

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: P455577

Luminaire Tested: **GALN-SA6D-730-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455577
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-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41429 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

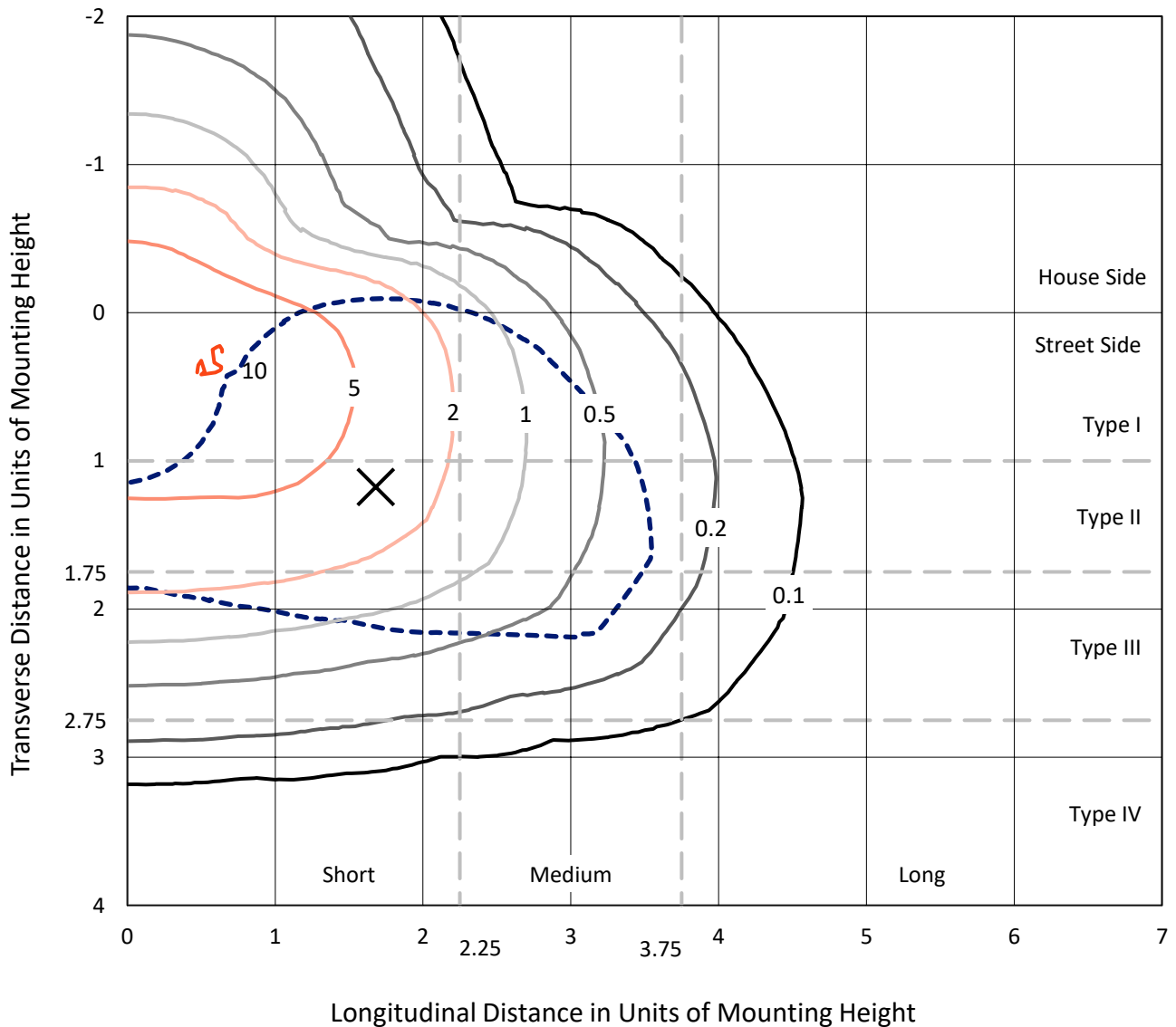
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

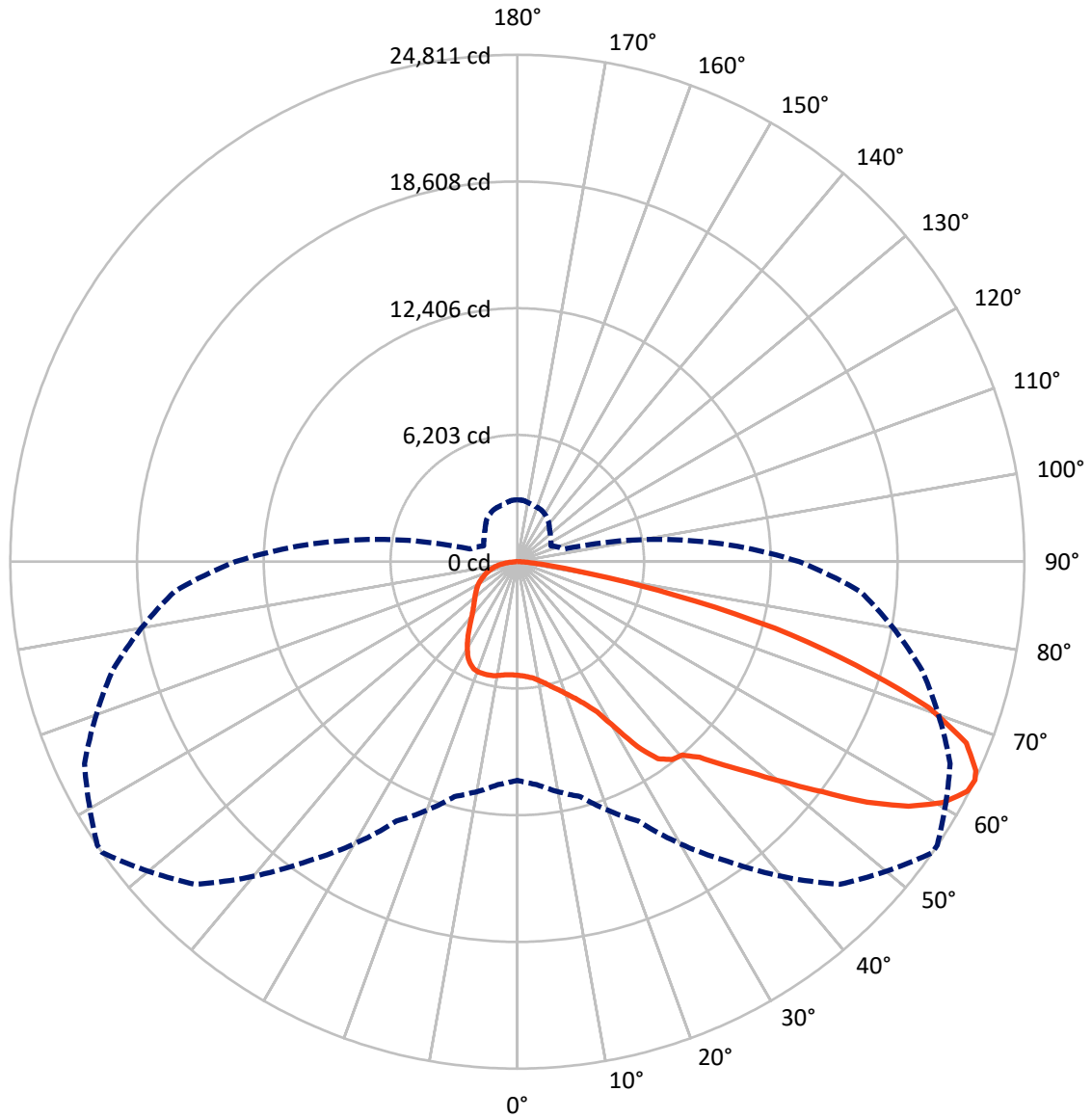
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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	10063.9	0.0	10063.9
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	31365.1	0.0	31365.1
	% Fixture	75.7	0.0	75.7
Total	Lumens	41429.0	0.0	41429.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.7	1.3
10°-20°	1706.1	4.1
20°-30°	3037.2	7.3
30°-40°	4673.1	11.3
40°-50°	6624.5	16.0
50°-60°	9588.8	23.1
60°-70°	9923.4	24.0
70°-80°	4647.2	11.2
80°-90°	688.0	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°	41429.0	100.0
0°-180°	41429.0	100.0

Coefficient of Utilization



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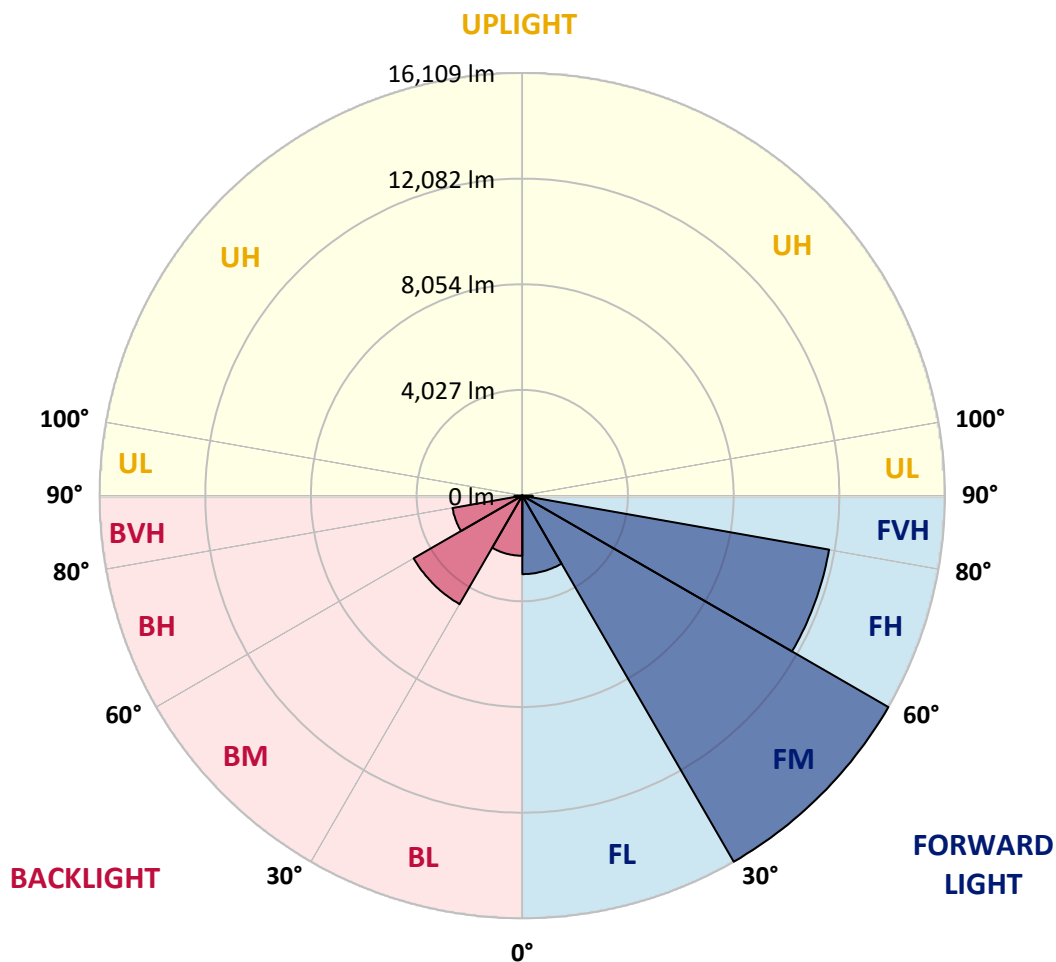
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2991.8	7.2			
FM (30°-60°)	16108.7	38.9			
FH (60°-80°)	11870.6	28.7			G4/12000
FVH (80°-90°)	393.9	1.0			G3/500
BL (0°-30°)	2292.2	5.5	B3/2500		
BM (30°-60°)	4777.7	11.5	B3/5000		
BH (60°-80°)	2700.0	6.5	B4/5000		G4/5000
BVH (80°-90°)	294.0	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	5558.5	5558.5	5558.5	5558.5	5558.5	5558.5	5558.5	5558.5	5558.5	5558.5	5558.5
2.5°	5620.9	5618.6	5625.5	5618.6	5623.2	5607.0	5600.1	5604.7	5597.8	5586.2	5565.4
5°	5690.2	5687.8	5690.2	5680.9	5685.5	5676.3	5660.1	5664.7	5653.2	5627.8	5597.8
7.5°	5807.9	5798.7	5798.7	5796.4	5787.1	5773.3	5761.7	5757.1	5745.6	5713.2	5667.1
10°	5960.3	5960.3	5962.7	5944.2	5955.7	5930.3	5918.8	5916.5	5877.2	5835.6	5771.0
12.5°	6161.3	6172.8	6165.9	6156.6	6152.0	6142.8	6103.5	6112.8	6068.9	5997.3	5918.8
15°	6410.7	6429.1	6417.6	6413.0	6401.4	6366.8	6350.6	6343.7	6286.0	6182.0	6078.1
17.5°	6740.9	6717.8	6708.6	6697.0	6648.5	6623.1	6595.4	6590.8	6540.0	6417.6	6255.9
20°	7029.6	7061.9	7043.4	7031.9	6983.4	6934.9	6914.1	6907.2	6863.3	6729.3	6470.7
22.5°	7373.6	7380.6	7387.5	7359.8	7336.7	7299.7	7262.8	7251.2	7235.1	7096.5	6780.1
25°	7740.8	7768.5	7745.4	7717.7	7690.0	7687.7	7722.3	7717.7	7710.8	7576.9	7191.2
27.5°	8338.9	8364.3	8371.3	8341.2	8235.0	8244.3	8322.8	8348.2	8454.4	8232.7	7720.0
30°	8676.1	8701.5	8759.2	8872.4	9041.0	9188.8	9378.1	9435.9	9537.5	9119.5	8348.2
32.5°	8883.9	8893.2	8997.1	9207.2	9713.0	10264.9	10779.9	10800.7	10865.3	10278.8	8923.2
35°	9211.9	9218.8	9301.9	9532.9	10126.3	11045.5	11842.2	11867.6	11814.5	10639.0	9191.1
37.5°	9616.0	9634.5	9687.6	9879.2	10588.2	11699.0	12283.2	12264.8	11793.7	10925.4	9664.5
40°	10204.9	10204.9	10142.5	10401.2	11075.5	12073.1	12438.0	12405.6	12280.9	11754.4	10385.0
42.5°	10724.5	10715.2	10863.0	11038.5	11685.1	12650.4	13086.9	13140.0	13345.5	12795.9	11204.8
45°	11401.1	11442.7	11525.8	11844.5	12722.0	13636.5	14200.0	14250.8	14541.8	14022.2	12163.2
47.5°	12084.6	12098.5	12359.5	12784.4	14006.0	14973.6	15435.5	15518.6	15784.2	15456.2	13195.4
50°	12569.6	12701.2	13119.2	13788.9	15329.2	16604.0	16964.2	17063.5	17532.3	17017.3	14398.6
52.5°	13082.3	13211.6	13722.0	14742.7	16848.8	18271.3	18714.7	18781.7	19268.9	18596.9	15629.4
55°	13521.0	13641.1	14220.8	15587.9	18058.8	19973.3	20776.9	20698.4	20931.6	19813.9	16578.6
57.5°	13592.6	13689.6	14419.4	16128.3	18968.7	21432.8	22585.1	22631.3	22361.1	20723.8	17361.4
60°	13038.4	13237.0	14075.3	16070.5	19377.5	22448.9	23933.7	23966.1	23199.4	21190.3	17673.2
62.5°	12056.9	12036.2	13049.9	15142.2	18804.8	22679.8	24728.1	24693.5	23527.3	20966.3	17370.7
64°	10701.4	10950.8	11897.6	14001.4	17881.0	22324.1	24811.3	24792.8	23370.3	20499.8	16855.7
65°	9874.6	9860.8	10796.0	13068.4	16961.9	21788.4	24663.5	24638.1	23042.3	20081.8	16456.2
67.5°	7128.9	7161.2	8084.9	10084.8	13788.9	19693.8	23700.5	23605.8	21749.1	18696.2	14936.6
70°	4318.4	4336.9	5062.0	6690.1	9897.7	15920.4	21363.5	21368.1	19770.0	16627.1	12712.8
72.5°	2274.7	2323.2	2614.1	3798.8	6011.1	11170.2	17331.4	17742.5	16973.5	14190.7	10043.2
75°	1265.5	1272.4	1478.0	1872.9	3066.8	6251.3	13026.8	13144.6	13437.9	11421.9	7426.8
77.5°	965.3	979.1	1043.8	1210.1	1669.6	2898.2	7884.0	8475.2	9470.5	8052.6	4237.6
80°	782.9	796.7	852.1	951.4	1110.8	1374.0	3662.6	3981.3	5068.9	3574.8	1653.5
82.5°	609.7	600.4	672.0	736.7	808.3	812.9	1503.4	1662.7	2064.5	1538.0	715.9
85°	452.6	452.6	510.4	496.5	521.9	475.7	662.8	732.1	826.7	653.5	332.5
87.5°	180.1	198.6	334.9	300.2	233.2	187.1	244.8	258.6	286.4	256.3	138.6
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°	5558.5	5558.5	5558.5	5558.5	5558.5	5558.5	5558.5	5558.5	5558.5	5558.5	5558.5
2.5°	5567.8	5574.7	5558.5	5547.0	5542.4	5535.4	5528.5	5530.8	5540.0	5549.3	5547.0
5°	5595.5	5597.8	5570.1	5556.2	5547.0	5537.7	5537.7	5544.7	5563.1	5577.0	5577.0
7.5°	5664.7	5664.7	5625.5	5600.1	5586.2	5570.1	5565.4	5567.8	5581.6	5600.1	5602.4
10°	5773.3	5764.1	5713.2	5674.0	5648.6	5609.3	5574.7	5556.2	5563.1	5574.7	5574.7
12.5°	5904.9	5879.5	5814.9	5761.7	5699.4	5625.5	5553.9	5517.0	5514.6	5526.2	5521.6
15°	6045.8	6018.1	5928.0	5831.0	5722.5	5613.9	5528.5	5475.4	5433.8	5422.3	5447.7
17.5°	6209.7	6152.0	6027.3	5893.4	5731.7	5590.9	5456.9	5348.4	5274.5	5253.7	5260.6
20°	6408.3	6332.1	6163.6	5953.4	5724.8	5507.7	5299.9	5154.4	5034.3	4997.4	5002.0
22.5°	6683.2	6551.5	6304.4	5983.4	5667.1	5350.7	5062.0	4872.7	4727.2	4669.4	4704.1
25°	6994.9	6851.7	6438.4	5976.5	5517.0	5099.0	4780.3	4533.2	4401.6	4316.1	4334.6
27.5°	7424.4	7170.4	6581.5	5914.2	5302.2	4791.8	4422.3	4189.1	4069.0	4025.1	4045.9
30°	7974.1	7583.8	6736.3	5745.6	4962.7	4403.9	4062.1	3909.7	3838.1	3782.7	3801.1
32.5°	8371.3	7874.8	6770.9	5461.5	4595.5	4050.5	3817.3	3704.1	3625.6	3572.5	3584.1
35°	8655.3	8121.9	6754.7	5112.8	4212.2	3759.6	3623.3	3530.9	3403.9	3288.5	3267.7
37.5°	9036.3	8431.3	6637.0	4731.8	3833.5	3563.3	3466.3	3295.4	3113.0	2958.2	2951.3
40°	9620.6	8793.9	6385.3	4283.8	3510.2	3417.8	3300.0	3078.3	2882.0	2757.3	2748.1
42.5°	10223.3	9128.7	6043.5	3812.7	3244.6	3265.4	3122.2	2902.8	2782.7	2701.9	2692.7
45°	10960.0	9491.3	5674.0	3403.9	3048.3	3122.2	2967.5	2840.5	2768.9	2715.8	2701.9
47.5°	11756.7	9863.1	5258.3	3036.7	2882.0	2990.6	2902.8	2845.1	2805.8	2768.9	2752.7
50°	12615.8	10278.8	4868.0	2741.2	2731.9	2854.3	2895.9	2875.1	2852.0	2840.5	2826.6
52.5°	13558.0	10703.7	4540.1	2533.3	2600.3	2757.3	2898.2	2914.4	2914.4	2907.4	2898.2
55°	14195.4	10999.3	4207.6	2364.7	2466.3	2678.8	2893.6	2955.9	2979.0	2969.8	2960.5
57.5°	14666.5	11160.9	3789.6	2219.3	2353.2	2602.6	2868.2	2960.5	2983.6	2995.2	2990.6
60°	14763.5	11010.8	3242.3	2066.8	2230.8	2491.8	2775.8	2891.3	2921.3	2992.9	2999.8
62.5°	14327.0	10549.0	2697.3	1916.7	2080.7	2323.2	2651.1	2812.7	2872.8	2983.6	2995.2
64°	13791.2	10031.7	2394.8	1822.0	1983.7	2228.5	2588.7	2792.0	2870.5	3018.3	3027.5
65°	13398.6	9655.2	2205.4	1762.0	1921.4	2166.1	2554.1	2798.9	2891.3	3071.4	3085.2
67.5°	11953.0	8359.7	1824.4	1621.1	1773.6	2059.9	2561.0	2856.6	2886.6	3092.2	3089.9
70°	9890.8	6655.4	1528.8	1491.8	1630.4	1974.5	2533.3	2764.3	2766.6	2902.8	2870.5
72.5°	7406.0	4918.8	1325.5	1357.9	1471.0	1771.2	2392.5	2639.5	2600.3	2618.8	2586.4
75°	5087.4	3253.8	1140.8	1214.7	1304.8	1565.7	2193.8	2397.1	2334.7	2311.6	2288.5
77.5°	2715.8	1799.0	949.1	1073.8	1133.9	1353.3	1914.4	2110.7	2046.1	1956.0	1926.0
80°	1099.2	847.5	764.4	889.1	923.7	1090.0	1593.4	1715.8	1667.3	1510.3	1459.5
82.5°	551.9	508.0	600.4	699.7	702.0	778.2	1184.7	1300.1	1191.6	999.9	956.1
85°	288.7	297.9	413.4	491.9	434.2	420.3	711.3	787.5	722.8	628.1	565.8
87.5°	103.9	120.1	217.1	214.8	152.4	80.8	157.0	76.2	41.6	25.4	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)