

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: P459375

Luminaire Tested: **GALN-SA8B-735-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459375
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31425 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

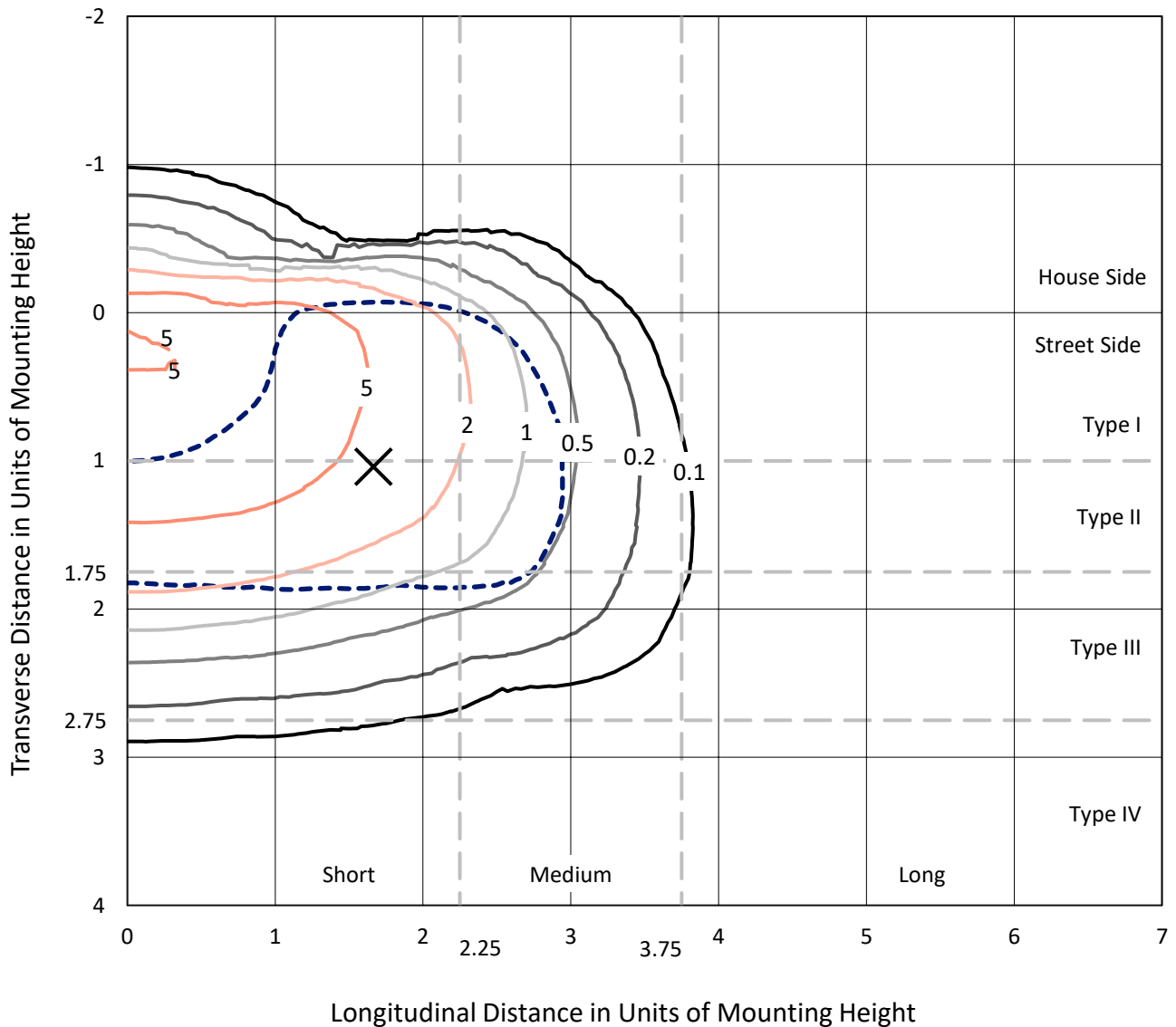
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

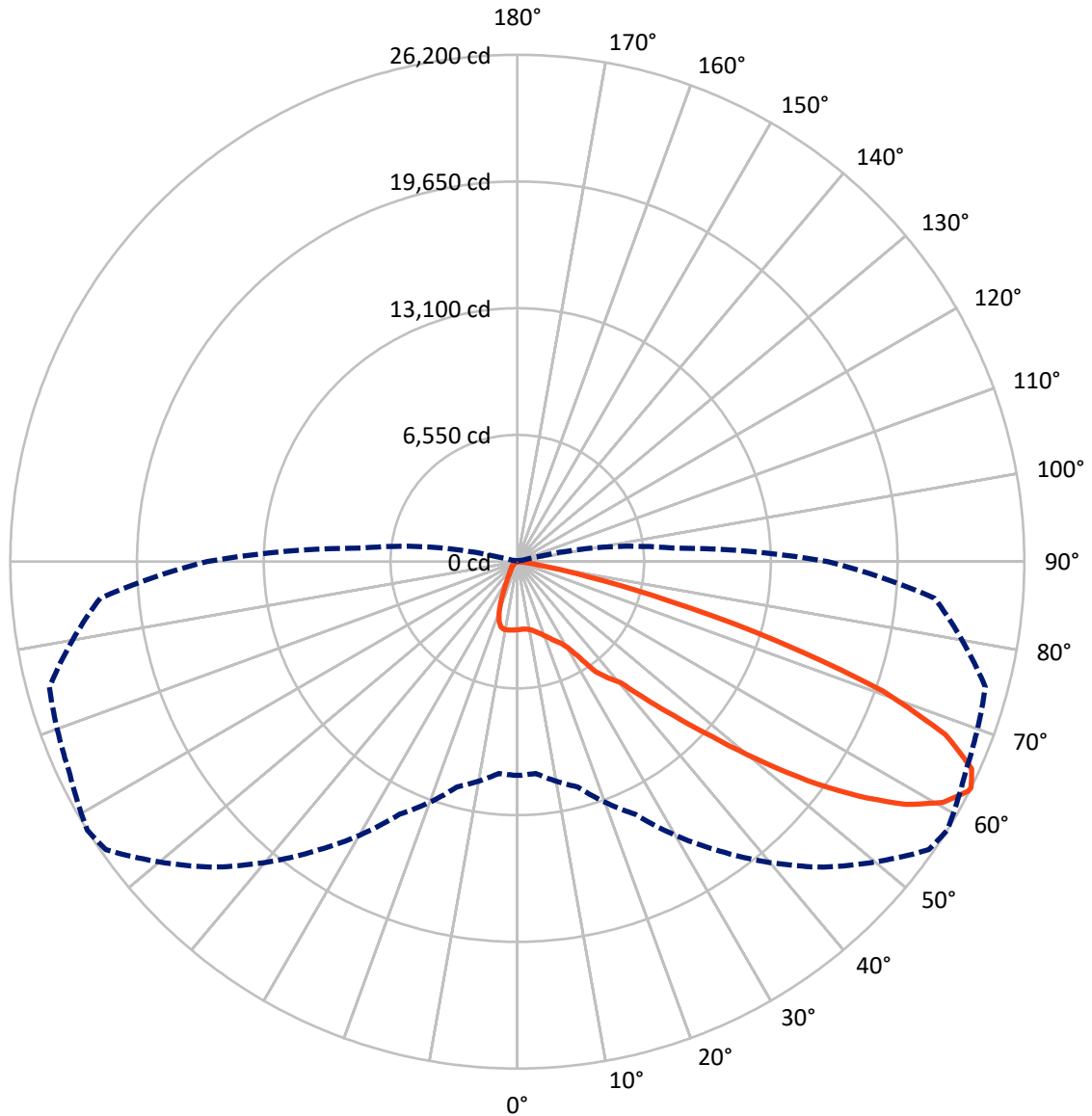
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3253.9	0.0	3253.9
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	28171.1	0.0	28171.1
	% Fixture	89.6	0.0	89.6
Total	Lumens	31425.0	0.0	31425.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.3	1.0
10°-20°	897.0	2.9
20°-30°	1556.8	5.0
30°-40°	2860.8	9.1
40°-50°	5385.5	17.1
50°-60°	9211.4	29.3
60°-70°	8820.0	28.1
70°-80°	2249.1	7.2
80°-90°	115.0	0.4
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°	31425.0	100.0
0°-180°	31425.0	100.0

Coefficient of Utilization



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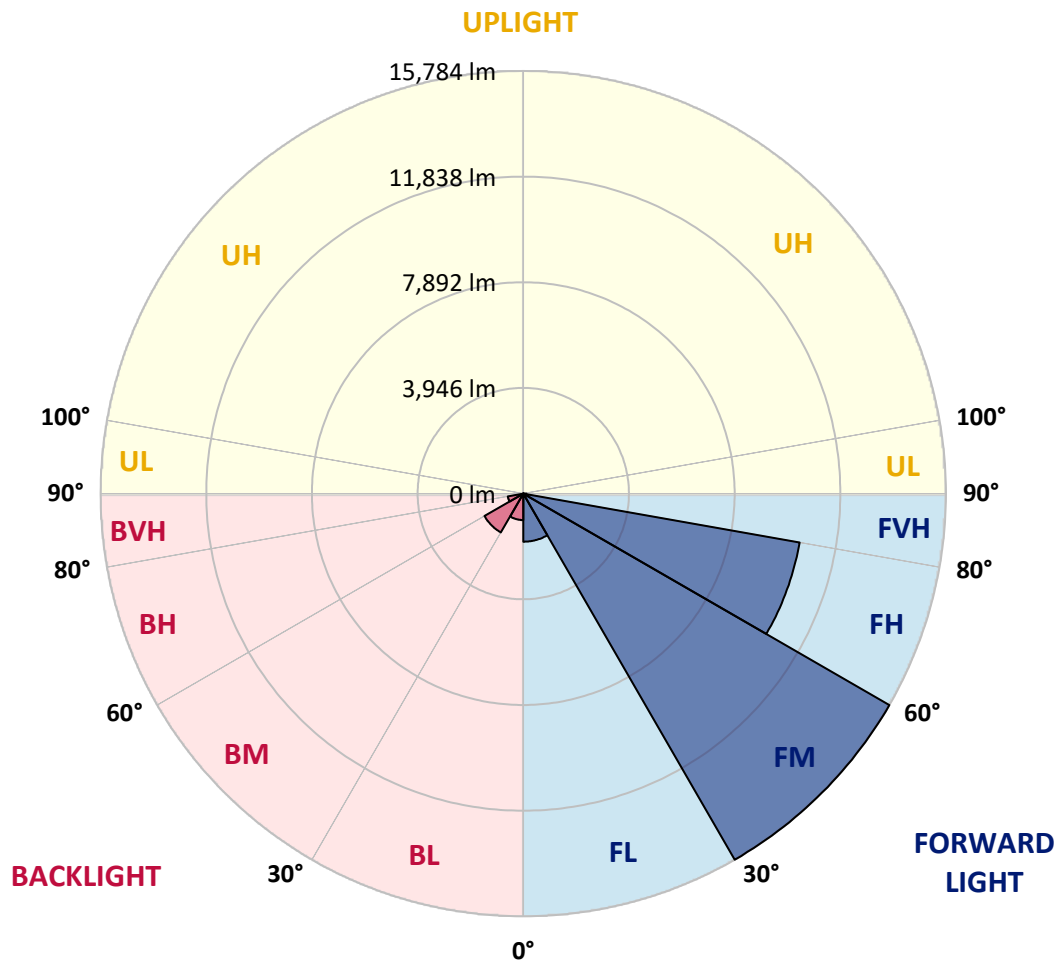
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1796.4	5.7			
FM	(30°-60°)	15784.1	50.2			
FH	(60°-80°)	10480.1	33.3			G4/12000
FVH	(80°-90°)	110.5	0.4			G2/225
BL	(0°-30°)	986.8	3.1	B2/1000		
BM	(30°-60°)	1673.6	5.3	B2/2500		
BH	(60°-80°)	589.0	1.9	B2/1000		G2/1000
BVH	(80°-90°)	4.5	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3518.2	3518.2	3518.2	3518.2	3518.2	3518.2	3518.2	3518.2	3518.2	3518.2	3518.2
2.5°	3430.6	3442.4	3454.3	3459.0	3475.6	3492.1	3504.0	3501.6	3520.5	3530.0	3530.0
5°	3293.4	3293.4	3324.1	3352.5	3399.9	3447.2	3492.1	3501.6	3537.1	3570.2	3582.0
7.5°	3177.5	3184.6	3208.2	3260.3	3324.1	3407.0	3496.9	3518.2	3579.7	3653.0	3683.8
10°	3123.0	3127.8	3158.5	3212.9	3293.4	3407.0	3532.3	3572.6	3667.2	3783.1	3825.7
12.5°	3111.2	3118.3	3149.1	3210.6	3302.8	3440.1	3610.4	3653.0	3790.2	3939.3	4003.2
15°	3132.5	3137.2	3168.0	3234.2	3336.0	3499.2	3714.5	3773.7	3936.9	4109.6	4192.4
17.5°	3208.2	3203.5	3224.8	3279.2	3392.8	3572.6	3839.9	3910.9	4102.5	4339.1	4393.5
20°	3530.0	3499.2	3480.3	3433.0	3477.9	3676.7	3991.3	4095.4	4332.0	4573.4	4611.2
22.5°	4223.2	4154.6	4019.7	3835.2	3693.2	3818.6	4173.5	4294.2	4599.4	4836.0	4836.0
25°	5105.7	5018.2	4883.3	4481.1	4133.3	4052.9	4379.4	4530.8	4890.4	5129.4	5051.3
27.5°	6210.6	6142.0	5879.4	5410.9	4878.6	4462.2	4618.3	4757.9	5148.3	5436.9	5273.7
30°	7109.6	7076.5	6861.2	6442.5	5855.7	5247.7	5063.1	5155.4	5491.3	5824.9	5657.0
32.5°	7869.1	7869.1	7649.1	7258.7	6709.8	6170.4	5817.8	5884.1	6205.9	6591.5	6279.2
35°	8704.3	8675.9	8498.5	8127.0	7511.9	7036.3	6892.0	6981.9	7272.9	7559.2	6790.2
37.5°	9582.1	9572.6	9388.0	9028.4	8526.8	7928.3	7589.9	7613.6	7762.6	7937.7	7388.8
40°	10535.5	10549.7	10308.4	10086.0	9612.8	9000.0	8351.8	8202.7	8342.3	8836.8	8493.7
42.5°	11661.7	11628.6	11524.5	11221.6	10840.7	10474.0	9695.6	9641.2	9764.2	10294.2	9922.7
45°	12970.1	13017.4	12837.6	12669.6	12414.1	12108.9	11458.2	11363.6	11498.5	12321.8	11794.2
47.5°	14280.8	14235.9	14351.8	14321.0	14458.2	14231.1	13656.2	13462.2	13786.3	14567.1	13791.1
50°	15279.2	15328.9	15570.2	15922.8	16511.9	16639.6	16088.4	16022.1	16166.5	16668.0	15577.3
52.5°	15927.5	16093.1	16471.7	17377.8	18440.1	19265.8	18847.1	18811.6	18752.4	18887.3	17285.5
55°	16351.0	16519.0	17013.5	18347.9	20176.7	21518.2	21539.5	21388.1	20997.7	20900.7	18882.6
57.5°	16090.7	16123.9	16828.9	18612.8	21139.7	23124.7	23820.3	23668.8	22947.2	22580.5	20292.7
60°	14463.0	14531.6	15513.5	17609.7	20720.9	23649.9	25332.1	25263.5	24473.3	24059.2	21390.4
62.5°	11578.9	11777.6	12787.9	15125.4	18773.7	22765.1	25944.9	26138.9	25523.7	24953.6	21735.9
63°	11048.9	10985.1	12052.1	14401.5	18257.9	22327.4	25954.3	26200.4	25571.1	25038.7	21641.2
65°	8179.0	8370.7	9063.9	11356.5	15194.1	20290.3	25370.0	25805.3	25396.0	24662.5	20593.1
67.5°	4592.3	4582.8	5349.4	7431.4	10634.9	15915.7	22940.1	23860.5	23775.3	22131.0	17070.2
70°	2247.6	2283.1	2597.8	3851.7	6168.0	10980.3	19062.4	20056.1	20086.8	17382.5	11803.7
72.5°	1017.4	1033.9	1258.7	1876.2	3170.4	5846.2	13135.7	14084.4	13909.4	11077.3	6518.2
75°	537.1	572.6	693.2	944.0	1528.4	2410.9	7145.1	8063.1	7696.4	5060.7	2399.1
77.5°	397.5	409.3	470.8	600.9	818.6	939.3	3082.8	3667.2	3435.3	1831.2	795.0
80°	291.0	300.5	350.2	425.9	515.8	477.9	1161.7	1332.0	1194.8	622.2	243.7
82.5°	177.4	179.8	255.5	317.0	324.1	267.4	383.3	411.7	430.6	350.2	132.5
85°	63.9	80.4	172.7	229.5	191.6	134.9	160.9	177.4	194.0	222.4	78.1
87.5°	7.1	9.5	82.8	111.2	54.4	49.7	59.1	66.2	71.0	82.8	37.9
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°	3518.2	3518.2	3518.2	3518.2	3518.2	3518.2	3518.2	3518.2	3518.2	3518.2	3518.2
2.5°	3539.4	3548.9	3541.8	3530.0	3527.6	3520.5	3506.3	3506.3	3506.3	3511.1	3506.3
5°	3591.5	3598.6	3582.0	3558.4	3532.3	3499.2	3463.7	3442.4	3440.1	3435.3	3423.5
7.5°	3690.9	3700.3	3662.5	3605.7	3534.7	3454.3	3378.6	3307.6	3274.5	3248.4	3248.4
10°	3835.2	3844.6	3768.9	3667.2	3525.2	3362.0	3182.2	3018.9	2891.2	2832.0	2817.8
12.5°	4007.9	4012.6	3887.2	3709.8	3475.6	3160.9	2777.6	2420.4	2171.9	2058.4	2046.5
15°	4197.2	4164.1	3998.4	3726.4	3333.6	2746.9	2084.4	1646.7	1388.8	1313.1	1341.5
17.5°	4388.8	4327.3	4083.6	3700.3	3014.2	2084.4	1400.6	1123.8	1043.4	1022.1	1022.1
20°	4568.6	4483.5	4145.1	3586.8	2460.6	1436.1	1038.6	972.4	958.2	944.0	946.4
22.5°	4748.4	4618.3	4199.5	3333.6	1833.6	1026.8	929.8	908.5	889.6	870.7	868.3
25°	4923.5	4743.7	4220.8	2865.2	1249.2	882.5	849.4	821.0	783.1	761.8	757.1
27.5°	5105.7	4895.1	4206.6	2273.7	910.9	790.2	757.1	716.9	671.9	634.1	634.1
30°	5455.9	5183.8	4157.0	1634.9	766.6	695.6	653.0	589.1	539.4	501.6	499.2
32.5°	5933.8	5560.0	3986.6	1149.8	681.4	612.8	548.9	477.9	425.9	397.5	397.5
35°	6359.6	5938.5	3667.2	847.0	612.8	532.3	454.3	385.6	345.4	326.5	319.4
37.5°	7007.9	6492.1	3227.1	688.5	546.5	461.4	380.9	317.0	283.9	269.7	269.7
40°	7980.3	7168.8	2687.7	603.3	482.7	392.7	317.0	267.4	241.3	224.8	224.8
42.5°	9186.9	7996.9	2141.2	541.8	423.5	338.3	265.0	227.1	203.5	191.6	189.3
45°	10705.9	8869.9	1649.1	485.0	376.2	288.6	224.8	191.6	168.0	160.9	163.2
47.5°	12291.0	9638.8	1277.6	435.3	326.5	243.7	191.6	165.6	149.1	139.6	139.6
50°	13644.4	10168.8	970.0	378.6	288.6	205.8	168.0	149.1	134.9	130.1	127.8
52.5°	14775.3	10322.6	742.9	328.9	253.2	177.4	149.1	134.9	123.0	115.9	115.9
55°	15738.2	10187.7	582.0	276.8	212.9	153.8	132.5	120.7	106.5	99.4	97.0
57.5°	16301.3	9754.8	444.8	229.5	172.7	127.8	115.9	101.7	85.2	73.3	73.3
60°	16585.2	9125.4	340.7	189.3	132.5	101.7	94.6	75.7	59.1	49.7	47.3
62.5°	16244.5	8290.2	257.9	149.1	99.4	75.7	63.9	54.4	37.9	28.4	28.4
63°	16034.0	8048.9	248.4	142.0	92.3	71.0	59.1	49.7	33.1	26.0	23.7
65°	14616.8	6996.1	203.5	113.6	73.3	49.7	40.2	35.5	23.7	11.8	9.5
67.5°	11607.3	5351.8	160.9	85.2	52.1	35.5	23.7	21.3	7.1	0.0	0.0
70°	7847.8	3456.6	125.4	61.5	35.5	21.3	11.8	9.5	2.4	0.0	0.0
72.5°	4093.1	1772.1	97.0	45.0	21.3	14.2	7.1	2.4	0.0	0.0	0.0
75°	1448.0	603.3	71.0	28.4	14.2	7.1	2.4	0.0	0.0	0.0	0.0
77.5°	437.7	224.8	45.0	21.3	9.5	4.7	0.0	0.0	0.0	0.0	0.0
80°	153.8	82.8	26.0	14.2	7.1	2.4	0.0	0.0	0.0	0.0	0.0
82.5°	75.7	40.2	16.6	11.8	7.1	2.4	0.0	0.0	0.0	0.0	0.0
85°	42.6	26.0	14.2	11.8	7.1	4.7	0.0	0.0	0.0	0.0	0.0
87.5°	30.8	18.9	14.2	11.8	9.5	4.7	2.4	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)