

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: P455403

Luminaire Tested: **GALN-SA6C-750-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-750-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41342 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

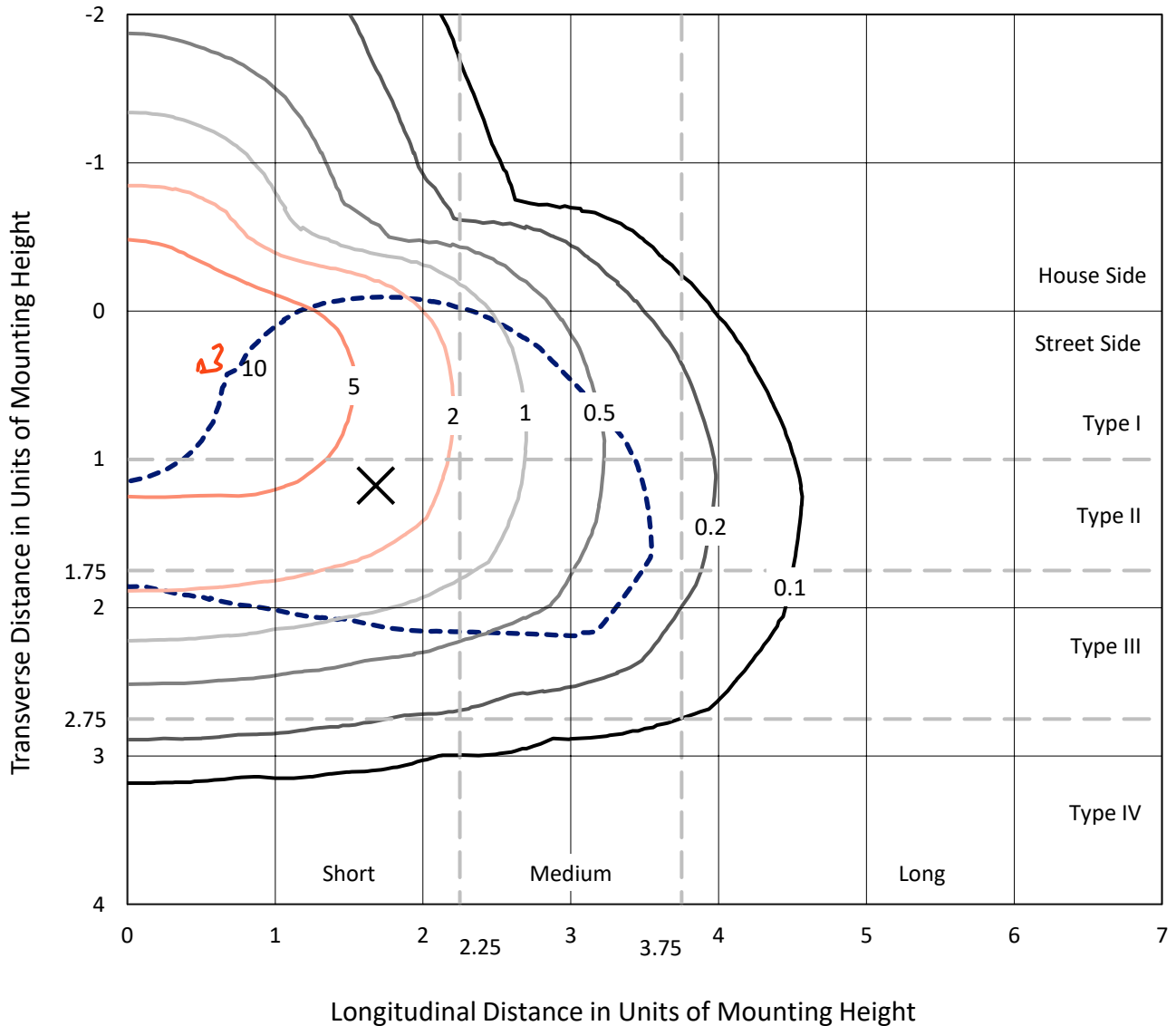
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

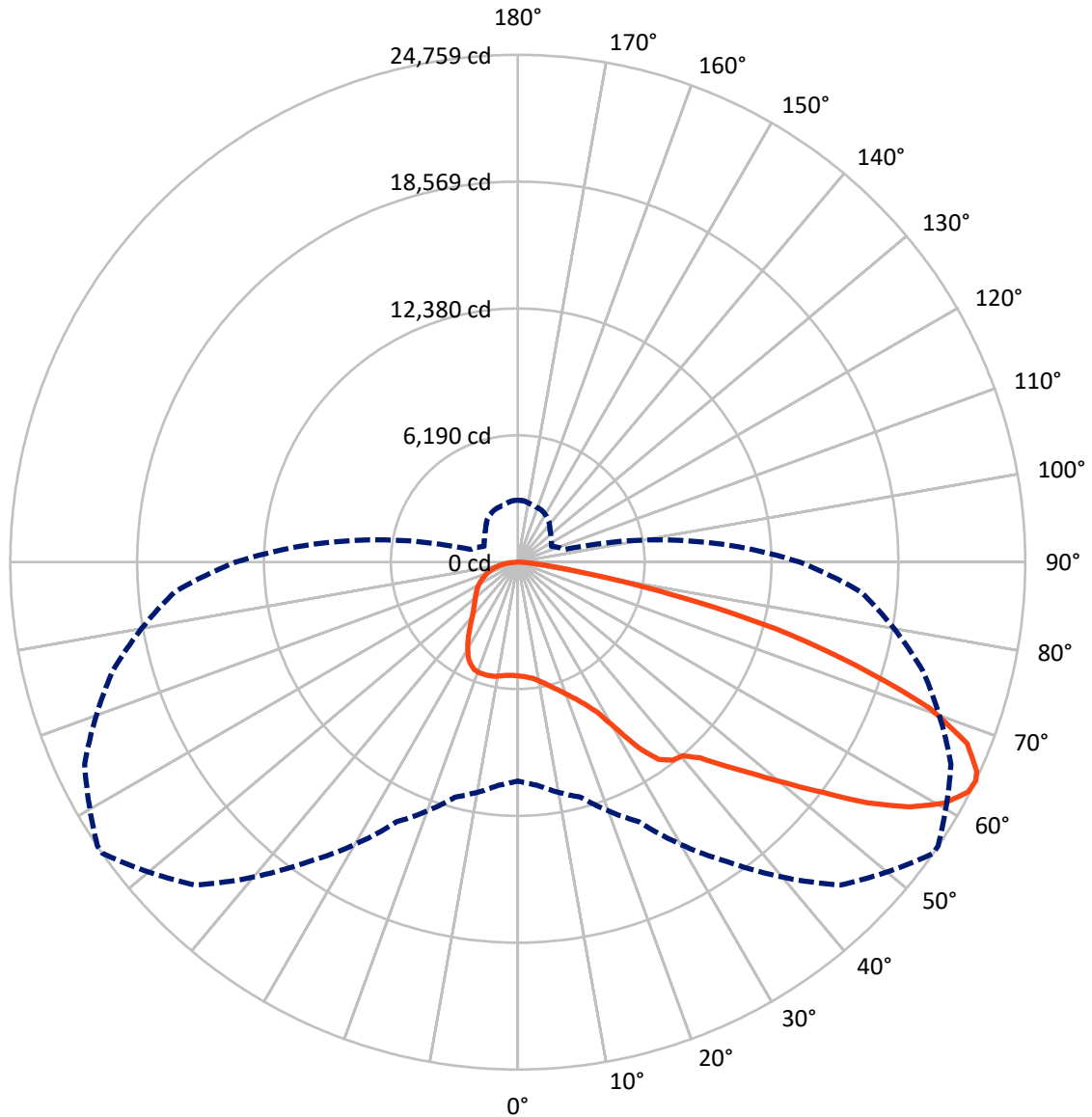
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10042.8	0.0	10042.8
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	31299.2	0.0	31299.2
	% Fixture	75.7	0.0	75.7
Total	Lumens	41342.0	0.0	41342.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	539.6	1.3
10°-20°	1702.5	4.1
20°-30°	3030.9	7.3
30°-40°	4663.3	11.3
40°-50°	6610.6	16.0
50°-60°	9568.7	23.1
60°-70°	9902.6	24.0
70°-80°	4637.4	11.2
80°-90°	686.5	1.7
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°	41342.0	100.0
0°-180°	41342.0	100.0

Coefficient of Utilization



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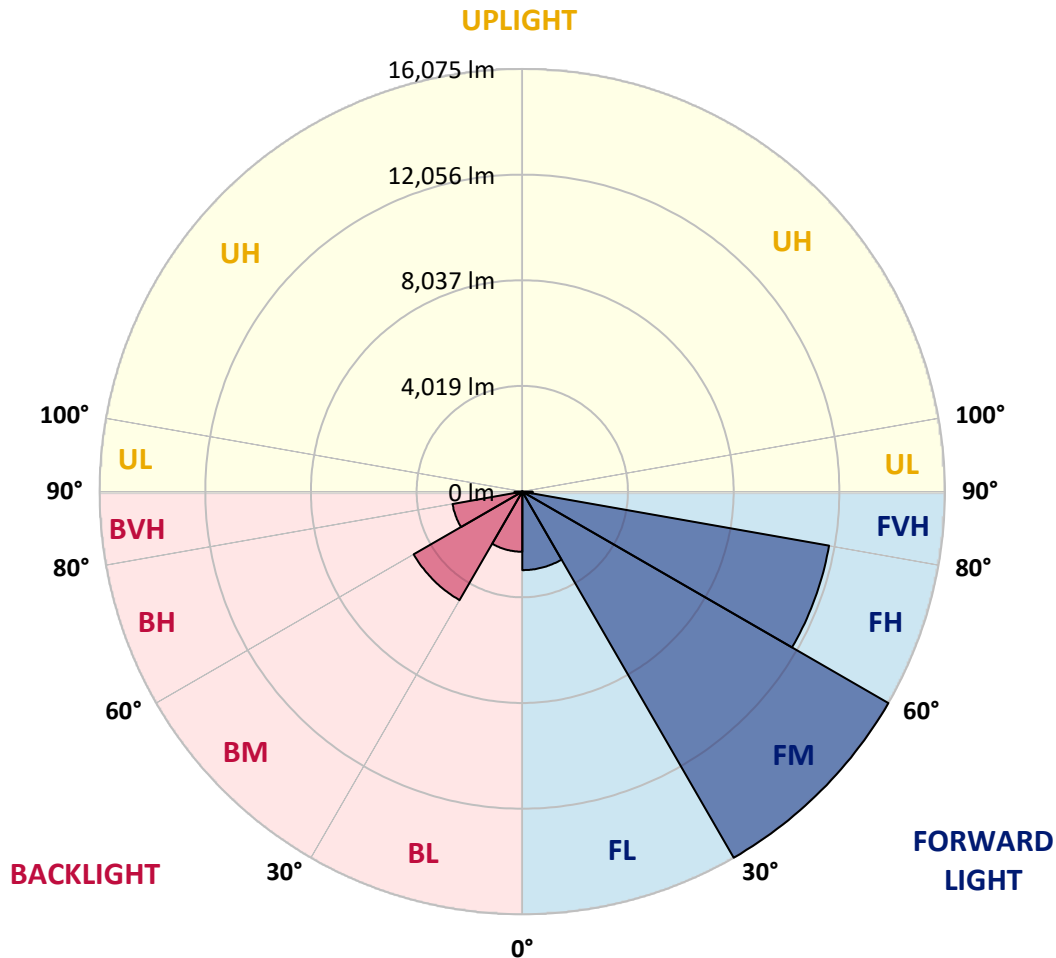
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2985.6	7.2			
FM	(30°-60°)	16074.9	38.9			
FH	(60°-80°)	11845.7	28.7			G4/12000
FVH	(80°-90°)	393.1	1.0			G3/500
BL	(0°-30°)	2287.4	5.5	B3/2500		
BM	(30°-60°)	4767.7	11.5	B3/5000		
BH	(60°-80°)	2694.3	6.5	B4/5000		G4/5000
BVH	(80°-90°)	293.4	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5546.8	5546.8	5546.8	5546.8	5546.8	5546.8	5546.8	5546.8	5546.8	5546.8	5546.8
2.5°	5609.1	5606.8	5613.7	5606.8	5611.4	5595.2	5588.3	5592.9	5586.0	5574.5	5553.8
5°	5678.2	5675.9	5678.2	5669.0	5673.6	5664.4	5648.2	5652.9	5641.3	5616.0	5586.0
7.5°	5795.7	5786.5	5786.5	5784.2	5775.0	5761.2	5749.6	5745.0	5733.5	5701.2	5655.2
10°	5947.8	5947.8	5950.1	5931.7	5943.2	5917.9	5906.3	5904.0	5864.9	5823.4	5758.9
12.5°	6148.3	6159.8	6152.9	6143.7	6139.1	6129.9	6090.7	6099.9	6056.1	5984.7	5906.3
15°	6397.2	6415.6	6404.1	6399.5	6388.0	6353.4	6337.3	6330.4	6272.8	6169.1	6065.4
17.5°	6726.7	6703.7	6694.5	6683.0	6634.6	6609.2	6581.6	6576.9	6526.2	6404.1	6242.8
20°	7014.8	7047.1	7028.6	7017.1	6968.7	6920.3	6899.6	6892.7	6848.9	6715.2	6457.1
22.5°	7358.2	7365.1	7372.0	7344.3	7321.3	7284.4	7247.5	7236.0	7219.9	7081.6	6765.9
25°	7724.6	7752.2	7729.2	7701.5	7673.9	7671.6	7706.1	7701.5	7694.6	7561.0	7176.1
27.5°	8321.4	8346.8	8353.7	8323.7	8217.7	8226.9	8305.3	8330.6	8436.6	8215.4	7703.8
30°	8657.9	8683.2	8740.8	8853.8	9022.0	9169.5	9358.4	9416.0	9517.4	9100.3	8330.6
32.5°	8865.3	8874.5	8978.2	9187.9	9692.6	10243.3	10757.2	10778.0	10842.5	10257.2	8904.5
35°	9192.5	9199.4	9282.4	9512.8	10105.1	11022.3	11817.3	11842.6	11789.6	10616.7	9171.8
37.5°	9595.8	9614.2	9667.2	9858.5	10566.0	11674.4	12257.5	12239.0	11768.9	10902.4	9644.2
40°	10183.4	10183.4	10121.2	10379.3	11052.2	12047.7	12411.9	12379.6	12255.1	11729.7	10363.2
42.5°	10701.9	10692.7	10840.2	11015.3	11660.6	12623.9	13059.4	13112.4	13317.5	12769.0	11181.3
45°	11377.1	11418.6	11501.6	11819.6	12695.3	13607.9	14170.2	14220.9	14511.2	13992.7	12137.6
47.5°	12059.3	12073.1	12333.5	12757.5	13976.6	14942.2	15403.0	15486.0	15751.0	15423.8	13167.7
50°	12543.2	12674.6	13091.7	13760.0	15297.0	16569.1	16928.6	17027.7	17495.5	16981.6	14368.3
52.5°	13054.8	13183.8	13693.1	14711.7	16813.4	18232.9	18675.4	18742.2	19228.5	18557.9	15596.6
55°	13492.6	13612.5	14190.9	15555.1	18020.9	19931.3	20733.3	20654.9	20887.7	19772.3	16543.8
57.5°	13564.1	13660.9	14389.1	16094.4	18928.9	21387.7	22537.7	22583.8	22314.1	20680.3	17325.0
60°	13011.0	13209.2	14045.7	16036.8	19336.8	22401.7	23883.5	23915.7	23150.7	21145.8	17636.1
62.5°	12031.6	12010.9	13022.5	15110.4	18765.3	22632.2	24676.2	24641.7	23477.9	20922.2	17334.2
64°	10678.9	10927.8	11872.6	13972.0	17843.5	22277.3	24759.2	24740.7	23321.2	20456.7	16820.3
65°	9853.9	9840.1	10773.4	13041.0	16926.3	21742.6	24611.7	24586.3	22994.0	20039.6	16421.6
67.5°	7113.9	7146.1	8067.9	10063.6	13760.0	19652.5	23650.7	23556.2	21703.5	18657.0	14905.3
70°	4309.4	4327.8	5051.4	6676.0	9876.9	15887.0	21318.6	21323.2	19728.5	16592.2	12686.1
72.5°	2269.9	2318.3	2608.7	3790.8	5998.5	11146.7	17295.0	17705.2	16937.8	14160.9	10022.1
75°	1262.8	1269.8	1474.9	1868.9	3060.3	6238.2	12999.5	13117.0	13409.7	11397.9	7411.2
77.5°	963.3	977.1	1041.6	1207.5	1666.1	2892.1	7867.4	8457.4	9450.6	8035.7	4228.7
80°	781.2	795.0	850.3	949.4	1108.4	1371.2	3654.9	3972.9	5058.3	3567.3	1650.0
82.5°	608.4	599.2	670.6	735.1	806.6	811.2	1500.2	1659.2	2060.2	1534.8	714.4
85°	451.7	451.7	509.3	495.5	520.8	474.7	661.4	730.5	825.0	652.2	331.8
87.5°	179.7	198.2	334.1	299.6	232.8	186.7	244.3	258.1	285.8	255.8	138.3
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°	5546.8	5546.8	5546.8	5546.8	5546.8	5546.8	5546.8	5546.8	5546.8	5546.8	5546.8
2.5°	5556.1	5563.0	5546.8	5535.3	5530.7	5523.8	5516.9	5519.2	5528.4	5537.6	5535.3
5°	5583.7	5586.0	5558.4	5544.5	5535.3	5526.1	5526.1	5533.0	5551.5	5565.3	5565.3
7.5°	5652.9	5652.9	5613.7	5588.3	5574.5	5558.4	5553.8	5556.1	5569.9	5588.3	5590.6
10°	5761.2	5751.9	5701.2	5662.1	5636.7	5597.5	5563.0	5544.5	5551.5	5563.0	5563.0
12.5°	5892.5	5867.2	5802.6	5749.6	5687.4	5613.7	5542.2	5505.4	5503.1	5514.6	5510.0
15°	6033.1	6005.4	5915.6	5818.8	5710.5	5602.2	5516.9	5463.9	5422.4	5410.9	5436.2
17.5°	6196.7	6139.1	6014.7	5881.0	5719.7	5579.1	5445.5	5337.1	5263.4	5242.7	5249.6
20°	6394.9	6318.8	6150.6	5940.9	5712.8	5496.2	5288.7	5143.6	5023.7	4986.9	4991.5
22.5°	6669.1	6537.8	6291.2	5970.9	5655.2	5339.4	5051.4	4862.4	4717.2	4659.6	4694.2
25°	6980.2	6837.3	6424.8	5964.0	5505.4	5088.3	4770.2	4523.7	4392.3	4307.0	4325.5
27.5°	7408.9	7155.4	6567.7	5901.7	5291.1	4781.8	4413.1	4180.3	4060.5	4016.7	4037.4
30°	7957.3	7567.9	6722.1	5733.5	4952.3	4394.6	4053.6	3901.5	3830.0	3774.7	3793.2
32.5°	8353.7	7858.2	6756.7	5450.1	4585.9	4042.0	3809.3	3696.4	3618.0	3565.0	3576.5
35°	8637.1	8104.8	6740.6	5102.1	4203.3	3751.7	3615.7	3523.5	3396.8	3281.6	3260.8
37.5°	9017.4	8413.6	6623.0	4721.8	3825.4	3555.8	3459.0	3288.5	3106.4	2952.0	2945.1
40°	9600.4	8775.4	6371.8	4274.8	3502.8	3410.6	3293.1	3071.9	2876.0	2751.5	2742.3
42.5°	10201.9	9109.6	6030.8	3804.7	3237.8	3258.5	3115.6	2896.7	2776.9	2696.2	2687.0
45°	10937.0	9471.4	5662.1	3396.8	3041.9	3115.6	2961.2	2834.5	2763.1	2710.1	2696.2
47.5°	11732.0	9842.4	5247.3	3030.4	2876.0	2984.3	2896.7	2839.1	2799.9	2763.1	2746.9
50°	12589.3	10257.2	4857.8	2735.4	2726.2	2848.3	2889.8	2869.1	2846.0	2834.5	2820.7
52.5°	13529.5	10681.2	4530.6	2528.0	2594.8	2751.5	2892.1	2908.2	2908.2	2901.3	2892.1
55°	14165.5	10976.2	4198.7	2359.8	2461.2	2673.2	2887.5	2949.7	2972.8	2963.5	2954.3
57.5°	14635.7	11137.5	3781.6	2214.6	2348.3	2597.1	2862.1	2954.3	2977.4	2988.9	2984.3
60°	14732.4	10987.7	3235.5	2062.5	2226.1	2486.5	2770.0	2885.2	2915.1	2986.6	2993.5
62.5°	14296.9	10526.8	2691.6	1912.7	2076.3	2318.3	2645.5	2806.8	2866.8	2977.4	2988.9
64°	13762.3	10010.6	2389.7	1818.2	1979.5	2223.8	2583.3	2786.1	2864.5	3011.9	3021.2
65°	13370.5	9635.0	2200.8	1758.3	1917.3	2161.6	2548.7	2793.0	2885.2	3064.9	3078.8
67.5°	11927.9	8342.2	1820.5	1617.7	1769.8	2055.6	2555.7	2850.6	2880.6	3085.7	3083.4
70°	9870.0	6641.5	1525.6	1488.7	1627.0	1970.3	2528.0	2758.4	2760.7	2896.7	2864.5
72.5°	7390.4	4908.5	1322.8	1355.0	1467.9	1767.5	2387.4	2634.0	2594.8	2613.3	2581.0
75°	5076.7	3247.0	1138.4	1212.1	1302.0	1562.4	2189.2	2392.0	2329.8	2306.8	2283.7
77.5°	2710.1	1795.2	947.1	1071.6	1131.5	1350.4	1910.4	2106.3	2041.8	1951.9	1921.9
80°	1096.9	845.7	762.8	887.2	921.8	1087.7	1590.1	1712.2	1663.8	1507.1	1456.4
82.5°	550.8	507.0	599.2	698.3	700.6	776.6	1182.2	1297.4	1189.1	997.8	954.0
85°	288.1	297.3	412.5	490.9	433.2	419.4	709.8	785.8	721.3	626.8	564.6
87.5°	103.7	119.8	216.6	214.3	152.1	80.7	156.7	76.0	41.5	25.3	32.3
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)