

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: P455548

Luminaire Tested: **GALN-SA6D-727-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455548
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-SA6D-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38044 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

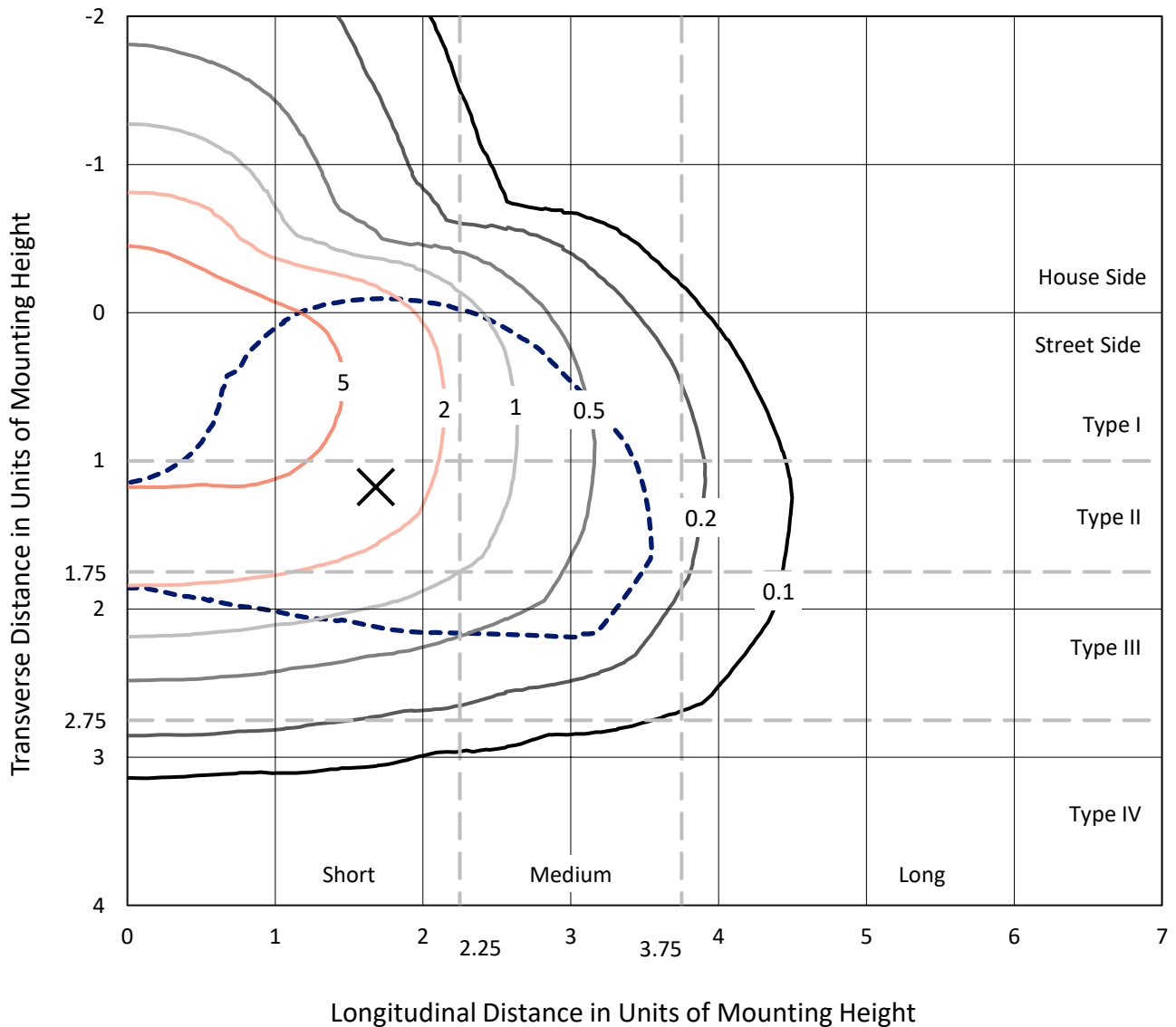
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

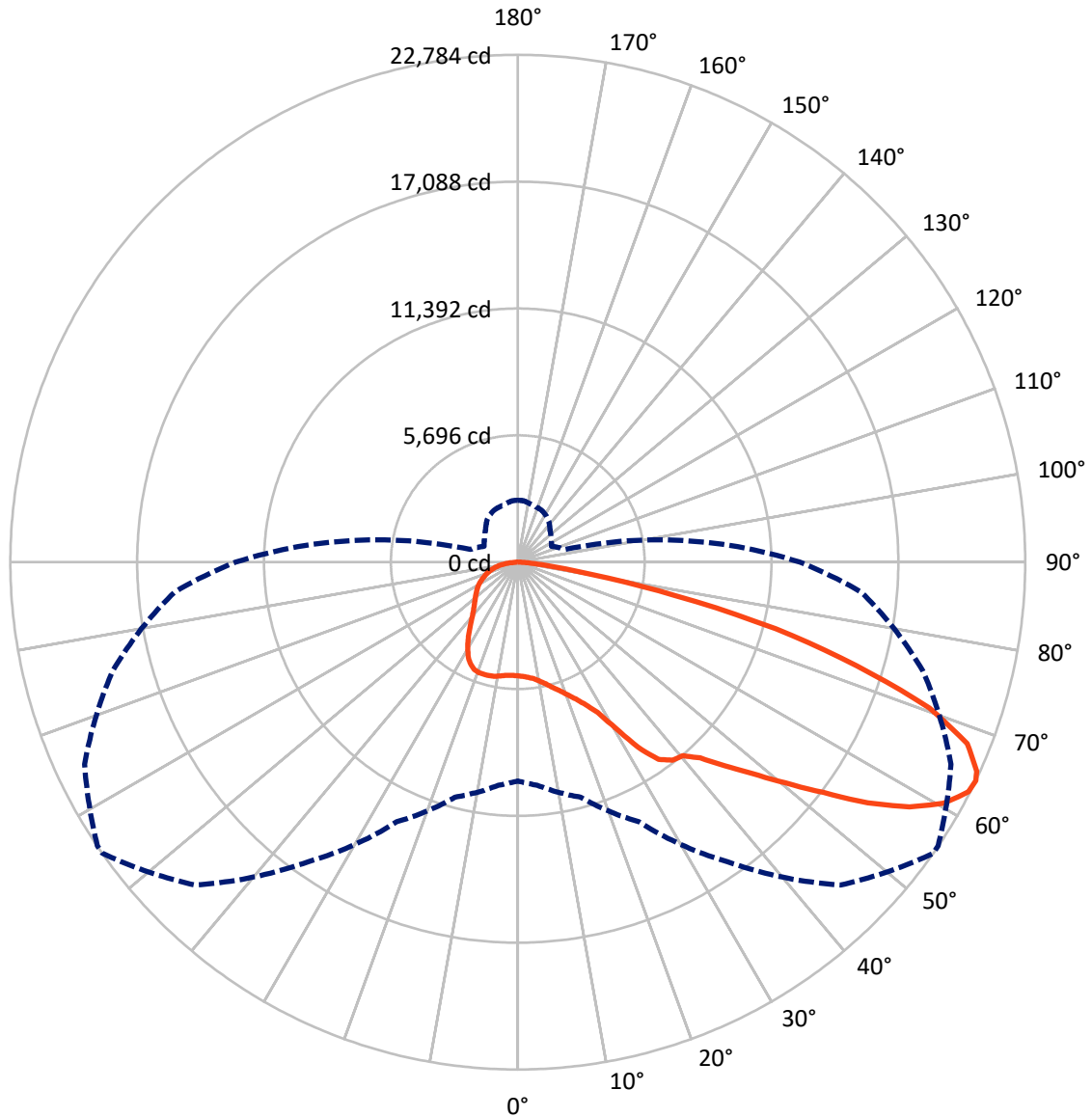
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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	9241.6	0.0	9241.6
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	28802.4	0.0	28802.4
	% Fixture	75.7	0.0	75.7
Total	Lumens	38044.0	0.0	38044.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.5	1.3
10°-20°	1566.7	4.1
20°-30°	2789.1	7.3
30°-40°	4291.3	11.3
40°-50°	6083.3	16.0
50°-60°	8805.4	23.1
60°-70°	9112.6	24.0
70°-80°	4267.5	11.2
80°-90°	631.7	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°	38044.0	100.0
0°-180°	38044.0	100.0



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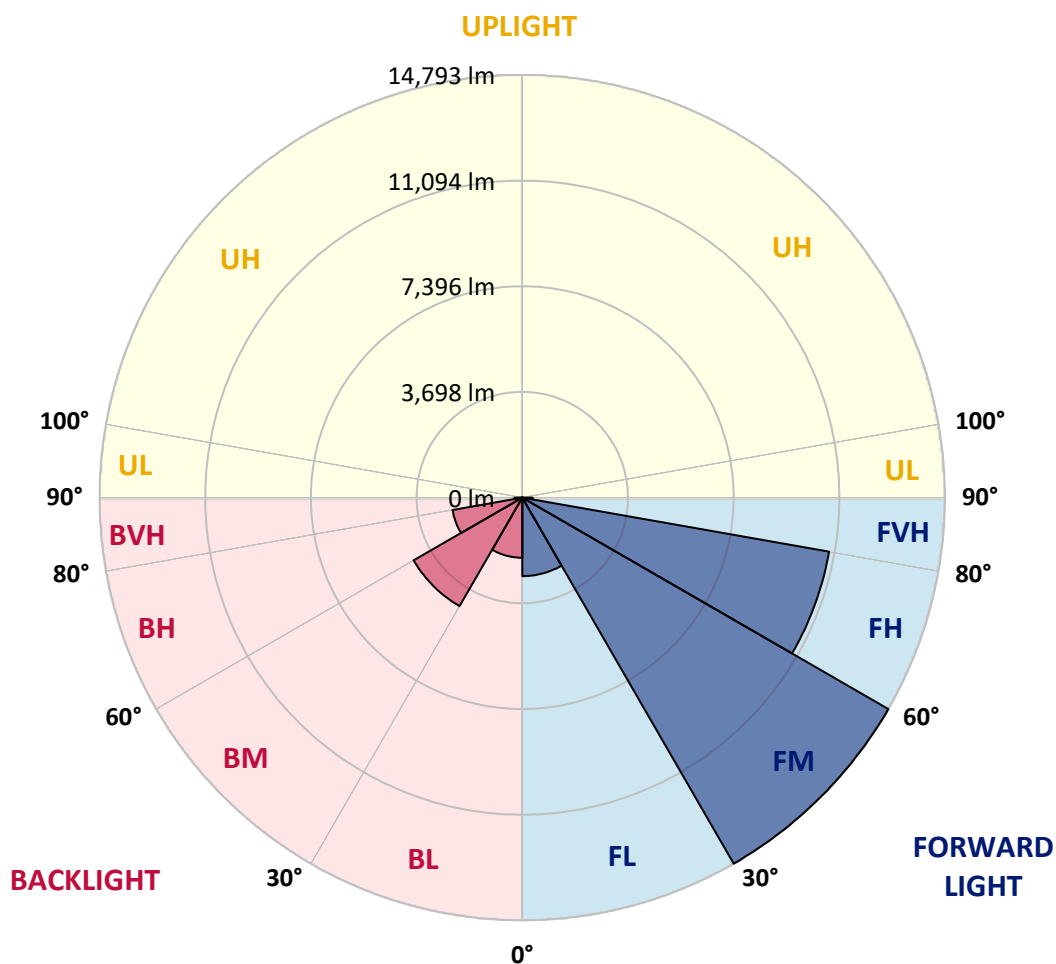
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2747.4	7.2			
FM	(30°-60°)	14792.5	38.9			
FH	(60°-80°)	10900.7	28.7			G4/12000
FVH	(80°-90°)	361.7	1.0			G3/500
BL	(0°-30°)	2104.9	5.5	B3/2500		
BM	(30°-60°)	4387.4	11.5	B3/5000		
BH	(60°-80°)	2479.4	6.5	B3/2500		G3/2500
BVH	(80°-90°)	270.0	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5104.4	5104.4	5104.4	5104.4	5104.4	5104.4	5104.4	5104.4	5104.4	5104.4	5104.4
2.5°	5161.6	5159.5	5165.9	5159.5	5163.7	5148.9	5142.5	5146.8	5140.4	5129.8	5110.7
5°	5225.2	5223.1	5225.2	5216.7	5221.0	5212.5	5197.7	5201.9	5191.3	5168.0	5140.4
7.5°	5333.4	5324.9	5324.9	5322.8	5314.3	5301.6	5291.0	5286.7	5276.1	5246.4	5204.0
10°	5473.3	5473.3	5475.5	5458.5	5469.1	5445.8	5435.2	5433.1	5397.0	5358.8	5299.5
12.5°	5657.8	5668.4	5662.1	5653.6	5649.4	5640.9	5604.8	5613.3	5573.0	5507.3	5435.2
15°	5886.9	5903.8	5893.2	5889.0	5878.4	5846.6	5831.7	5825.4	5772.4	5676.9	5581.5
17.5°	6190.1	6168.9	6160.4	6149.8	6105.3	6082.0	6056.5	6052.3	6005.6	5893.2	5744.8
20°	6455.2	6484.9	6467.9	6457.3	6412.8	6368.3	6349.2	6342.8	6302.5	6179.5	5942.0
22.5°	6771.2	6777.5	6783.9	6758.4	6737.2	6703.3	6669.4	6658.8	6643.9	6516.7	6226.2
25°	7108.4	7133.8	7112.6	7087.1	7061.7	7059.6	7091.4	7087.1	7080.8	6957.8	6603.6
27.5°	7657.6	7680.9	7687.3	7659.7	7562.2	7570.6	7642.8	7666.1	7763.6	7560.0	7089.3
30°	7967.2	7990.5	8043.5	8147.5	8302.3	8438.0	8611.9	8664.9	8758.2	8374.4	7666.1
32.5°	8158.1	8166.5	8262.0	8455.0	8919.4	9426.2	9899.1	9918.2	9977.6	9438.9	8194.1
35°	8459.2	8465.6	8541.9	8754.0	9299.0	10143.0	10874.6	10897.9	10849.1	9769.7	8440.1
37.5°	8830.3	8847.3	8896.0	9072.1	9723.1	10743.1	11279.6	11262.7	10830.1	10032.7	8874.8
40°	9371.1	9371.1	9313.8	9551.3	10170.5	11086.7	11421.7	11392.0	11277.5	10794.0	9536.5
42.5°	9848.2	9839.7	9975.4	10136.6	10730.4	11616.8	12017.6	12066.4	12255.1	11750.4	10289.3
45°	10469.6	10507.7	10584.1	10876.7	11682.6	12522.3	13039.8	13086.4	13353.6	12876.5	11169.4
47.5°	11097.3	11110.0	11349.6	11739.8	12861.6	13750.2	14174.3	14250.6	14494.5	14193.4	12117.3
50°	11542.6	11663.5	12047.3	12662.3	14076.7	15247.3	15578.1	15669.3	16099.8	15626.9	13222.1
52.5°	12013.4	12132.1	12600.8	13538.1	15472.1	16778.4	17185.6	17247.1	17694.5	17077.4	14352.4
55°	12416.3	12526.6	13058.8	14314.3	16583.3	18341.3	19079.3	19007.2	19221.4	18195.0	15224.0
57.5°	12482.0	12571.1	13241.2	14810.5	17418.9	19681.6	20739.8	20782.2	20534.1	19030.5	15942.9
60°	11973.1	12155.5	12925.2	14757.5	17794.2	20614.6	21978.2	22007.9	21303.8	19458.9	16229.2
62.5°	11071.8	11052.7	11983.7	13905.0	17268.3	20826.7	22707.7	22675.9	21605.0	19253.2	15951.4
64°	9827.0	10056.0	10925.5	12857.4	16420.0	20500.1	22784.0	22767.1	21460.8	18824.8	15478.5
65°	9067.8	9055.1	9913.9	12000.6	15576.0	20008.1	22648.3	22625.0	21159.6	18441.0	15111.6
67.5°	6546.4	6576.1	7424.3	9260.8	12662.3	18084.7	21764.0	21677.1	19972.1	17168.6	13716.2
70°	3965.6	3982.5	4648.4	6143.5	9089.0	14619.6	19617.9	19622.2	18154.7	15268.5	11674.1
72.5°	2088.8	2133.4	2400.6	3488.4	5520.0	10257.5	15915.3	16292.8	15586.6	13031.3	9222.6
75°	1162.1	1168.5	1357.2	1719.8	2816.2	5740.5	11962.5	12070.6	12339.9	10488.6	6819.9
77.5°	886.4	899.1	958.5	1111.2	1533.2	2661.4	7239.8	7782.7	8696.7	7394.6	3891.4
80°	718.9	731.6	782.5	873.7	1020.0	1261.8	3363.3	3656.0	4654.8	3282.7	1518.4
82.5°	559.8	551.4	617.1	676.5	742.2	746.5	1380.5	1526.9	1895.8	1412.3	657.4
85°	415.6	415.6	468.7	455.9	479.3	436.8	608.6	672.2	759.2	600.1	305.4
87.5°	165.4	182.4	307.5	275.7	214.2	171.8	224.8	237.5	263.0	235.4	127.2
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°	5104.4	5104.4	5104.4	5104.4	5104.4	5104.4	5104.4	5104.4	5104.4	5104.4	5104.4
2.5°	5112.8	5119.2	5104.4	5093.8	5089.5	5083.2	5076.8	5078.9	5087.4	5095.9	5093.8
5°	5138.3	5140.4	5115.0	5102.2	5093.8	5085.3	5085.3	5091.6	5108.6	5121.3	5121.3
7.5°	5201.9	5201.9	5165.9	5142.5	5129.8	5115.0	5110.7	5112.8	5125.6	5142.5	5144.6
10°	5301.6	5293.1	5246.4	5210.4	5187.1	5151.0	5119.2	5102.2	5108.6	5119.2	5119.2
12.5°	5422.5	5399.1	5339.7	5291.0	5233.7	5165.9	5100.1	5066.2	5064.1	5074.7	5070.4
15°	5551.8	5526.4	5443.7	5354.6	5254.9	5155.3	5076.8	5028.0	4989.8	4979.2	5002.6
17.5°	5702.4	5649.4	5534.8	5411.8	5263.4	5134.0	5011.0	4911.4	4843.5	4824.4	4830.8
20°	5884.7	5814.8	5660.0	5467.0	5257.0	5057.7	4866.8	4733.2	4623.0	4589.0	4593.3
22.5°	6137.1	6016.2	5789.3	5494.6	5204.0	4913.5	4648.4	4474.5	4340.9	4287.9	4319.7
25°	6423.4	6291.9	5912.3	5488.2	5066.2	4682.4	4389.7	4162.8	4041.9	3963.5	3980.4
27.5°	6817.8	6584.6	6043.8	5430.9	4869.0	4400.3	4061.0	3846.8	3736.6	3696.3	3715.3
30°	7322.5	6964.1	6185.9	5276.1	4557.2	4044.0	3730.2	3590.2	3524.5	3473.6	3490.6
32.5°	7687.3	7231.3	6217.7	5015.3	4220.1	3719.6	3505.4	3401.5	3329.4	3280.6	3291.2
35°	7948.1	7458.3	6202.8	4695.1	3868.0	3452.4	3327.3	3242.4	3125.8	3019.8	3000.7
37.5°	8298.0	7742.4	6094.7	4345.2	3520.2	3272.1	3183.1	3026.1	2858.6	2716.5	2710.2
40°	8834.5	8075.4	5863.5	3933.8	3223.4	3138.5	3030.4	2826.8	2646.5	2532.0	2523.5
42.5°	9388.0	8382.9	5549.7	3501.2	2979.5	2998.6	2867.1	2665.6	2555.4	2481.1	2472.7
45°	10064.5	8715.8	5210.4	3125.8	2799.2	2867.1	2725.0	2608.4	2542.6	2493.9	2481.1
47.5°	10796.1	9057.2	4828.7	2788.6	2646.5	2746.2	2665.6	2612.6	2576.6	2542.6	2527.8
50°	11585.0	9438.9	4470.3	2517.2	2508.7	2621.1	2659.3	2640.2	2619.0	2608.4	2595.7
52.5°	12450.2	9829.1	4169.2	2326.3	2387.8	2532.0	2661.4	2676.2	2676.2	2669.9	2661.4
55°	13035.5	10100.6	3863.8	2171.5	2264.8	2459.9	2657.1	2714.4	2735.6	2727.1	2718.6
57.5°	13468.1	10249.0	3480.0	2037.9	2160.9	2390.0	2633.8	2718.6	2739.9	2750.5	2746.2
60°	13557.2	10111.2	2977.4	1898.0	2048.5	2288.2	2549.0	2655.0	2682.6	2748.3	2754.7
62.5°	13156.4	9687.0	2476.9	1760.1	1910.7	2133.4	2434.5	2582.9	2638.1	2739.9	2750.5
64°	12664.4	9212.0	2199.1	1673.2	1821.6	2046.4	2377.2	2563.8	2635.9	2771.7	2780.1
65°	12303.9	8866.4	2025.2	1618.0	1764.4	1989.2	2345.4	2570.2	2655.0	2820.4	2833.2
67.5°	10976.4	7676.7	1675.3	1488.7	1628.6	1891.6	2351.8	2623.2	2650.8	2839.5	2837.4
70°	9082.7	6111.7	1403.9	1369.9	1497.2	1813.1	2326.3	2538.4	2540.5	2665.6	2635.9
72.5°	6800.9	4516.9	1217.2	1246.9	1350.8	1626.5	2197.0	2423.9	2387.8	2404.8	2375.1
75°	4671.7	2988.0	1047.6	1115.5	1198.2	1437.8	2014.6	2201.2	2144.0	2122.8	2101.5
77.5°	2493.9	1652.0	871.6	986.1	1041.2	1242.7	1758.0	1938.3	1878.9	1796.2	1768.6
80°	1009.4	778.3	701.9	816.4	848.3	1000.9	1463.2	1575.6	1531.1	1386.9	1340.2
82.5°	506.8	466.5	551.4	642.6	644.7	714.7	1087.9	1193.9	1094.2	918.2	877.9
85°	265.1	273.6	379.6	451.7	398.7	386.0	653.2	723.1	663.8	576.8	519.6
87.5°	95.4	110.3	199.3	197.2	140.0	74.2	144.2	70.0	38.2	23.3	29.7
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)