

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: P455130

Luminaire Tested: **GALN-SA6B-740-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455130
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-740-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27755 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

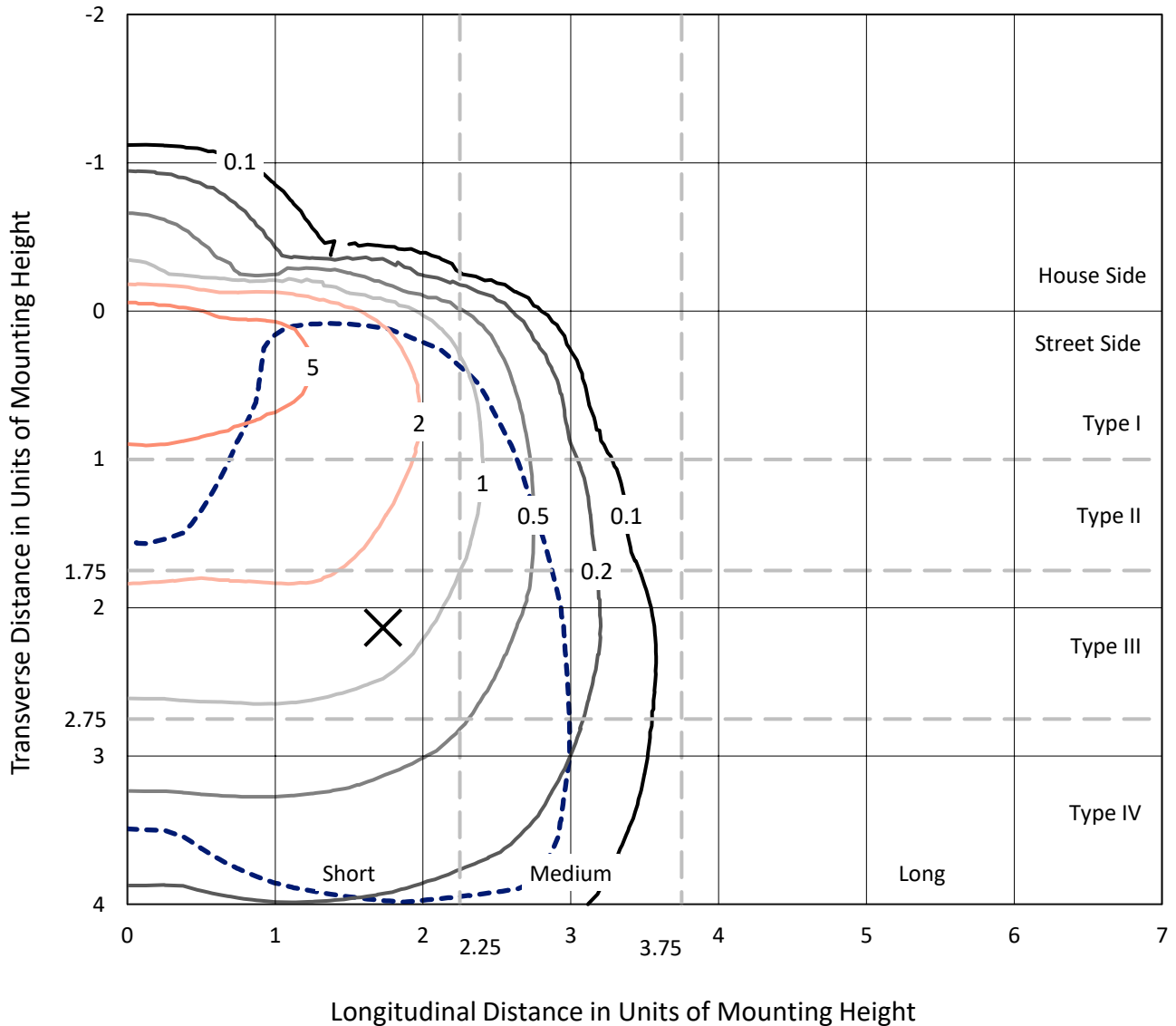
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

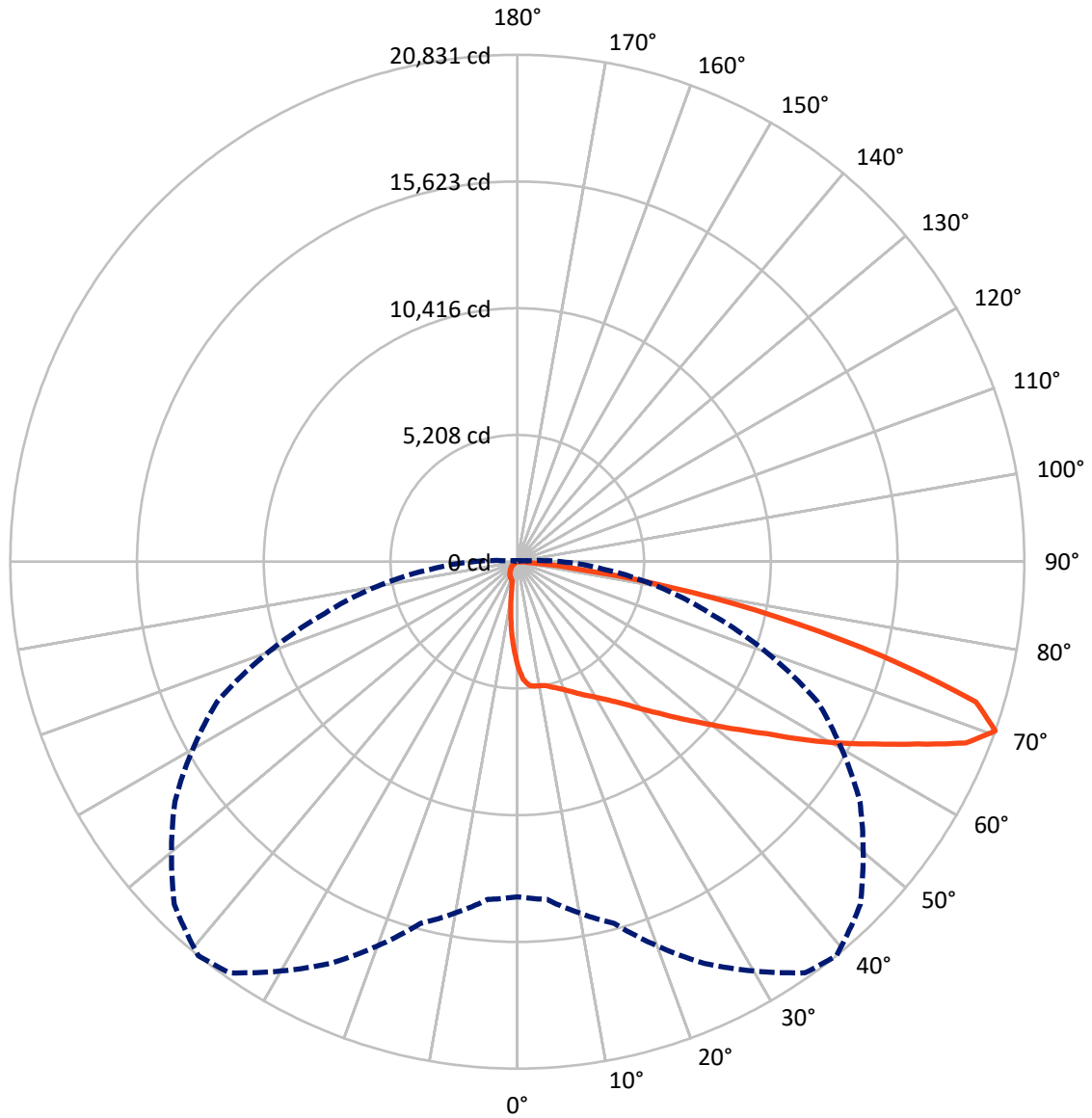
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1809.8	0.0	1809.8
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	25945.2	0.0	25945.2
	% Fixture	93.5	0.0	93.5
Total	Lumens	27755.0	0.0	27755.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.4	1.3
10°-20°	959.9	3.5
20°-30°	1608.1	5.8
30°-40°	2494.0	9.0
40°-50°	3952.2	14.2
50°-60°	5793.4	20.9
60°-70°	7425.7	26.8
70°-80°	4666.1	16.8
80°-90°	486.1	1.8
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°	27755.0	100.0
0°-180°	27755.0	100.0



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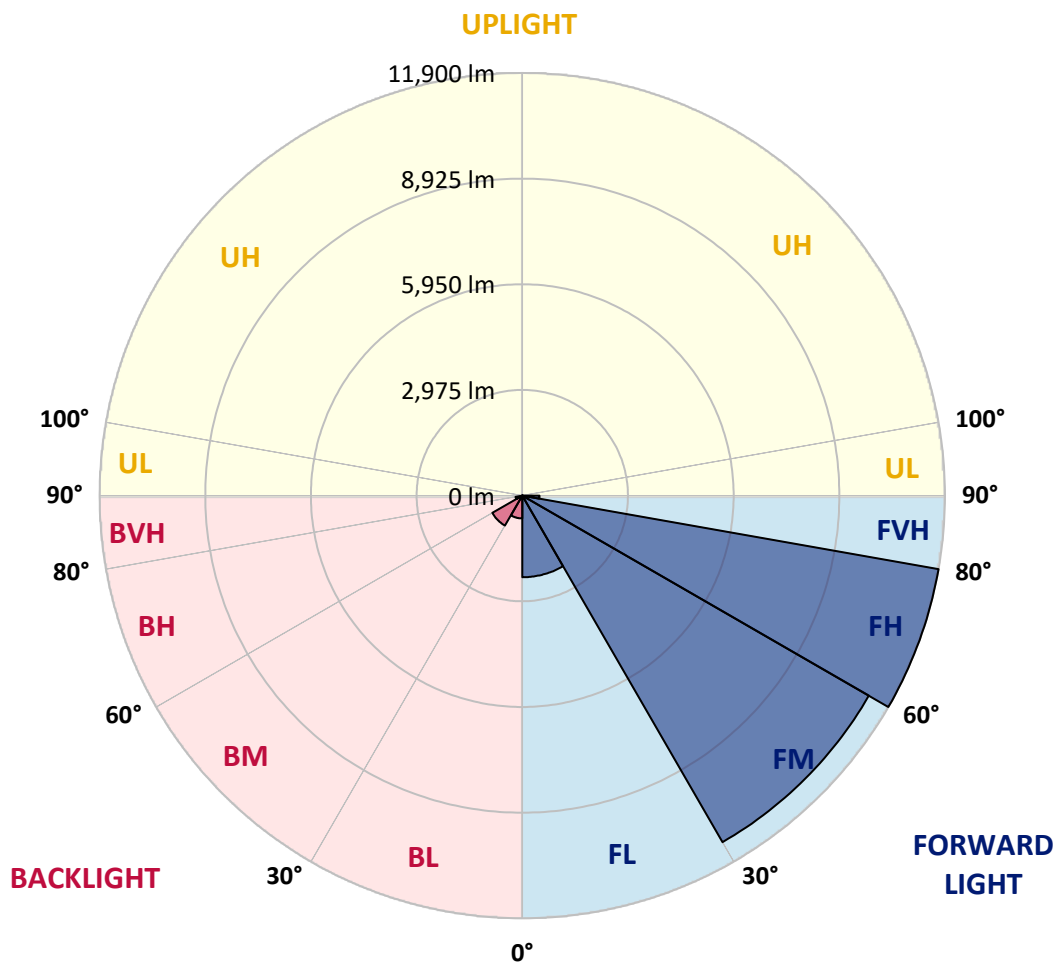
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2296.6	8.3			
FM	(30°-60°)	11265.7	40.6			
FH	(60°-80°)	11900.4	42.9			G4/12000
FVH	(80°-90°)	482.5	1.7			G3/500
BL	(0°-30°)	640.8	2.3	B2/1000		
BM	(30°-60°)	974.0	3.5	B1/1000		
BH	(60°-80°)	191.4	0.7	B1/500		G1/500
BVH	(80°-90°)	3.6	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4330.7	4330.7	4330.7	4330.7	4330.7	4330.7	4330.7	4330.7	4330.7	4330.7	4330.7
2.5°	5004.0	4987.2	4964.9	4938.8	4864.1	4851.1	4806.3	4711.2	4597.4	4504.2	4375.5
5°	5240.9	5250.2	5233.4	5186.8	5132.7	5101.0	5045.1	4897.7	4750.4	4562.0	4351.2
7.5°	5295.0	5313.6	5293.1	5248.4	5196.1	5162.6	5117.8	4991.0	4819.4	4604.9	4315.8
10°	5289.4	5311.8	5298.7	5257.7	5214.8	5183.1	5134.6	5033.9	4895.9	4670.2	4327.0
12.5°	5280.1	5309.9	5308.0	5287.5	5252.1	5227.8	5198.0	5108.5	4979.8	4765.3	4388.5
15°	5254.0	5291.3	5324.8	5341.6	5343.5	5343.5	5306.2	5211.1	5088.0	4890.3	4468.7
17.5°	5265.1	5308.0	5392.0	5440.5	5474.0	5470.3	5431.1	5328.6	5192.4	5018.9	4552.7
20°	5334.1	5392.0	5509.5	5606.5	5640.0	5628.8	5576.6	5457.2	5302.4	5129.0	4634.7
22.5°	5503.9	5556.1	5703.4	5817.2	5841.5	5811.6	5737.0	5574.7	5434.9	5248.4	4733.6
25°	5757.5	5819.1	5955.2	6041.0	6041.0	6024.2	5919.8	5729.5	5584.1	5414.3	4862.3
27.5°	6065.3	6117.5	6251.8	6328.2	6283.5	6235.0	6130.5	5901.1	5761.3	5623.2	5017.1
30°	6376.7	6410.3	6552.1	6585.6	6539.0	6477.4	6365.5	6136.1	6013.0	5906.7	5240.9
32.5°	6671.4	6744.2	6861.7	6854.2	6790.8	6760.9	6658.4	6414.0	6345.0	6333.8	5554.2
35°	6966.1	7022.1	7126.5	7152.6	7096.7	7091.1	7016.5	6835.5	6837.4	6910.1	6042.9
37.5°	7219.8	7270.1	7393.2	7451.0	7462.2	7490.2	7460.3	7341.0	7510.7	7710.3	6690.1
40°	7432.4	7503.2	7659.9	7760.6	7876.3	7978.8	7984.4	8010.5	8351.9	8695.0	7535.0
42.5°	7598.4	7697.2	7924.8	8111.3	8376.1	8506.7	8611.1	8754.7	9329.2	9842.1	8530.9
45°	7814.7	7928.5	8212.0	8504.8	8918.8	9133.3	9278.8	9663.0	10478.1	11177.5	9553.0
47.5°	8172.8	8232.5	8521.6	8948.7	9493.3	9799.2	10082.7	10664.6	11710.9	12337.6	10403.5
50°	8633.5	8672.7	8890.9	9484.0	10189.0	10591.8	11108.5	11792.9	12990.3	13299.9	10884.6
52.5°	9142.7	9155.7	9319.8	10073.3	10968.6	11475.9	12054.1	12898.9	14032.9	13986.3	11203.6
55°	9733.9	9715.2	9855.1	10713.1	11891.8	12471.8	13145.1	14031.0	14937.5	14473.1	11386.4
57.5°	10410.9	10360.6	10496.7	11561.7	13074.3	13768.1	14452.6	15008.4	15638.8	14881.5	11474.0
60°	11119.6	11018.9	11181.2	12514.7	14467.5	15125.9	15694.7	15843.9	16377.3	15206.1	11322.9
62.5°	11684.8	11686.6	11988.8	13529.3	15899.9	16476.2	16778.3	16912.6	17013.3	15135.2	10528.4
65°	12567.0	12596.8	13079.9	14937.5	17557.9	18057.8	18264.8	17828.4	17041.3	14254.9	9334.8
67.5°	13477.1	13572.2	14456.3	16877.2	19473.4	19876.2	19609.5	18005.5	16280.3	12246.2	7078.0
70°	13773.7	13930.3	15387.0	18212.6	20622.3	20831.2	19928.5	17179.3	13609.5	8187.7	3562.3
72.5°	12621.0	12874.7	14851.7	17725.8	19889.3	19708.4	17830.2	14407.8	8652.1	3109.1	1087.3
75°	8900.2	9012.1	12343.1	14704.3	15996.9	15484.0	13562.9	9288.1	3558.6	872.9	373.0
77.5°	4595.6	4541.5	7341.0	9756.3	11408.7	10877.2	8881.5	4808.2	1348.5	363.7	231.3
80°	2376.1	2415.3	3176.2	5112.2	6964.2	6408.4	4735.5	2228.8	718.1	201.4	177.2
82.5°	1331.7	1249.6	1825.9	2232.5	3256.4	2553.3	1816.6	1577.9	313.3	121.2	167.9
85°	242.5	253.7	1001.6	1206.7	1130.2	718.1	585.6	1053.8	91.4	67.1	117.5
87.5°	3.7	3.7	194.0	346.9	220.1	100.7	184.6	151.1	18.7	26.1	20.5
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°	4330.7	4330.7	4330.7	4330.7	4330.7	4330.7	4330.7	4330.7	4330.7	4330.7	4330.7
2.5°	4310.2	4239.3	4106.9	3976.4	3810.4	3674.2	3582.8	3487.7	3390.7	3398.2	3420.6
5°	4235.6	4112.5	3851.4	3575.4	3310.5	3071.8	2836.8	2626.0	2540.2	2461.9	2465.6
7.5°	4161.0	3987.6	3605.2	3172.5	2771.5	2364.9	2070.2	1827.8	1699.1	1602.1	1574.1
10°	4127.4	3898.0	3379.5	2784.6	2215.7	1771.8	1393.2	1195.5	1042.6	994.1	1007.1
12.5°	4142.4	3853.3	3176.2	2433.9	1756.9	1234.7	969.8	869.1	835.6	830.0	826.2
15°	4170.3	3821.6	2976.7	2046.0	1290.6	917.6	815.0	796.4	792.7	788.9	790.8
17.5°	4207.6	3793.6	2764.1	1682.3	990.4	802.0	772.1	762.8	761.0	761.0	761.0
20°	4244.9	3761.9	2527.2	1357.8	826.2	757.2	738.6	733.0	731.1	731.1	729.2
22.5°	4287.8	3733.9	2286.6	1066.8	761.0	725.5	708.7	705.0	703.1	701.3	701.3
25°	4349.4	3698.5	2031.1	872.9	719.9	695.7	678.9	675.2	673.3	665.8	667.7
27.5°	4431.4	3672.4	1768.1	753.5	682.6	658.4	647.2	641.6	637.9	632.3	634.1
30°	4543.4	3650.0	1488.3	688.2	639.7	619.2	608.0	604.3	600.6	595.0	595.0
32.5°	4737.3	3659.3	1193.7	636.0	600.6	576.3	565.1	561.4	557.7	552.1	552.1
35°	5028.3	3713.4	954.9	591.2	553.9	529.7	518.5	518.5	512.9	505.4	503.6
37.5°	5503.9	3851.4	766.6	548.3	509.2	486.8	473.7	470.0	464.4	453.2	451.4
40°	6065.3	4065.9	645.3	505.4	468.1	445.8	434.6	423.4	408.5	397.3	395.4
42.5°	6770.3	4286.0	559.5	462.5	429.0	408.5	395.4	376.7	354.4	339.4	337.6
45°	7505.1	4487.4	501.7	423.4	391.7	374.9	360.0	330.1	302.1	283.5	281.6
47.5°	8053.4	4524.7	455.1	386.1	360.0	343.2	322.7	285.4	248.1	231.3	225.7
50°	8312.7	4343.8	406.6	348.8	328.3	309.6	283.5	240.6	199.6	179.0	175.3
52.5°	8404.1	4030.5	367.4	315.2	296.5	274.2	242.5	194.0	156.7	136.2	134.3
55°	8366.8	3635.1	332.0	283.5	259.2	233.1	201.4	154.8	115.6	98.8	95.1
57.5°	8170.9	3131.5	296.5	251.8	221.9	195.8	160.4	115.6	78.3	63.4	61.5
60°	7643.1	2445.1	261.1	216.4	188.4	160.4	126.8	82.1	48.5	35.4	35.4
62.5°	6751.6	1814.7	227.5	180.9	158.5	128.7	89.5	52.2	26.1	18.7	16.8
65°	5641.9	1339.1	190.2	152.9	132.4	100.7	63.4	31.7	13.1	5.6	3.7
67.5°	3937.2	826.2	158.5	125.0	108.2	72.7	39.2	13.1	5.6	0.0	0.0
70°	1788.6	393.5	121.2	95.1	82.1	52.2	20.5	7.5	3.7	0.0	0.0
72.5°	555.8	207.0	85.8	69.0	56.0	33.6	11.2	5.6	3.7	0.0	0.0
75°	257.4	132.4	54.1	37.3	31.7	16.8	7.5	3.7	1.9	0.0	0.0
77.5°	192.1	102.6	31.7	20.5	16.8	11.2	5.6	3.7	1.9	0.0	0.0
80°	167.9	52.2	18.7	13.1	9.3	7.5	3.7	1.9	0.0	0.0	0.0
82.5°	151.1	26.1	11.2	7.5	5.6	3.7	1.9	1.9	0.0	0.0	0.0
85°	82.1	14.9	7.5	5.6	3.7	1.9	1.9	0.0	0.0	0.0	0.0
87.5°	14.9	7.5	5.6	3.7	3.7	1.9	1.9	1.9	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)