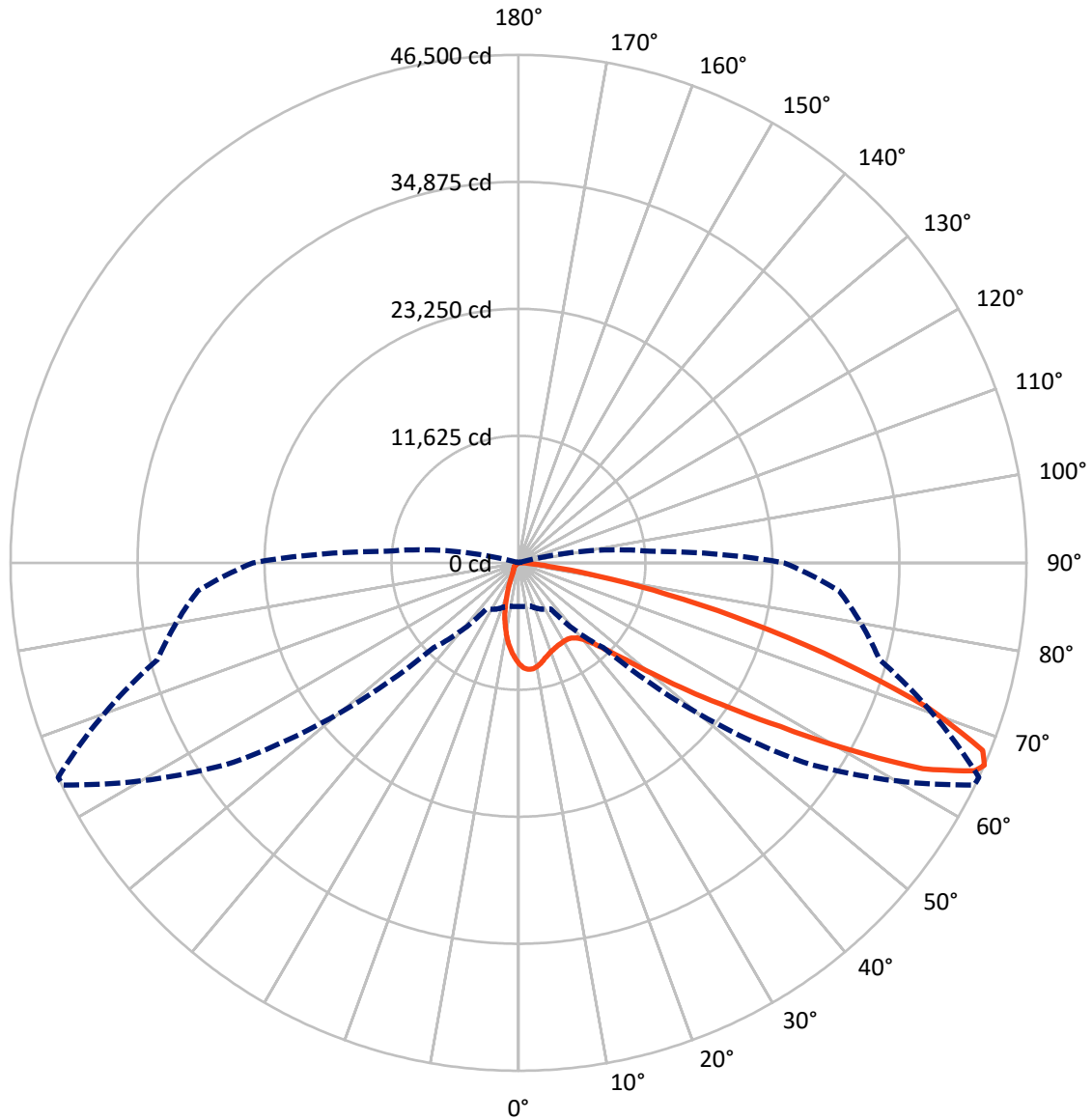
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4040.9	0.0	4040.9
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	35034.4	0.0	35034.4
	% Fixture	89.7	0.0	89.7
Total	Lumens	39075.4	0.0	39075.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	757.8	1.9
10°-20°	1651.2	4.2
20°-30°	2365.4	6.1
30°-40°	3454.8	8.8
40°-50°	5793.1	14.8
50°-60°	9667.8	24.7
60°-70°	10262.0	26.3
70°-80°	4647.7	11.9
80°-90°	475.5	1.2
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°	39075.4	100.0
0°-180°	39075.4	100.0

Coefficient of Utilization



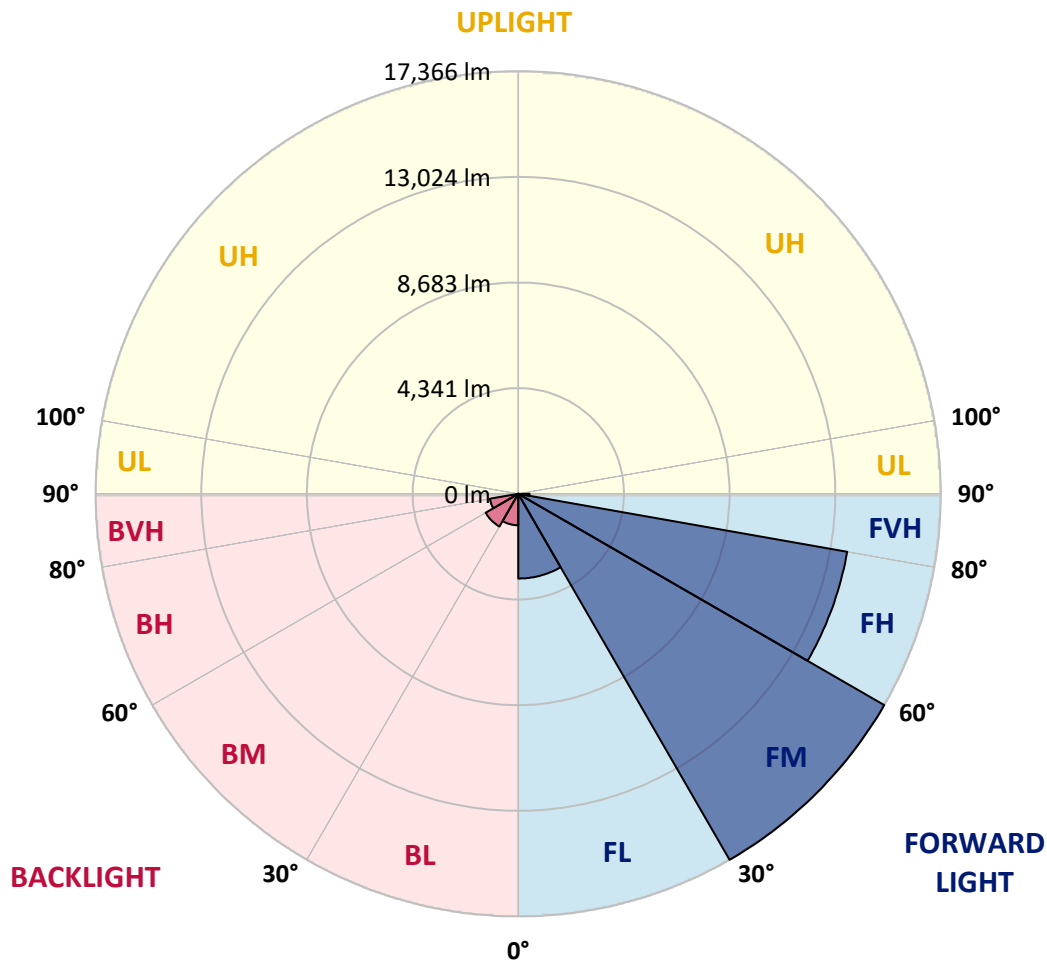
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3481.8	8.9			
FM (30°-60°)	17366.0	44.4			
FH (60°-80°)	13726.3	35.1			G5
FVH (80°-90°)	460.4	1.2			G3/500
BL (0°-30°)	1292.7	3.3	B3/2500		
BM (30°-60°)	1549.7	4.0	B2/2500		
BH (60°-80°)	1183.4	3.0	B3/2500		G3/2500
BVH (80°-90°)	15.2	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	9266.2	9266.2	9266.2	9266.2	9266.2	9266.2	9266.2	9266.2	9266.2	9266.2	9266.2
2.5°	9765.0	9775.6	9788.7	9807.2	9820.4	9780.8	9725.4	9662.1	9648.9	9514.3	9350.7
5°	9242.4	9258.3	9374.5	9437.8	9580.3	9709.6	9791.4	9801.9	9796.7	9670.0	9408.8
7.5°	8498.2	8543.0	8656.6	8767.4	9033.9	9279.4	9569.7	9772.9	9786.1	9751.8	9427.2
10°	7893.8	7922.9	7980.9	8200.0	8421.7	8796.4	9202.9	9585.5	9617.3	9754.5	9411.4
12.5°	7421.4	7463.6	7534.9	7703.8	7970.4	8324.0	8785.8	9300.5	9366.5	9704.3	9366.5
15°	7091.5	7112.6	7183.9	7350.2	7608.8	7936.1	8403.2	9002.3	9060.3	9638.4	9358.6
17.5°	6935.8	6959.5	7009.7	7141.7	7355.5	7658.9	8115.6	8762.1	8836.1	9596.1	9387.6
20°	6978.0	6999.1	7001.7	7070.4	7215.5	7471.5	7904.4	8537.8	8632.8	9569.7	9435.1
22.5°	7218.2	7220.8	7189.2	7157.5	7207.6	7392.4	7775.0	8395.3	8492.9	9564.4	9490.5
25°	7577.2	7585.1	7532.2	7421.4	7321.2	7416.1	7746.0	8302.9	8390.0	9551.2	9524.8
27.5°	8073.3	8070.7	8054.8	7870.1	7585.1	7521.7	7769.8	8252.7	8326.7	9514.3	9538.0
30°	8767.4	8746.3	8712.0	8503.5	8068.0	7777.7	7870.1	8221.1	8289.7	9461.5	9503.7
32.5°	9451.0	9530.1	9524.8	9326.9	8783.2	8234.3	8078.6	8263.3	8313.5	9427.2	9453.6
35°	10248.0	10245.3	10448.6	10374.7	9738.6	8817.5	8434.9	8403.2	8442.8	9451.0	9429.9
37.5°	10987.0	11055.6	11372.3	11448.9	10868.2	9641.0	8939.0	8704.1	8717.3	9612.0	9487.9
40°	11908.1	12040.0	12512.4	12768.4	12256.4	10862.9	9683.2	9255.6	9258.3	10007.8	9707.0
42.5°	13095.7	13304.2	13745.0	14172.4	13898.0	12309.2	10799.6	10129.3	10124.0	10704.6	10208.4
45°	14539.3	14684.4	15185.9	15864.2	15690.0	14328.2	12425.4	11483.1	11414.6	11847.3	11097.8
47.5°	15785.1	15983.0	16492.3	17265.6	18057.4	16793.2	14367.8	13343.8	13298.9	13665.7	12623.2
50°	16328.7	16502.9	17038.7	18123.4	20042.0	20028.8	17260.3	16059.5	15983.0	16180.9	14982.8
52.5°	15732.3	15895.9	16436.9	17788.2	20976.3	23971.8	21451.4	19466.7	19374.4	19121.0	17801.4
55°	13689.5	13824.1	14623.8	16175.6	20617.4	26600.4	27225.9	23676.3	23317.3	22332.8	20992.1
57.5°	10899.9	10831.2	11327.4	13130.0	18511.3	27481.9	33153.6	28920.3	28279.0	25109.3	23692.1
60°	7553.4	7764.5	7965.1	9152.7	13919.1	25953.8	36840.5	35513.0	34668.5	27840.9	26278.5
62.5°	5552.9	5692.7	5824.7	6373.7	8751.5	20723.0	37492.4	42285.2	41535.6	30741.3	28746.1
65°	4391.6	4402.2	4454.9	4996.0	5766.7	13475.8	34359.6	46104.1	45911.5	33533.6	29746.3
66°	4001.1	4003.7	4085.5	4666.1	5175.4	10973.8	31849.8	46394.4	46500.0	34204.0	29453.4
67.5°	3497.0	3486.4	3605.1	4193.6	4713.6	7912.3	27357.9	45217.3	45842.8	34718.6	28400.4
70°	2710.5	2697.3	2842.4	3518.1	4341.5	5278.4	18184.0	38825.2	39833.4	33665.6	25127.8
72.5°	1805.2	1815.8	2063.8	2776.4	4143.5	4647.6	10939.5	29535.2	30960.4	27801.3	19767.5
75°	1053.0	1071.5	1353.9	2063.8	3597.2	4431.2	6191.5	21060.7	21971.3	19197.5	12314.5
77.5°	551.6	559.5	757.5	1361.8	2758.0	4114.5	4125.0	13454.7	13882.1	9329.5	4874.6
80°	292.9	285.0	406.5	820.8	1897.5	3613.0	3346.5	7123.2	7405.6	2771.2	1232.5
82.5°	110.8	121.4	216.4	538.4	1121.6	2594.3	2882.0	3148.5	3050.9	609.6	517.3
85°	21.1	26.4	92.3	319.3	564.8	1084.7	2124.5	1543.9	1430.5	229.6	298.2
87.5°	2.6	5.3	26.4	76.5	81.8	366.8	628.1	427.6	369.5	84.4	124.0
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°	9266.2	9266.2	9266.2	9266.2	9266.2	9266.2	9266.2	9266.2	9266.2	9266.2	9266.2
2.5°	9271.5	9200.2	8962.7	8727.8	8487.6	8271.2	8123.5	7883.3	7822.6	7735.5	7685.3
5°	9253.0	9086.8	8630.2	8131.4	7666.9	7165.4	6782.7	6413.2	6215.3	6115.0	6078.1
7.5°	9200.2	8936.3	8223.7	7442.5	6698.3	5948.7	5296.9	4800.7	4481.4	4262.3	4114.5
10°	9094.7	8730.4	7751.3	6677.2	5552.9	4563.2	3737.1	3109.0	2623.3	2470.3	2475.6
12.5°	8986.4	8500.8	7223.5	5827.4	4433.8	3185.5	2309.3	1813.1	1580.9	1504.4	1488.5
15°	8886.2	8281.8	6706.2	5004.0	3301.6	2063.8	1488.5	1314.3	1251.0	1237.8	1235.2
17.5°	8833.4	8078.6	6154.6	4061.7	2304.0	1401.4	1192.9	1145.4	1126.9	1113.7	1108.4
20°	8788.5	7901.8	5626.8	3180.2	1575.6	1148.0	1068.9	1024.0	992.3	979.2	971.2
22.5°	8756.8	7719.6	5080.5	2462.4	1206.1	1018.7	947.5	889.4	844.5	828.7	818.1
25°	8709.3	7519.0	4528.9	1799.9	1016.1	905.3	823.4	754.8	696.8	667.8	662.5
27.5°	8640.7	7292.1	3924.4	1332.8	907.9	804.9	704.7	620.2	562.1	530.5	533.1
30°	8529.8	7054.6	3320.1	1058.3	820.8	702.1	593.8	512.0	456.6	432.9	430.2
32.5°	8397.9	6766.9	2765.9	907.9	741.6	609.6	496.2	424.9	382.7	364.2	361.5
35°	8273.8	6476.6	2201.1	815.5	659.8	525.2	417.0	356.3	324.6	308.8	311.4
37.5°	8205.2	6217.9	1715.5	741.6	593.8	451.3	358.9	306.1	277.1	263.9	261.3
40°	8250.1	6006.8	1364.4	675.7	519.9	388.0	308.8	263.9	234.9	216.4	216.4
42.5°	8461.3	5914.4	1100.5	612.3	451.3	335.1	269.2	227.0	195.3	176.9	179.5
45°	9105.3	6012.1	921.1	554.2	388.0	290.3	232.3	187.4	158.4	145.2	142.5
47.5°	10174.1	6378.9	797.0	493.5	332.5	248.1	195.3	155.8	126.7	116.1	113.5
50°	12042.6	7136.4	704.7	432.9	282.4	211.2	161.0	124.0	100.3	89.7	89.7
52.5°	14613.2	8788.5	638.7	364.2	237.5	179.5	132.0	100.3	79.1	71.2	68.6
55°	17300.0	10530.4	604.3	306.1	198.0	147.8	105.5	79.1	60.7	52.8	50.1
57.5°	19883.7	11897.5	564.8	248.1	158.4	113.5	81.8	60.7	42.2	36.9	34.3
60°	22361.9	13003.3	480.3	198.0	124.0	81.8	60.7	42.2	29.0	23.7	23.7
62.5°	24578.8	13647.2	377.4	158.4	95.0	58.0	39.6	31.7	21.1	15.8	15.8
65°	24837.5	12810.6	285.0	121.4	68.6	36.9	23.7	23.7	15.8	10.6	10.6
66°	24317.5	12100.7	250.7	110.8	60.7	31.7	21.1	18.5	13.2	7.9	7.9
67.5°	23156.3	10889.4	216.4	95.0	50.1	23.7	15.8	15.8	10.6	5.3	5.3
70°	20007.7	8894.1	171.6	71.2	36.9	18.5	10.6	10.6	7.9	5.3	5.3
72.5°	15249.3	6640.2	139.9	52.8	26.4	13.2	7.9	7.9	7.9	5.3	5.3
75°	9197.6	3576.1	108.2	39.6	23.7	10.6	5.3	7.9	10.6	7.9	5.3
77.5°	3388.7	1216.7	84.4	31.7	18.5	10.6	5.3	5.3	10.6	7.9	7.9
80°	831.3	316.7	60.7	26.4	18.5	10.6	5.3	5.3	10.6	10.6	10.6
82.5°	385.3	134.6	42.2	23.7	18.5	10.6	5.3	5.3	7.9	10.6	10.6
85°	221.7	63.3	34.3	26.4	18.5	10.6	5.3	5.3	7.9	10.6	10.6
87.5°	89.7	31.7	31.7	26.4	21.1	13.2	5.3	5.3	5.3	7.9	7.9
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)