

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: P459495

Luminaire Tested: **GALN-SA9B-735-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459495
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34603 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

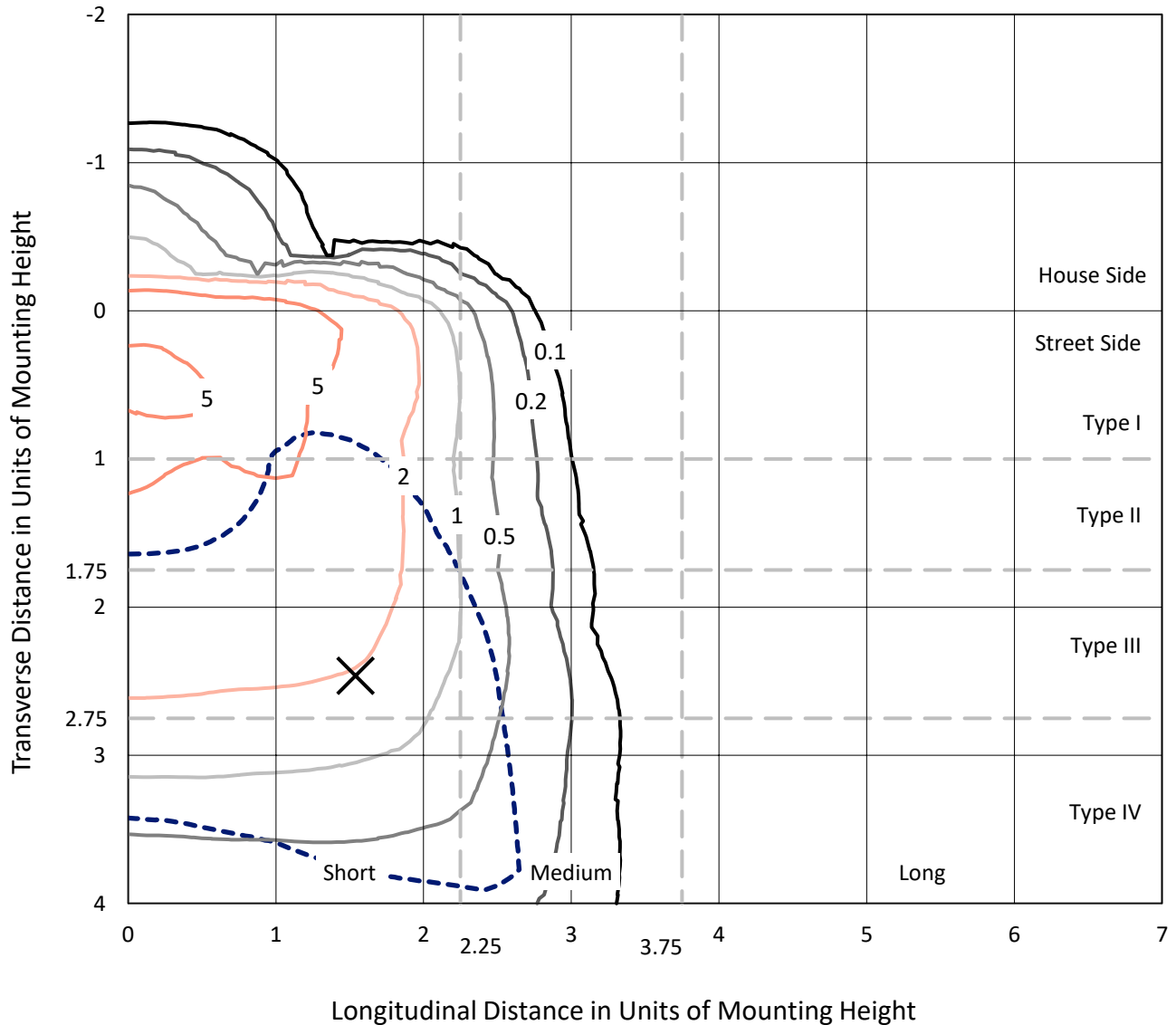
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

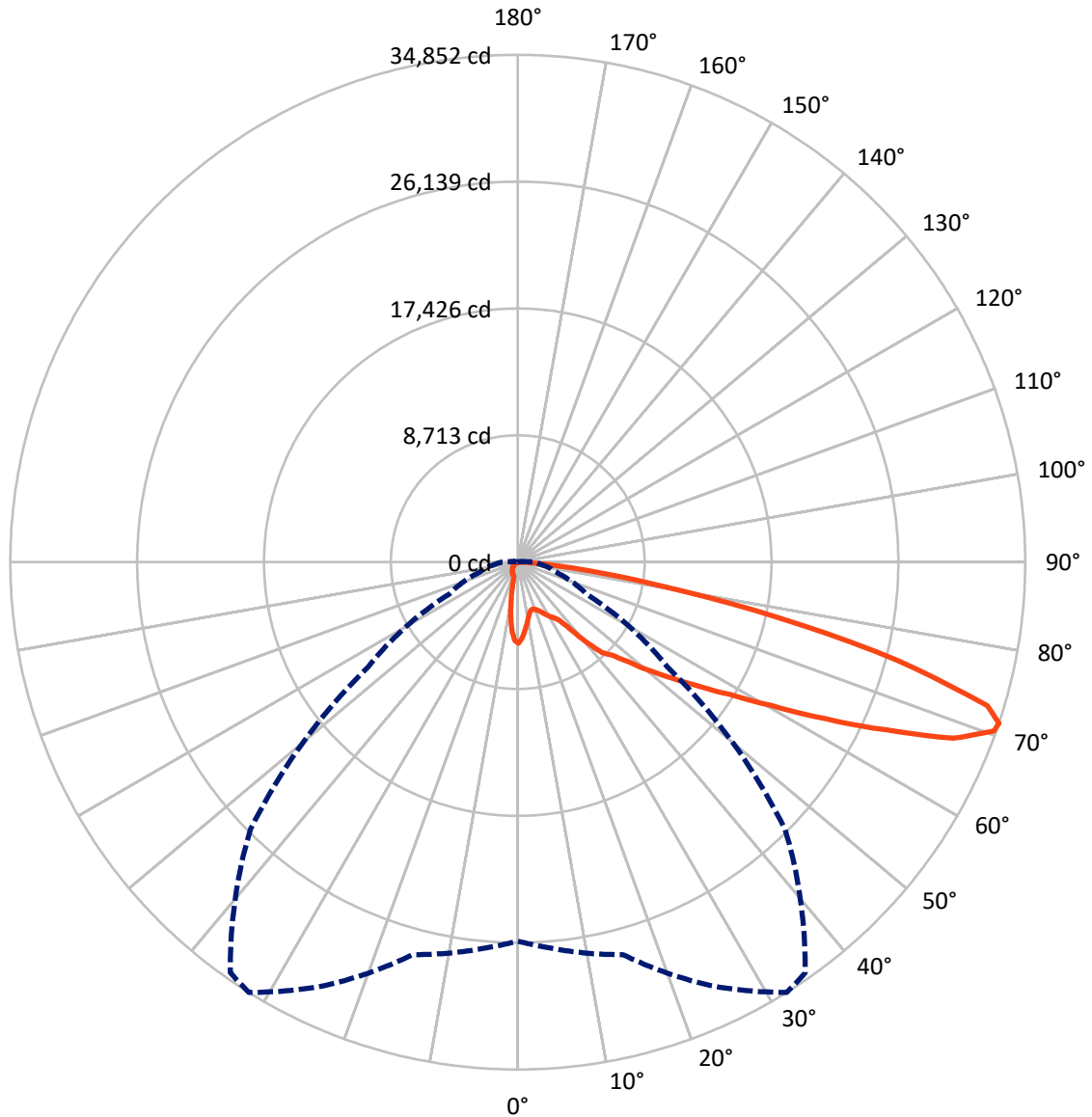
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2898.4	0.0	2898.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	31704.6	0.0	31704.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	34603.0	0.0	34603.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.5	1.3
10°-20°	982.0	2.8
20°-30°	1527.7	4.4
30°-40°	2545.2	7.4
40°-50°	4734.5	13.7
50°-60°	7601.5	22.0
60°-70°	10224.3	29.5
70°-80°	6066.2	17.5
80°-90°	468.9	1.4
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°	34603.0	100.0
0°-180°	34603.0	100.0



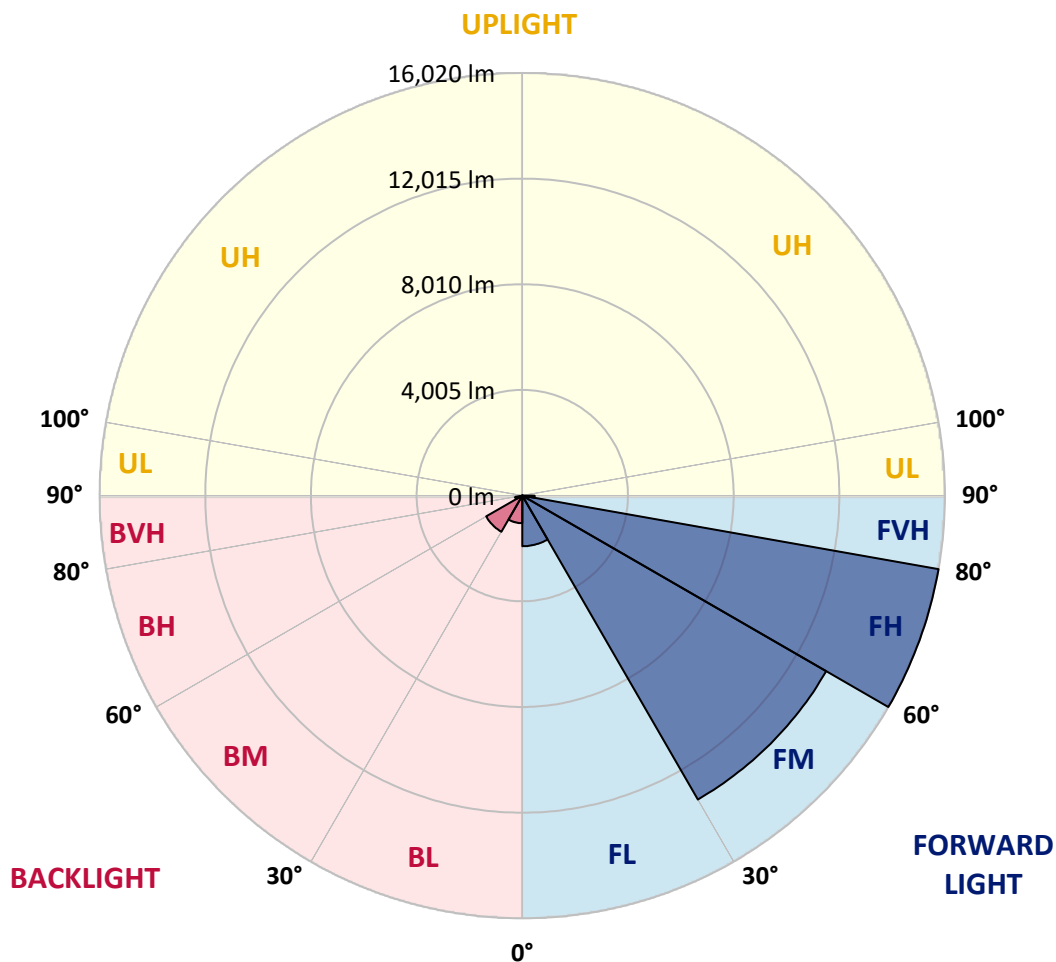
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1917.9	5.5			
FM	(30°-60°)	13300.1	38.4			
FH	(60°-80°)	16019.5	46.3			G5
FVH	(80°-90°)	467.1	1.3			G3/500
BL	(0°-30°)	1044.3	3.0	B3/2500		
BM	(30°-60°)	1581.1	4.6	B2/2500		
BH	(60°-80°)	271.1	0.8	B1/500		G1/500
BVH	(80°-90°)	1.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	5564.7	5564.7	5564.7	5564.7	5564.7	5564.7	5564.7	5564.7	5564.7	5564.7	5564.7
2.5°	5161.0	5214.1	5206.1	5224.7	5269.9	5288.5	5338.9	5394.7	5471.7	5524.9	5559.4
5°	4621.8	4661.6	4666.9	4759.9	4805.0	4855.5	5004.2	5166.3	5346.9	5490.3	5586.0
7.5°	4045.4	4066.6	4109.1	4231.3	4345.5	4396.0	4621.8	4903.3	5187.5	5455.8	5628.5
10°	3569.9	3593.8	3670.8	3801.0	3907.2	3973.6	4287.1	4640.4	5038.8	5437.2	5689.5
12.5°	3299.0	3312.3	3341.5	3458.3	3593.8	3665.5	4002.9	4406.6	4919.3	5445.2	5793.1
15°	3280.4	3275.1	3240.5	3288.4	3410.5	3484.9	3814.3	4247.2	4813.0	5471.7	5915.3
17.5°	3378.7	3365.4	3283.0	3283.0	3384.0	3445.1	3734.6	4162.2	4759.9	5532.8	6088.0
20°	3530.1	3508.8	3373.4	3362.7	3461.0	3524.8	3782.4	4167.6	4770.5	5647.0	6319.1
22.5°	3721.3	3697.4	3492.9	3498.2	3604.4	3668.2	3920.5	4263.2	4836.9	5787.8	6566.1
25°	3971.0	3944.4	3702.7	3692.1	3803.7	3859.4	4125.1	4433.2	4929.9	5963.1	6890.1
27.5°	4303.0	4247.2	3957.7	3941.8	4061.3	4133.0	4372.1	4661.6	5094.6	6204.8	7325.8
30°	4576.6	4515.5	4239.3	4196.8	4324.3	4380.0	4627.1	4969.7	5418.6	6627.2	7928.7
32.5°	4935.2	4844.9	4520.8	4409.3	4544.7	4616.4	4996.3	5543.5	5899.4	7073.4	8645.9
35°	5742.7	5686.9	5291.1	4900.7	4892.7	4983.0	5540.8	6122.5	6393.4	7769.3	9623.4
37.5°	6898.1	6858.3	6438.6	5915.3	5763.9	5721.4	6202.2	6760.0	7182.3	8725.6	10760.2
40°	8239.5	8146.5	7761.4	7317.8	7121.2	6996.4	6983.1	7708.2	8212.9	10024.4	11944.9
42.5°	9201.0	9031.0	8563.5	8531.7	8489.2	8359.0	7981.8	9094.8	9543.7	11421.6	13211.9
45°	10210.4	9952.7	9256.8	9137.3	9121.3	9113.4	9490.5	10736.3	10993.9	12935.6	14513.4
47.5°	10993.9	10789.4	10218.3	10165.2	10231.6	10412.2	11485.3	12478.7	12425.6	14285.0	15605.1
50°	12037.8	11883.8	11248.9	11349.9	11692.5	11987.4	13735.1	14377.9	13602.3	15347.4	16399.3
52.5°	13270.3	12986.1	12396.4	12670.0	13195.9	13687.3	16123.0	16040.7	14428.4	16146.9	16991.6
55°	14338.1	14136.2	13934.3	14218.5	15004.8	15618.4	18279.8	17286.4	15028.7	16789.7	17251.9
57.5°	16144.3	16096.5	15889.3	16178.8	17132.4	17769.9	20210.9	18253.3	15413.8	17124.4	16946.4
60°	18816.4	18739.4	18354.2	18723.4	19966.5	20967.9	21990.5	19121.9	15501.5	16994.3	16067.2
62.5°	22030.4	21767.4	21438.1	21982.6	23687.8	24128.8	23666.6	19637.2	15174.8	15958.3	13947.6
65°	25031.9	24760.9	24768.9	25916.4	27773.0	28073.2	25621.5	19560.1	14218.5	13363.3	10287.4
67.5°	27329.5	27284.3	27608.4	29847.5	32275.3	32068.1	27369.3	18407.3	11384.4	8661.8	5466.4
70°	27446.3	27534.0	28463.7	32243.4	34708.3	34379.0	27220.6	14962.3	7097.3	3984.3	2154.2
71°	26033.2	26622.9	27908.5	32169.0	34851.8	34424.1	25966.8	12531.9	5206.1	2778.4	1553.9
72.5°	22184.4	22495.2	25273.6	30275.2	33717.6	32803.9	22787.4	8784.0	3333.5	1700.0	892.5
75°	12218.4	12983.4	16925.2	23751.6	26968.2	26166.1	14850.7	4172.9	1662.8	929.7	369.2
77.5°	5817.0	5668.3	8258.1	14125.6	18285.2	18242.7	7482.5	1854.0	969.5	629.5	185.9
80°	1662.8	1870.0	3160.9	6714.8	10151.9	10263.5	2874.0	895.1	672.0	491.4	95.6
82.5°	502.0	512.6	1160.8	2969.6	5049.4	4759.9	1078.4	456.9	483.4	390.5	55.8
85°	87.7	108.9	342.6	1046.5	1925.7	1460.9	270.9	217.8	318.7	257.6	31.9
87.5°	5.3	8.0	114.2	119.5	170.0	98.3	47.8	31.9	69.1	69.1	18.6
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°	5564.7	5564.7	5564.7	5564.7	5564.7	5564.7	5564.7	5564.7	5564.7	5564.7	5564.7
2.5°	5583.3	5599.2	5588.6	5564.7	5524.9	5477.0	5413.3	5360.2	5315.0	5291.1	5320.3
5°	5617.8	5639.1	5586.0	5466.4	5285.8	5089.2	4866.1	4693.5	4558.0	4515.5	4499.6
7.5°	5671.0	5684.2	5540.8	5275.2	4892.7	4427.9	4021.5	3678.8	3413.2	3333.5	3216.6
10°	5740.0	5732.0	5461.1	4967.1	4295.0	3596.5	2967.0	2499.5	2146.2	2018.7	2008.1
12.5°	5846.3	5803.8	5360.2	4547.4	3583.2	2669.5	1891.2	1479.5	1256.4	1182.0	1166.1
15°	5979.1	5878.1	5200.8	4056.0	2743.8	1723.9	1166.1	1041.2	1012.0	1006.7	1001.4
17.5°	6135.8	5976.4	4991.0	3453.0	1928.4	1118.3	974.8	972.2	974.8	969.5	966.9
20°	6348.3	6080.0	4741.3	2738.5	1275.0	942.9	929.7	929.7	932.3	929.7	929.7
22.5°	6574.1	6202.2	4433.2	2090.4	961.5	895.1	892.5	897.8	903.1	900.4	900.4
25°	6853.0	6361.6	4026.8	1431.7	860.6	855.3	857.9	868.6	879.2	881.9	879.2
27.5°	7256.7	6558.1	3591.2	985.4	788.9	794.2	820.8	847.3	863.3	865.9	865.9
30°	7710.9	6775.9	3022.7	799.5	730.5	730.5	762.3	812.8	847.3	852.6	855.3
32.5°	8295.3	7028.3	2393.2	719.8	674.7	669.4	698.6	759.7	823.4	842.0	842.0
35°	9017.7	7325.8	1779.6	669.4	634.8	621.5	637.5	688.0	770.3	823.4	828.7
37.5°	9865.1	7607.3	1301.5	624.2	597.6	579.0	589.7	629.5	695.9	775.6	796.9
40°	10648.6	7857.0	972.2	587.0	560.5	547.2	555.1	573.7	629.5	703.9	717.2
42.5°	11503.9	8050.9	772.9	547.2	523.3	518.0	518.0	525.9	563.1	605.6	608.3
45°	12356.6	8120.0	648.1	499.4	483.4	488.7	486.1	480.8	496.7	491.4	491.4
47.5°	12964.8	8037.6	536.5	454.2	454.2	462.2	448.9	430.3	422.3	390.5	393.1
50°	13381.8	7737.5	440.9	401.1	422.3	433.0	406.4	377.2	348.0	313.4	305.5
52.5°	13554.5	7203.6	361.2	332.0	374.5	387.8	355.9	321.4	276.2	247.0	239.1
55°	13442.9	6544.8	300.1	270.9	316.1	332.0	300.1	260.3	209.8	178.0	172.7
57.5°	12951.5	5758.6	255.0	215.2	252.3	263.0	241.7	199.2	148.7	116.9	116.9
60°	12101.6	4945.8	207.2	170.0	188.6	204.5	183.3	143.4	100.9	71.7	66.4
62.5°	10377.7	4016.1	167.3	132.8	132.8	146.1	127.5	103.6	63.7	37.2	34.5
65°	7493.1	2754.5	132.8	98.3	95.6	95.6	79.7	69.1	37.2	15.9	10.6
67.5°	4071.9	1553.9	106.2	74.4	66.4	63.7	50.5	39.8	15.9	2.7	0.0
70°	1601.7	597.6	82.3	50.5	42.5	39.8	26.6	18.6	10.6	0.0	0.0
71°	1086.4	411.7	71.7	42.5	34.5	29.2	21.2	15.9	8.0	0.0	0.0
72.5°	621.5	255.0	55.8	31.9	26.6	21.2	15.9	10.6	8.0	0.0	0.0
75°	270.9	130.2	34.5	23.9	18.6	13.3	10.6	8.0	2.7	0.0	0.0
77.5°	138.1	71.7	23.9	18.6	10.6	8.0	5.3	2.7	0.0	0.0	0.0
80°	77.0	37.2	15.9	10.6	8.0	5.3	2.7	2.7	0.0	0.0	0.0
82.5°	42.5	21.2	8.0	5.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.6	13.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.3	5.3	0.0	0.0	0.0	0.0	2.7	2.7	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)