

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: P648650

Luminaire Tested: **GALN-SA9B-835-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-835-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33412.2 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

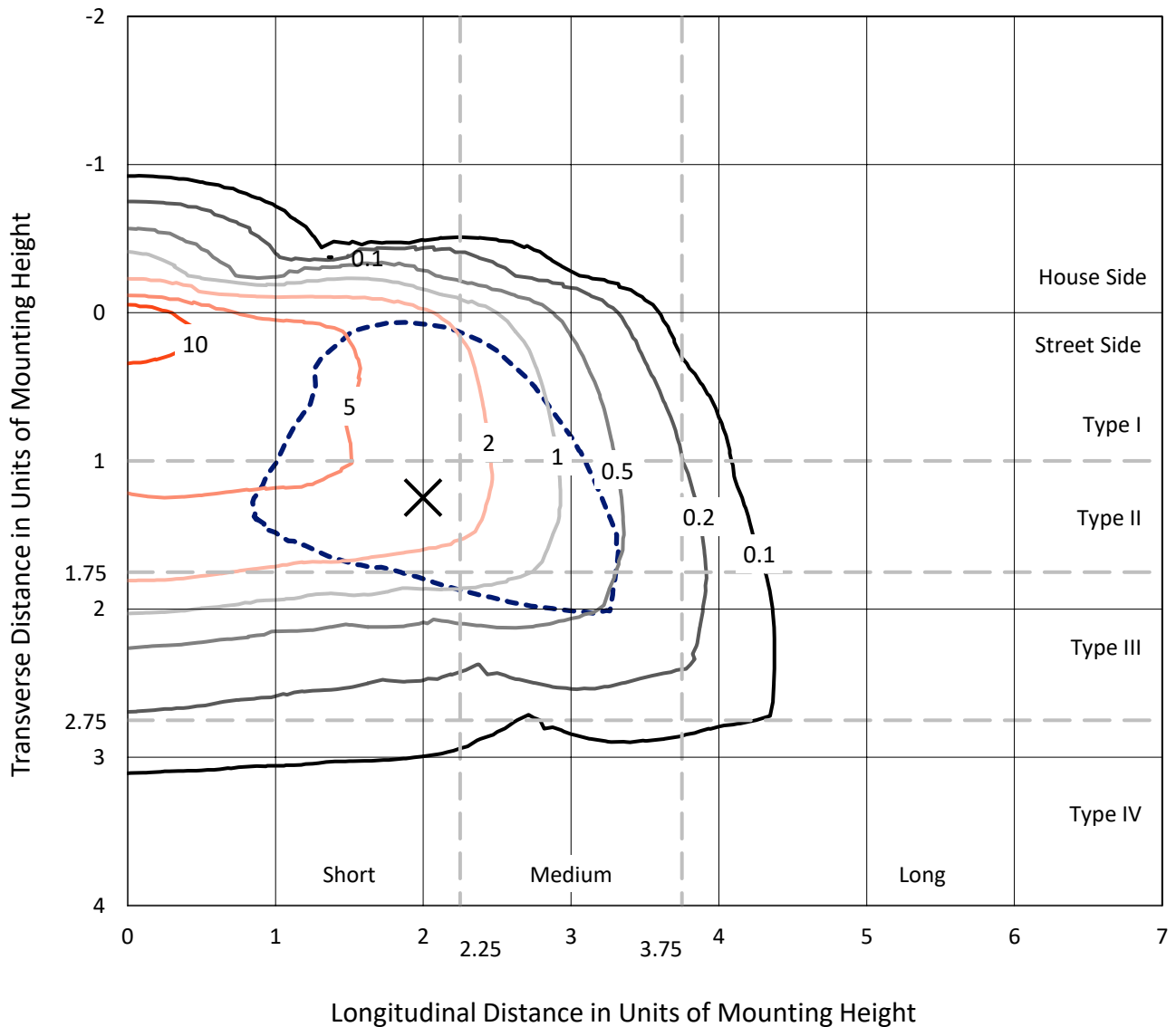
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

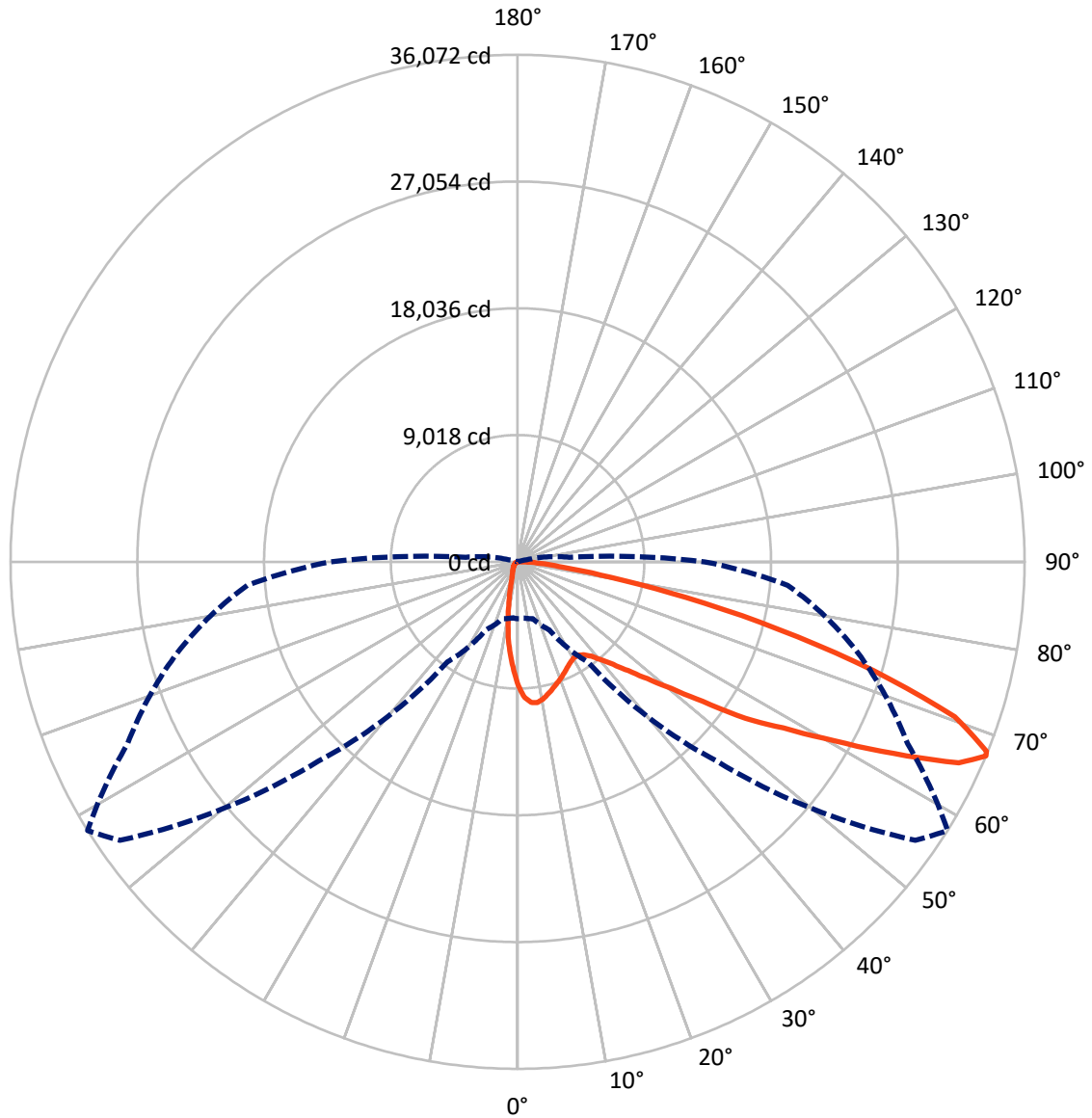
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2411.2	0.0	2411.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	31001.0	0.0	31001.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	33412.2	0.0	33412.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	718.7	2.2
10°-20°	1552.3	4.6
20°-30°	2103.5	6.3
30°-40°	2917.4	8.7
40°-50°	4653.0	13.9
50°-60°	8043.0	24.1
60°-70°	9187.7	27.5
70°-80°	3830.4	11.5
80°-90°	406.1	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°	33412.2	100.0
0°-180°	33412.2	100.0

Coefficient of Utilization

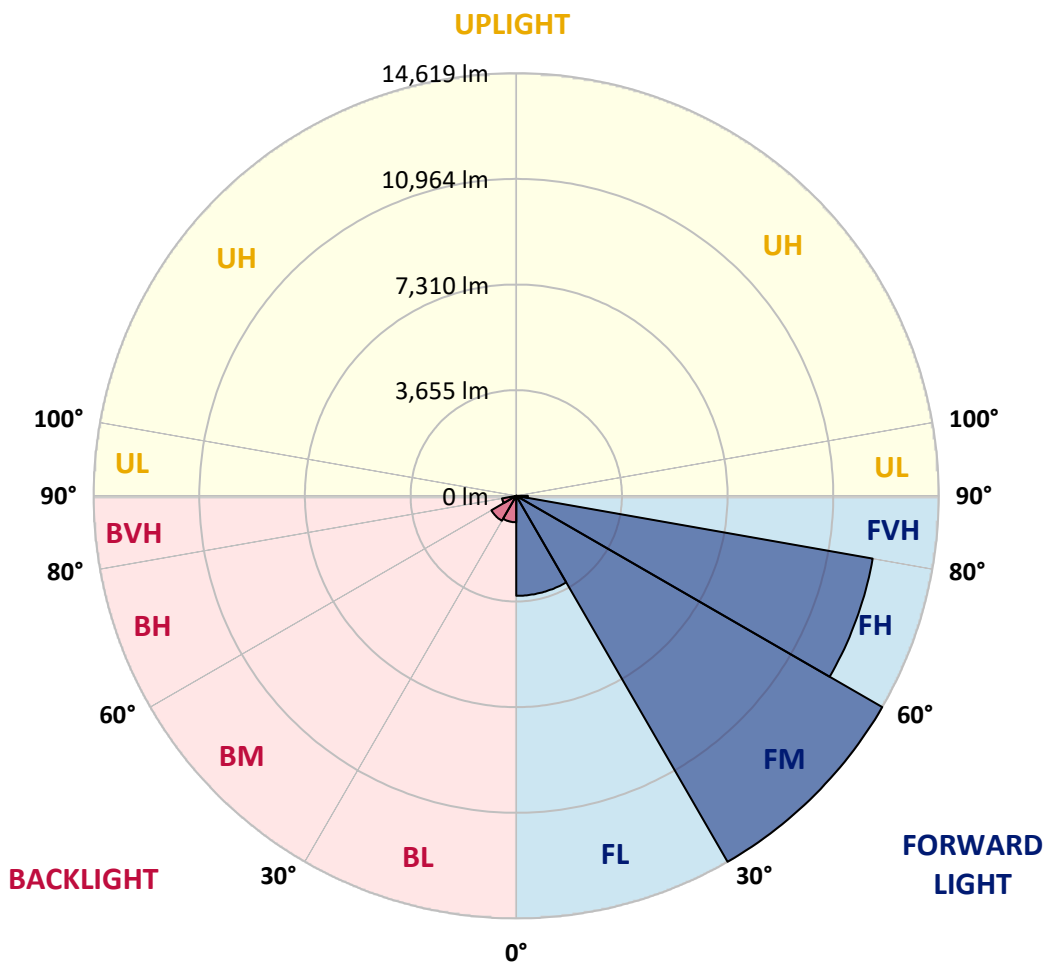


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3459.0	10.4			
FM (30°-60°)	14619.2	43.8			
FH (60°-80°)	12519.6	37.5			G5
FVH (80°-90°)	403.2	1.2			G3/500
BL (0°-30°)	915.6	2.7	B2/1000		
BM (30°-60°)	994.2	3.0	B1/1000		
BH (60°-80°)	498.5	1.5	B1/500		G1/500
BVH (80°-90°)	2.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8857.3	8857.3	8857.3	8857.3	8857.3	8857.3	8857.3	8857.3	8857.3	8857.3	8857.3
2.5°	10279.5	10295.1	10237.1	10190.2	10069.6	9940.1	9768.2	9676.7	9520.4	9250.2	8951.0
5°	10520.6	10540.7	10531.8	10520.6	10473.8	10348.8	10129.9	10049.6	9819.6	9379.7	8839.4
7.5°	9984.8	10058.5	10067.4	10154.5	10237.1	10248.2	10165.6	10105.4	9893.3	9377.5	8640.7
10°	9274.8	9323.9	9395.4	9495.8	9694.6	9859.8	9940.1	9931.2	9808.4	9308.3	8408.5
12.5°	8558.1	8584.9	8694.3	8866.2	9109.6	9390.9	9605.2	9647.7	9649.8	9225.7	8214.2
15°	7941.8	7930.7	8015.5	8214.2	8555.8	8908.6	9292.6	9359.6	9466.8	9145.3	8033.3
17.5°	7414.9	7473.0	7486.3	7705.2	8020.0	8477.7	8966.7	9085.0	9299.4	9076.1	7883.8
20°	7089.0	7120.2	7149.2	7272.0	7555.6	8037.8	8660.8	8823.8	9143.0	9013.6	7716.3
22.5°	6992.9	7013.0	6988.4	7026.4	7227.4	7656.0	8328.1	8544.6	8993.5	8955.5	7580.1
25°	7066.6	7086.7	7028.7	6984.0	7053.2	7345.7	8006.6	8270.0	8872.9	8944.4	7477.4
27.5°	7245.3	7283.2	7202.8	7122.4	7082.2	7178.2	7754.3	8060.2	8790.3	8997.9	7430.5
30°	7524.3	7546.6	7486.3	7388.2	7296.5	7200.5	7622.6	7915.0	8768.0	9123.0	7426.1
32.5°	7828.0	7874.9	7841.4	7776.6	7658.3	7430.5	7660.5	7919.5	8821.5	9303.8	7481.9
35°	8203.1	8256.7	8287.9	8274.5	8122.7	7839.2	7901.6	8120.5	8964.4	9636.5	7633.7
37.5°	8571.5	8618.3	8794.7	8855.0	8721.1	8453.1	8370.5	8515.7	9279.3	10071.9	7908.4
40°	8993.5	9055.9	9303.8	9533.8	9469.1	9187.7	9035.9	9156.5	9761.5	10728.3	8428.6
42.5°	9397.6	9509.2	9886.5	10292.9	10353.2	10038.4	9937.9	9978.1	10476.0	11672.7	9154.2
45°	9971.4	10076.3	10563.1	11114.5	11398.1	11152.5	11049.8	11043.1	11456.2	13001.2	10330.9
47.5°	10799.8	10893.5	11467.3	12012.1	12516.7	12550.2	12356.0	12422.9	12688.7	14555.2	11773.2
50°	11815.6	12036.7	12414.0	12981.1	13655.4	14200.2	14260.5	14171.2	14398.9	16354.8	13505.8
52.5°	13291.5	13376.3	13722.4	14189.1	14979.4	15903.7	16620.5	16497.7	16426.2	18069.5	15256.3
55°	14392.2	14506.1	15044.2	15685.0	16843.7	18062.8	19616.8	19659.3	18757.2	19717.3	16968.8
57.5°	14059.5	14233.7	15048.6	16336.9	18884.5	21112.7	22269.3	22298.4	20914.0	21318.2	18902.3
60°	12351.5	12434.1	13601.8	15321.0	19058.6	24417.2	26031.5	25797.0	23108.8	23108.8	20610.4
62.5°	8759.0	8888.5	9835.2	12364.9	17212.1	25564.8	30537.2	30052.6	26131.9	24821.3	21628.5
65°	5597.4	5472.5	6099.8	7805.6	12822.6	23870.1	34460.1	34489.0	28976.4	25506.8	21072.6
67°	4054.6	4005.5	4186.4	5336.2	8694.3	20065.6	34542.7	36072.1	30610.8	25073.6	19295.3
67.5°	3708.6	3746.5	3878.3	4813.8	7899.5	18259.3	34167.5	35978.3	30979.2	24812.4	18652.2
70°	2811.0	2746.3	2889.2	3405.0	4735.7	11518.7	29391.7	32997.6	30521.5	22220.2	14903.5
72.5°	2067.5	2060.8	2259.5	2784.2	3646.0	6135.6	22063.9	26457.9	24935.2	16919.7	9384.2
75°	1395.5	1457.9	1775.1	2326.5	3304.4	3978.7	15041.9	19194.9	17310.4	9607.5	3835.8
77.5°	794.8	799.3	1143.2	1868.8	2967.3	3201.8	8913.0	12228.7	9163.1	3195.0	1138.7
80°	343.8	377.3	567.1	1357.5	2460.5	2835.6	5110.7	6720.6	3706.3	676.5	368.4
82.5°	127.2	149.6	250.1	835.1	1795.1	2335.5	3087.8	3208.4	1257.0	238.9	230.0
85°	0.0	4.5	91.5	390.7	935.5	1042.7	2063.0	1902.3	555.9	113.8	149.6
87.5°	0.0	0.0	0.0	40.2	122.8	388.5	640.8	714.5	134.0	40.2	35.7
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°	8857.3	8857.3	8857.3	8857.3	8857.3	8857.3	8857.3	8857.3	8857.3	8857.3	8857.3
2.5°	8790.3	8645.2	8281.2	7917.3	7647.1	7421.6	7082.2	6896.9	6798.7	6653.5	6662.5
5°	8569.2	8274.5	7633.7	6970.6	6434.8	5912.3	5287.1	5034.8	4822.7	4702.1	4621.7
7.5°	8241.0	7805.6	6856.7	5972.6	5148.7	4235.5	3550.0	3092.3	2784.2	2670.3	2561.0
10°	7881.5	7303.3	6068.6	4842.8	3699.7	2757.4	2176.9	1757.1	1607.6	1469.1	1482.5
12.5°	7548.9	6845.5	5345.1	3822.4	2592.2	1752.7	1366.4	1194.5	1145.4	1129.8	1129.8
15°	7276.5	6407.9	4568.2	2873.5	1777.3	1259.3	1094.0	1047.2	1029.3	1024.8	1024.8
17.5°	6986.2	5992.7	3867.1	2123.3	1292.7	1053.8	998.0	966.8	960.1	955.6	955.6
20°	6727.2	5575.1	3201.8	1580.8	1044.9	948.9	913.2	893.1	886.4	881.9	884.2
22.5°	6481.6	5204.5	2576.5	1194.5	919.9	864.0	828.3	808.2	794.8	783.7	785.9
25°	6262.8	4847.2	2072.0	978.0	828.3	779.2	743.5	714.5	685.4	672.0	669.9
27.5°	6108.7	4534.7	1614.2	837.3	745.7	692.2	647.5	611.8	573.8	553.7	549.3
30°	5981.5	4217.6	1277.2	739.1	663.1	611.8	555.9	504.6	464.4	444.4	435.3
32.5°	5898.9	3916.3	1006.9	658.7	593.9	531.4	468.9	417.5	372.9	352.7	348.3
35°	5885.5	3663.9	823.9	591.7	531.4	464.4	399.6	343.8	305.9	285.8	281.3
37.5°	5981.5	3469.7	689.9	538.1	480.1	406.4	334.9	283.5	250.1	234.4	232.2
40°	6238.2	3346.9	598.4	493.4	433.2	352.7	285.8	241.2	207.7	192.0	192.0
42.5°	6727.2	3351.3	538.1	451.0	386.3	301.5	243.4	200.9	171.9	158.6	154.1
45°	7490.8	3503.1	486.7	408.6	341.6	261.2	207.7	165.2	136.2	125.0	125.0
47.5°	8513.4	3804.6	442.1	366.1	301.5	223.3	176.4	134.0	109.4	98.3	98.3
50°	9850.8	4289.1	404.1	330.4	267.9	192.0	142.9	109.4	84.9	76.0	73.7
52.5°	11248.5	4887.5	359.5	299.2	230.0	163.0	116.1	84.9	64.8	58.0	55.8
55°	12791.3	5472.5	317.0	267.9	187.5	136.2	91.5	66.9	46.9	40.2	40.2
57.5°	14347.5	6046.2	265.7	223.3	147.4	100.5	71.4	49.1	31.2	24.6	24.6
60°	15664.9	6231.6	225.5	180.9	111.7	71.4	51.4	31.2	17.9	11.2	11.2
62.5°	15845.7	5606.4	189.8	138.4	80.4	49.1	26.8	17.9	6.7	4.5	4.5
65°	14863.3	4554.8	158.6	104.9	53.6	24.6	11.2	6.7	2.3	0.0	0.0
67°	13318.3	3692.9	129.5	78.1	38.0	15.7	6.7	2.3	0.0	0.0	0.0
67.5°	12923.1	3521.0	125.0	73.7	33.5	13.4	4.5	2.3	0.0	0.0	0.0
70°	10141.1	2636.8	89.3	44.6	20.1	8.9	0.0	0.0	0.0	0.0	0.0
72.5°	6303.0	1491.5	64.8	26.8	13.4	4.5	0.0	0.0	0.0	0.0	0.0
75°	2382.4	522.5	44.6	17.9	8.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	741.3	198.7	26.8	13.4	4.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	250.1	76.0	17.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	154.1	31.2	11.2	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	96.0	13.4	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.9	4.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0	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)