

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: P458010

Luminaire Tested: **GALN-SA9B-827-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458010
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30360 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

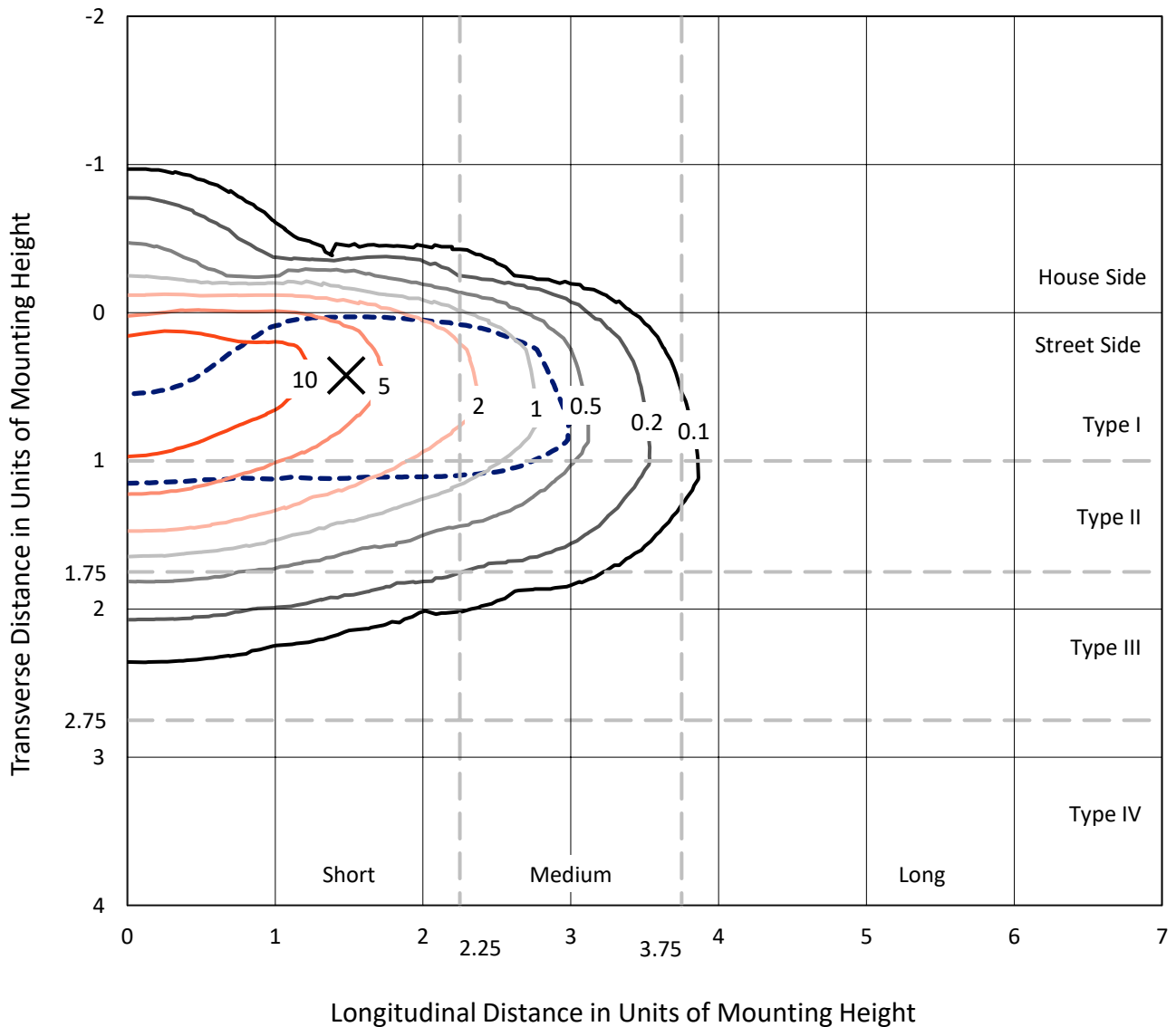
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

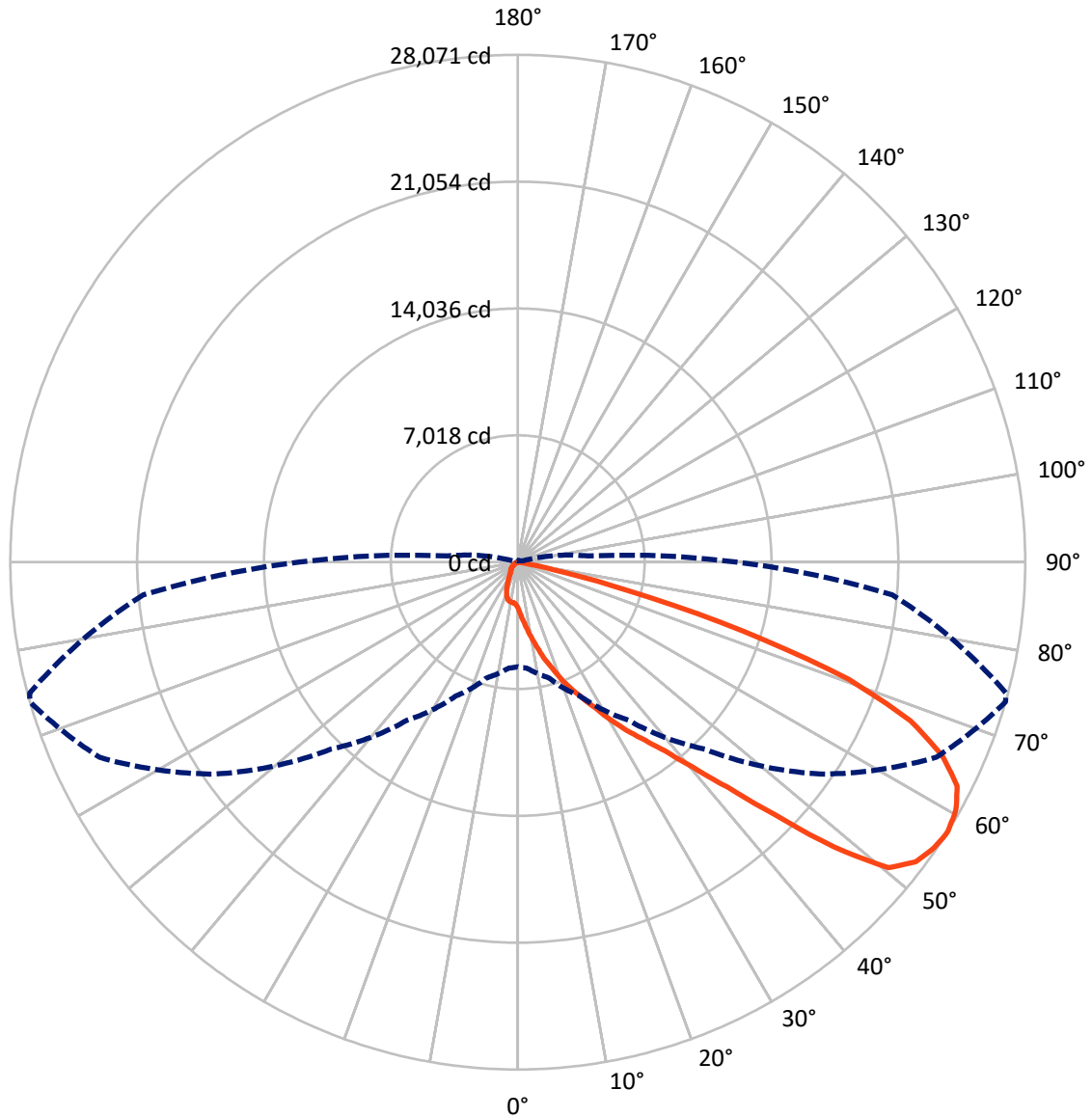
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1751.1	0.0	1751.1
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	28608.9	0.0	28608.9
	% Fixture	94.2	0.0	94.2
Total	Lumens	30360.0	0.0	30360.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.9	1.0
10°-20°	1209.7	4.0
20°-30°	2588.4	8.5
30°-40°	4757.5	15.7
40°-50°	7293.3	24.0
50°-60°	7715.3	25.4
60°-70°	5038.3	16.6
70°-80°	1376.6	4.5
80°-90°	74.1	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°	30360.0	100.0
0°-180°	30360.0	100.0

Coefficient of Utilization

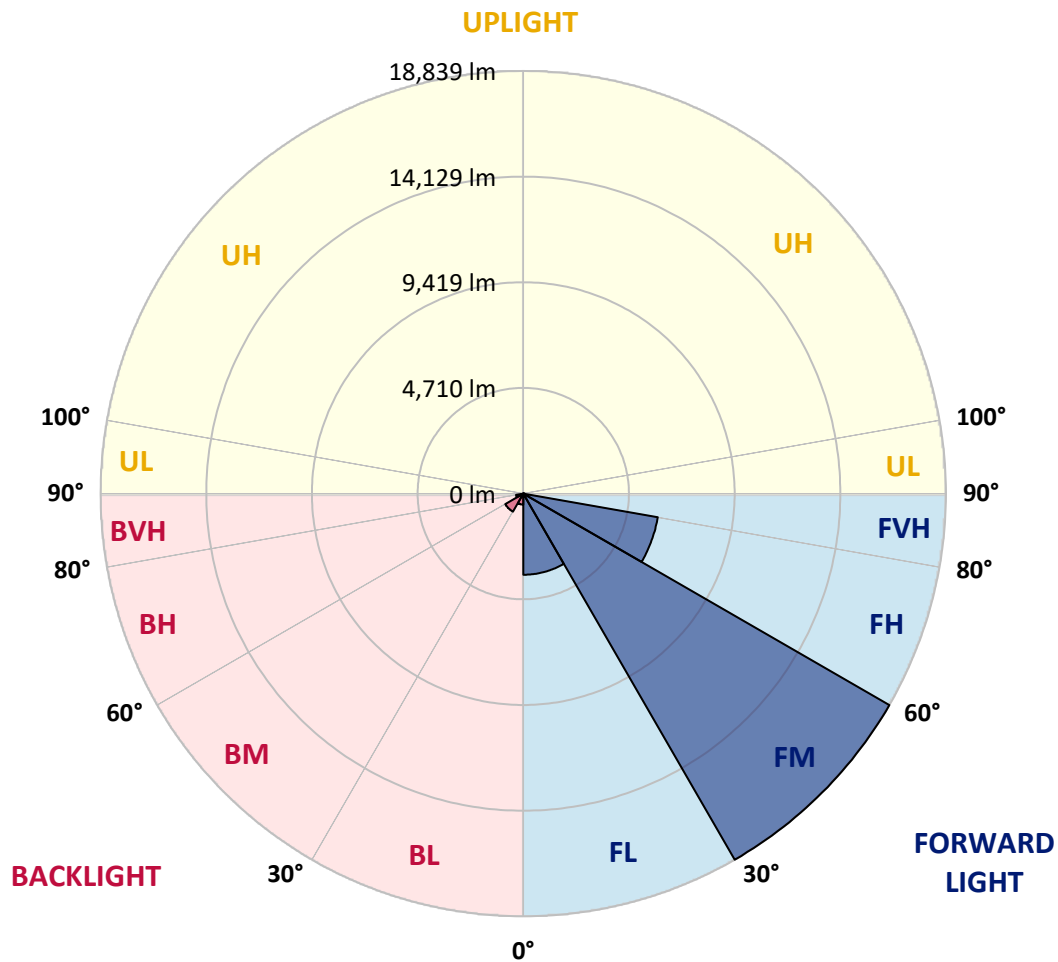


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3615.8	11.9			
FM (30°-60°)	18838.9	62.1			
FH (60°-80°)	6086.2	20.0			G3/7500
FVH (80°-90°)	68.0	0.2			G1/100
BL (0°-30°)	489.1	1.6	B1/500		
BM (30°-60°)	927.1	3.1	B1/1000		
BH (60°-80°)	328.8	1.1	B1/500		G1/500
BVH (80°-90°)	6.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2542.6	2542.6	2542.6	2542.6	2542.6	2542.6	2542.6	2542.6	2542.6	2542.6	2542.6
2.5°	3720.6	3687.1	3620.0	3597.0	3498.4	3345.4	3211.3	3031.0	2888.5	2873.8	2701.9
5°	4982.5	4907.0	4875.6	4724.7	4487.8	4265.6	3884.1	3594.9	3261.6	3236.4	2890.6
7.5°	6198.3	6093.5	6062.0	5919.5	5642.8	5292.7	4798.1	4271.9	3743.7	3695.5	3144.2
10°	7078.6	7093.3	7036.7	6942.4	6718.1	6361.8	5751.8	5032.8	4280.3	4219.5	3429.3
12.5°	7709.6	7707.5	7718.0	7715.9	7596.4	7326.0	6684.6	5856.6	4871.4	4751.9	3756.3
15°	8120.4	8126.7	8158.2	8267.2	8279.7	8112.0	7577.5	6644.7	5556.9	5408.0	4110.5
17.5°	8535.5	8579.5	8629.8	8732.5	8824.7	8757.6	8380.3	7466.4	6177.3	6066.2	4489.9
20°	9220.9	9281.7	9252.3	9315.2	9363.4	9369.7	9078.4	8225.2	6929.8	6743.3	4923.8
22.5°	10317.2	10315.1	10239.6	10126.4	10032.1	10027.9	9763.8	9005.0	7613.2	7432.9	5359.8
25°	11702.7	11709.0	11562.3	11239.5	11004.7	10717.5	10413.6	9688.3	8344.7	8122.5	5818.9
27.5°	13291.6	13251.8	13029.6	12585.2	12119.8	11629.4	11191.3	10482.8	9120.3	8935.8	6345.0
30°	14719.1	14704.4	14444.5	13901.6	13289.5	12796.9	12161.8	11478.4	10124.3	9897.9	6934.0
32.5°	16048.0	16069.0	15708.4	15146.7	14555.6	13987.5	13316.7	12430.1	11109.5	10788.8	7575.4
35°	17085.6	17106.5	16733.4	16266.0	15658.1	15186.5	14547.2	13444.6	12082.1	11811.7	8313.3
37.5°	17639.0	17666.2	17450.3	17098.2	16718.8	16481.9	15886.6	14750.5	13264.3	13100.8	9185.3
40°	17743.8	17775.2	17680.9	17586.6	17565.6	17735.4	17561.4	16289.1	14903.5	14647.8	10484.9
42.5°	17429.4	17471.3	17513.2	17722.8	18150.4	18773.0	19378.8	18376.8	17014.3	16670.6	12073.7
45°	16603.5	16599.3	16764.9	17307.8	18265.7	19594.7	21277.9	20990.7	19890.2	19481.5	14318.7
47.5°	15190.7	15169.7	15528.2	16301.6	17794.1	19745.6	22826.9	24164.2	23560.5	23183.2	16731.3
50°	13038.0	13140.7	13704.5	14784.0	16622.3	19288.6	23304.8	26245.7	26572.7	26172.3	18680.7
52.5°	10516.3	10512.1	11396.7	12861.9	14886.7	18282.5	22971.5	26623.0	27551.6	27245.5	19640.8
55°	7782.9	7837.4	8757.6	10235.4	12633.4	16446.3	21883.6	26235.2	27924.7	27708.8	20273.8
57°	5789.5	5885.9	6623.8	8187.5	10671.4	14628.9	20435.2	25541.4	28071.4	27954.0	20799.9
57.5°	5403.8	5408.0	6127.0	7548.2	10097.1	13930.9	20020.2	25252.1	28067.2	28002.3	20885.9
60°	3326.6	3431.4	3928.2	5102.0	7391.0	10872.6	17238.6	23589.9	27849.2	27943.6	21252.7
62.5°	1991.3	2035.3	2358.2	3075.0	4764.5	7936.0	14107.0	21462.3	27281.2	27568.4	21227.5
65°	1280.7	1291.2	1437.9	1861.4	2978.6	5364.0	10870.6	18651.4	25811.8	26340.0	20397.5
67.5°	989.4	1006.1	1064.8	1222.0	1727.2	3341.2	7688.6	15651.8	23434.8	24116.0	18385.2
70°	878.3	886.7	907.6	957.9	1142.4	1886.5	4783.4	12226.7	19433.3	19626.1	14387.9
72.5°	716.9	739.9	804.9	821.7	905.5	1178.0	2662.1	8206.4	13056.8	13105.0	8049.2
75°	555.5	559.7	656.1	704.3	763.0	811.2	1188.5	4137.8	6271.6	5936.3	3102.3
77.5°	415.0	433.9	477.9	538.7	622.6	580.6	532.4	1559.5	1947.3	1911.7	901.3
80°	266.2	276.7	333.3	404.6	484.2	379.4	299.7	457.0	427.6	440.2	215.9
82.5°	134.2	136.2	213.8	329.1	308.1	190.7	188.7	186.6	159.3	157.2	100.6
85°	14.7	31.4	138.3	188.7	138.3	62.9	88.0	85.9	83.8	85.9	58.7
87.5°	2.1	2.1	23.1	27.2	18.9	21.0	25.2	27.2	33.5	31.4	25.2
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°	2542.6	2542.6	2542.6	2542.6	2542.6	2542.6	2542.6	2542.6	2542.6	2542.6	2542.6
2.5°	2618.1	2534.2	2379.1	2230.3	2119.2	2047.9	1955.7	1922.2	1873.9	1867.7	1844.6
5°	2731.3	2572.0	2301.6	2087.7	1915.9	1785.9	1672.7	1578.4	1502.9	1486.2	1494.5
7.5°	2892.7	2655.8	2278.5	1987.1	1748.2	1526.0	1345.7	1234.6	1155.0	1125.6	1129.8
10°	3075.0	2766.9	2274.3	1880.2	1515.5	1243.0	1046.0	947.5	901.3	884.6	865.7
12.5°	3290.9	2894.8	2263.8	1714.6	1259.8	991.5	851.0	792.3	748.3	735.7	735.7
15°	3534.1	3031.0	2213.5	1509.2	1022.9	819.6	725.3	679.1	664.5	651.9	651.9
17.5°	3787.7	3165.2	2108.7	1255.6	848.9	702.2	643.5	616.3	595.3	580.6	580.6
20°	4077.0	3297.2	1941.0	1031.3	716.9	626.7	580.6	549.2	532.4	519.8	515.6
22.5°	4351.6	3404.1	1727.2	846.8	624.6	563.9	521.9	488.4	471.6	465.3	465.3
25°	4636.6	3469.1	1469.4	700.1	570.1	511.5	465.3	438.1	423.4	419.2	417.1
27.5°	4913.3	3506.8	1243.0	612.1	519.8	463.2	419.2	398.3	383.6	379.4	381.5
30°	5248.7	3513.1	1022.9	549.2	475.8	417.1	377.3	358.4	350.1	345.9	343.8
32.5°	5588.3	3504.7	859.4	511.5	433.9	377.3	343.8	329.1	322.8	316.5	316.5
35°	5969.8	3460.7	731.6	473.7	394.1	343.8	314.4	301.8	293.5	287.2	285.1
37.5°	6443.5	3437.7	658.2	431.8	358.4	312.3	285.1	272.5	266.2	257.8	255.7
40°	7189.7	3540.4	635.1	394.1	322.8	283.0	257.8	243.2	234.8	226.4	224.3
42.5°	8120.4	3720.6	597.4	356.3	291.4	255.7	230.6	213.8	199.1	188.7	184.5
45°	9325.7	3957.5	538.7	316.5	264.1	226.4	203.3	182.4	163.5	155.1	153.0
47.5°	10589.7	4186.0	486.3	285.1	234.8	201.2	176.1	153.0	136.2	130.0	127.9
50°	11365.2	4232.1	452.8	249.4	205.4	174.0	148.8	127.9	117.4	111.1	111.1
52.5°	11719.5	4158.7	406.6	218.0	178.2	153.0	127.9	111.1	104.8	100.6	98.5
55°	11966.8	4045.5	345.9	188.7	153.0	130.0	113.2	100.6	92.2	88.0	85.9
57°	12111.5	3892.5	299.7	165.6	132.1	113.2	100.6	90.1	81.7	73.4	73.4
57.5°	12117.8	3833.8	287.2	163.5	125.8	109.0	98.5	88.0	77.6	69.2	67.1
60°	11931.2	3431.4	230.6	138.3	100.6	92.2	81.7	69.2	54.5	46.1	44.0
62.5°	11331.7	2919.9	190.7	117.4	81.7	71.3	58.7	52.4	37.7	27.2	27.2
65°	10424.1	2368.6	163.5	94.3	67.1	52.4	39.8	37.7	23.1	12.6	10.5
67.5°	9111.9	1844.6	138.3	77.6	56.6	37.7	27.2	25.2	12.6	4.2	0.0
70°	6942.4	1257.7	115.3	62.9	41.9	27.2	18.9	14.7	8.4	2.1	0.0
72.5°	4001.5	691.7	96.4	48.2	31.4	21.0	14.7	8.4	8.4	0.0	0.0
75°	1429.6	297.7	73.4	35.6	25.2	16.8	10.5	4.2	6.3	2.1	0.0
77.5°	454.9	159.3	48.2	27.2	21.0	12.6	8.4	4.2	4.2	2.1	0.0
80°	134.2	83.8	29.3	23.1	14.7	10.5	6.3	2.1	4.2	2.1	0.0
82.5°	73.4	41.9	23.1	16.8	14.7	8.4	6.3	2.1	2.1	2.1	0.0
85°	37.7	25.2	18.9	16.8	14.7	8.4	6.3	2.1	0.0	2.1	2.1
87.5°	21.0	18.9	18.9	16.8	14.7	10.5	6.3	2.1	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)