

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: P459376

Luminaire Tested: **GALN-SA8B-735-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459376
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-SA8B-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42446 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

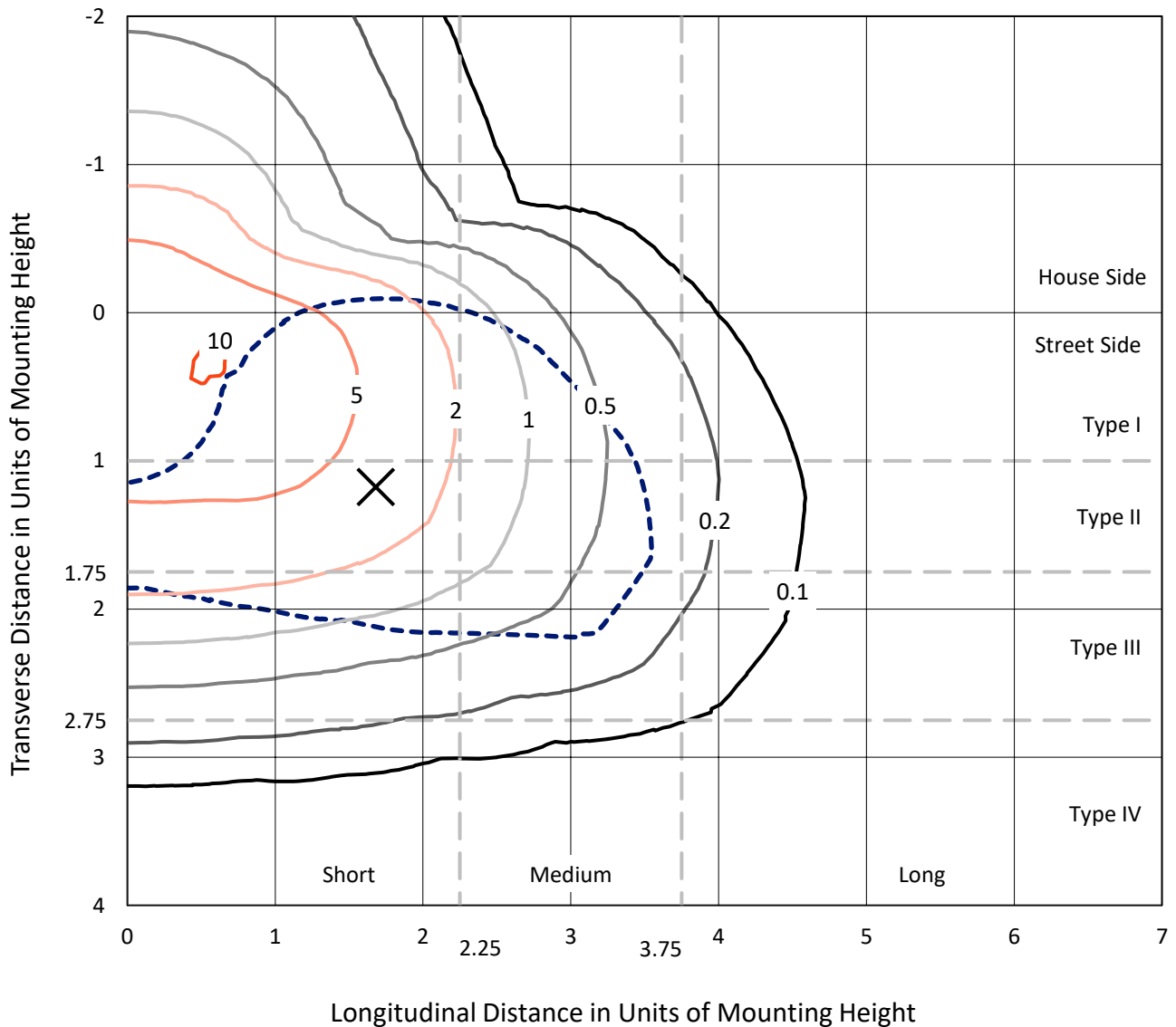
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

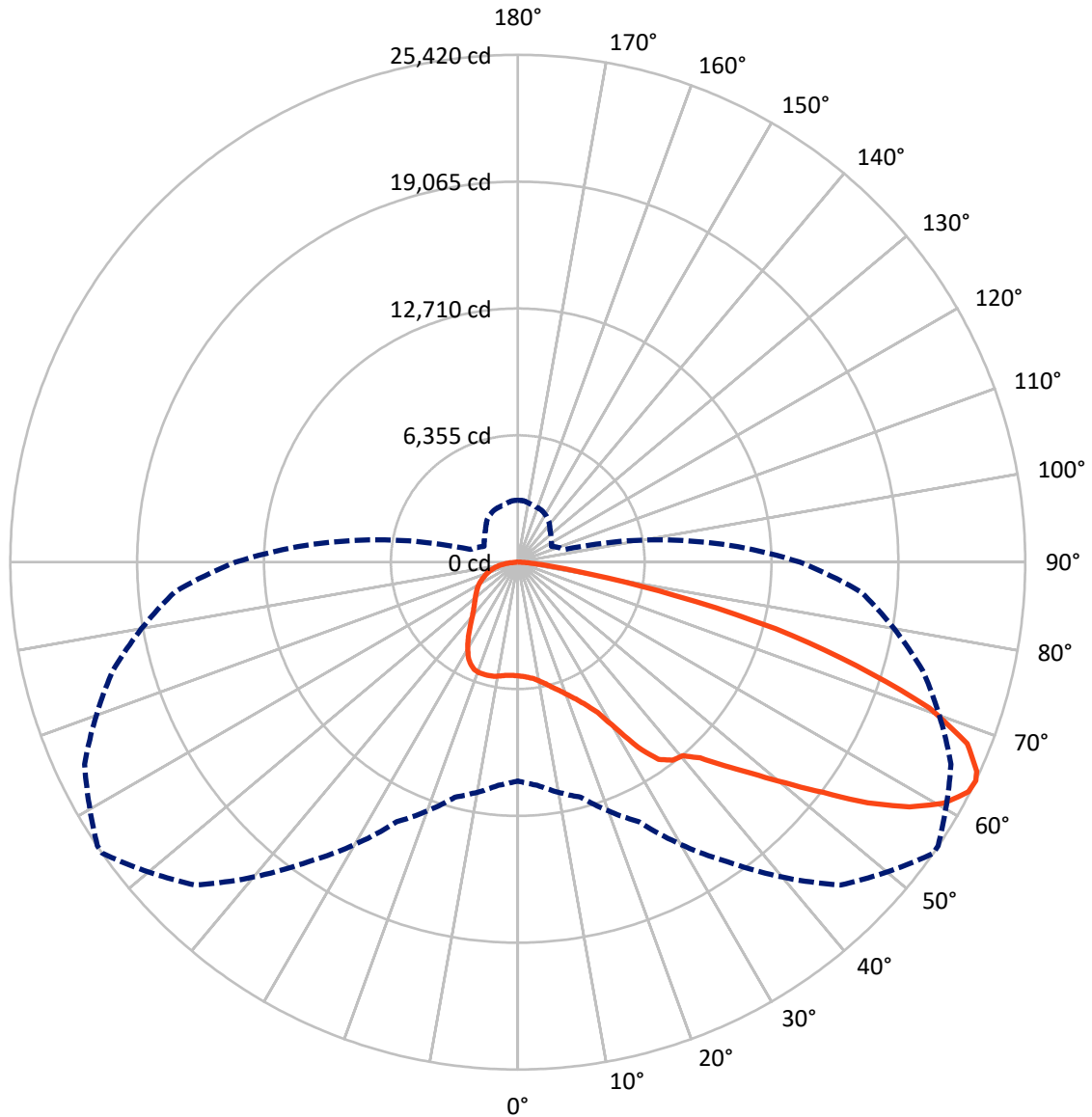
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	10311.0	0.0	10311.0
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	32135.0	0.0	32135.0
	% Fixture	75.7	0.0	75.7
Total	Lumens	42446.0	0.0	42446.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	554.0	1.3
10°-20°	1747.9	4.1
20°-30°	3111.8	7.3
30°-40°	4787.8	11.3
40°-50°	6787.1	16.0
50°-60°	9824.2	23.1
60°-70°	10167.0	24.0
70°-80°	4761.2	11.2
80°-90°	704.8	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°	42446.0	100.0
0°-180°	42446.0	100.0

Coefficient of Utilization



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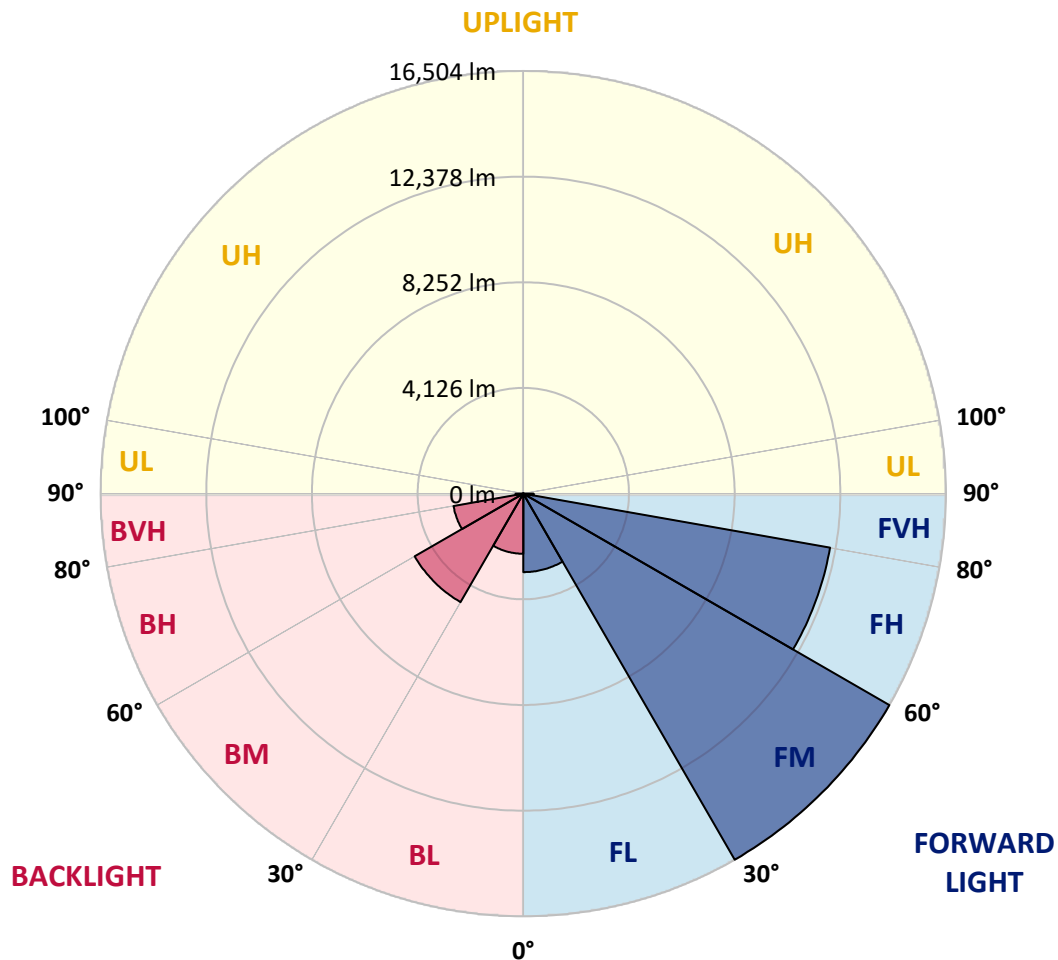
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3065.3	7.2			
FM (30°-60°)	16504.2	38.9			
FH (60°-80°)	12162.0	28.7			G5
FVH (80°-90°)	403.6	1.0			G3/500
BL (0°-30°)	2348.4	5.5	B3/2500		
BM (30°-60°)	4895.0	11.5	B3/5000		
BH (60°-80°)	2766.2	6.5	B4/5000		G4/5000
BVH (80°-90°)	301.3	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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5695.0	5695.0	5695.0	5695.0	5695.0	5695.0	5695.0	5695.0	5695.0	5695.0	5695.0
2.5°	5758.9	5756.5	5763.6	5756.5	5761.2	5744.7	5737.6	5742.3	5735.2	5723.4	5702.1
5°	5829.8	5827.5	5829.8	5820.4	5825.1	5815.6	5799.1	5803.8	5792.0	5766.0	5735.2
7.5°	5950.5	5941.0	5941.0	5938.7	5929.2	5915.0	5903.2	5898.4	5886.6	5853.5	5806.2
10°	6106.7	6106.7	6109.0	6090.1	6101.9	6075.9	6064.1	6061.7	6021.5	5978.9	5912.6
12.5°	6312.5	6324.3	6317.2	6307.8	6303.0	6293.6	6253.3	6262.8	6217.9	6144.5	6064.1
15°	6568.0	6587.0	6575.1	6570.4	6558.6	6523.1	6506.5	6499.4	6440.3	6333.8	6227.3
17.5°	6906.4	6882.7	6873.2	6861.4	6811.7	6785.7	6757.3	6752.6	6700.5	6575.1	6409.5
20°	7202.1	7235.2	7216.3	7204.5	7154.8	7105.1	7083.8	7076.7	7031.8	6894.5	6629.5
22.5°	7554.7	7561.7	7568.8	7540.5	7516.8	7478.9	7441.1	7429.3	7412.7	7270.7	6946.6
25°	7930.8	7959.2	7935.6	7907.2	7878.8	7876.4	7911.9	7907.2	7900.1	7762.9	7367.7
27.5°	8543.6	8569.7	8576.8	8546.0	8437.2	8446.6	8527.1	8553.1	8661.9	8434.8	7909.6
30°	8889.1	8915.1	8974.3	9090.2	9262.9	9414.3	9608.3	9667.5	9771.6	9343.4	8553.1
32.5°	9102.0	9111.5	9218.0	9433.3	9951.4	10516.9	11044.5	11065.8	11132.0	10531.1	9142.2
35°	9438.0	9445.1	9530.3	9766.9	10374.9	11316.6	12132.9	12158.9	12104.5	10900.2	9416.7
37.5°	9852.0	9871.0	9925.4	10121.8	10848.1	11986.2	12584.8	12565.8	12083.2	11193.6	9901.7
40°	10455.4	10455.4	10391.5	10656.5	11347.4	12369.5	12743.3	12710.2	12582.4	12043.0	10639.9
42.5°	10987.7	10978.3	11129.7	11309.5	11972.0	12961.0	13408.1	13462.6	13673.1	13110.0	11479.9
45°	11681.0	11723.6	11808.7	12135.2	13034.3	13971.3	14548.6	14600.6	14898.7	14366.4	12461.7
47.5°	12381.3	12395.5	12662.9	13098.2	14349.8	15341.2	15814.4	15899.5	16171.6	15835.7	13519.3
50°	12878.2	13013.0	13441.3	14127.4	15705.5	17011.6	17380.7	17482.4	17962.7	17435.1	14752.0
52.5°	13403.4	13535.9	14058.8	15104.6	17262.4	18719.8	19174.1	19242.7	19741.9	19053.4	16013.1
55°	13853.0	13976.0	14569.9	15970.5	18502.2	20463.6	21286.9	21206.5	21445.5	20300.3	16985.5
57.5°	13926.3	14025.7	14773.3	16524.2	19434.4	21958.9	23139.5	23186.8	22910.0	21232.5	17787.6
60°	13358.5	13561.9	14420.8	16465.0	19853.1	22999.9	24521.3	24554.4	23768.9	21710.5	18107.0
62.5°	12352.9	12331.6	13370.3	15513.9	19266.4	23236.5	25335.2	25299.7	24104.9	21481.0	17797.1
64°	10964.1	11219.6	12189.7	14345.1	18320.0	22872.2	25420.3	25401.4	23944.0	21003.0	17269.5
65°	10117.0	10102.8	11061.1	13389.2	17378.3	22323.2	25268.9	25242.9	23608.0	20574.8	16860.1
67.5°	7303.9	7337.0	8283.4	10332.3	14127.4	20177.3	24282.3	24185.3	22283.0	19155.2	15303.3
70°	4424.4	4443.4	5186.3	6854.3	10140.7	16311.2	21887.9	21892.6	20255.4	17035.2	13024.9
72.5°	2330.5	2380.2	2678.3	3892.1	6158.7	11444.4	17756.9	18178.0	17390.1	14539.1	10289.8
75°	1296.6	1303.7	1514.2	1918.8	3142.1	6404.8	13346.6	13467.3	13767.8	11702.3	7609.1
77.5°	989.0	1003.2	1069.4	1239.8	1710.6	2969.3	8077.5	8683.2	9703.0	8250.3	4341.6
80°	802.1	816.3	873.1	974.8	1138.0	1407.8	3752.5	4079.0	5193.4	3662.6	1694.1
82.5°	624.6	615.2	688.5	754.8	828.1	832.8	1540.3	1703.5	2115.2	1575.8	733.5
85°	463.7	463.7	522.9	508.7	534.7	487.4	679.0	750.0	847.0	669.6	340.7
87.5°	184.5	203.5	343.1	307.6	239.0	191.6	250.8	265.0	293.4	262.6	142.0
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°	5695.0	5695.0	5695.0	5695.0	5695.0	5695.0	5695.0	5695.0	5695.0	5695.0	5695.0
2.5°	5704.4	5711.5	5695.0	5683.1	5678.4	5671.3	5664.2	5666.6	5676.0	5685.5	5683.1
5°	5732.8	5735.2	5706.8	5692.6	5683.1	5673.7	5673.7	5680.8	5699.7	5713.9	5713.9
7.5°	5803.8	5803.8	5763.6	5737.6	5723.4	5706.8	5702.1	5704.4	5718.6	5737.6	5739.9
10°	5915.0	5905.5	5853.5	5813.3	5787.2	5747.0	5711.5	5692.6	5699.7	5711.5	5711.5
12.5°	6049.9	6023.8	5957.6	5903.2	5839.3	5763.6	5690.2	5652.4	5650.0	5661.8	5657.1
15°	6194.2	6165.8	6073.5	5974.2	5863.0	5751.8	5664.2	5609.8	5567.2	5555.4	5581.4
17.5°	6362.2	6303.0	6175.3	6038.0	5872.4	5728.1	5590.9	5479.7	5404.0	5382.7	5389.8
20°	6565.7	6487.6	6314.9	6099.6	5865.3	5642.9	5430.0	5280.9	5157.9	5120.0	5124.8
22.5°	6847.2	6712.4	6459.2	6130.3	5806.2	5482.0	5186.3	4992.3	4843.2	4784.1	4819.6
25°	7166.6	7019.9	6596.4	6123.2	5652.4	5224.1	4897.6	4644.5	4509.6	4422.1	4441.0
27.5°	7606.7	7346.4	6743.1	6059.3	5432.3	4909.5	4530.9	4291.9	4168.9	4123.9	4145.2
30°	8169.8	7770.0	6901.6	5886.6	5084.5	4512.0	4161.8	4005.6	3932.3	3875.5	3894.4
32.5°	8576.8	8068.1	6937.1	5595.6	4708.3	4150.0	3911.0	3795.1	3714.6	3660.2	3672.0
35°	8867.8	8321.2	6920.6	5238.3	4315.6	3851.9	3712.3	3617.6	3487.5	3369.2	3347.9
37.5°	9258.2	8638.3	6799.9	4847.9	3927.6	3650.7	3551.4	3376.3	3189.4	3030.9	3023.8
40°	9856.8	9009.7	6542.0	4388.9	3596.3	3501.7	3381.0	3153.9	2952.8	2825.0	2815.5
42.5°	10474.3	9352.8	6191.8	3906.3	3324.2	3345.5	3198.8	2974.1	2851.0	2768.2	2758.8
45°	11229.1	9724.3	5813.3	3487.5	3123.1	3198.8	3040.3	2910.2	2836.8	2782.4	2768.2
47.5°	12045.3	10105.2	5387.4	3111.3	2952.8	3064.0	2974.1	2914.9	2874.7	2836.8	2820.3
50°	12925.5	10531.1	4987.5	2808.4	2799.0	2924.4	2967.0	2945.7	2922.0	2910.2	2896.0
52.5°	13890.8	10966.4	4651.6	2595.5	2664.1	2825.0	2969.3	2985.9	2985.9	2978.8	2969.3
55°	14543.8	11269.3	4310.9	2422.8	2526.9	2744.6	2964.6	3028.5	3052.1	3042.7	3033.2
57.5°	15026.5	11434.9	3882.6	2273.7	2411.0	2666.5	2938.6	3033.2	3056.9	3068.7	3064.0
60°	15125.9	11281.1	3321.9	2117.6	2285.6	2552.9	2843.9	2962.2	2993.0	3066.3	3073.4
62.5°	14678.7	10807.9	2763.5	1963.8	2131.8	2380.2	2716.2	2881.8	2943.3	3056.9	3068.7
64°	14129.8	10277.9	2453.5	1866.8	2032.4	2283.2	2652.3	2860.5	2940.9	3092.4	3101.8
65°	13727.6	9892.3	2259.5	1805.3	1968.5	2219.3	2616.8	2867.6	2962.2	3146.8	3161.0
67.5°	12246.4	8564.9	1869.1	1660.9	1817.1	2110.5	2623.9	2926.7	2957.5	3168.1	3165.7
70°	10133.6	6818.8	1566.3	1528.4	1670.4	2022.9	2595.5	2832.1	2834.5	2974.1	2940.9
72.5°	7587.8	5039.6	1358.1	1391.2	1507.1	1814.7	2451.2	2704.3	2664.1	2683.0	2649.9
75°	5212.3	3333.7	1168.8	1244.5	1336.8	1604.2	2247.7	2455.9	2392.0	2368.4	2344.7
77.5°	2782.4	1843.1	972.4	1100.2	1161.7	1386.5	1961.4	2162.5	2096.3	2004.0	1973.2
80°	1126.2	868.3	783.1	910.9	946.4	1116.8	1632.5	1757.9	1708.3	1547.4	1495.3
82.5°	565.5	520.5	615.2	716.9	719.3	797.3	1213.8	1332.1	1220.9	1024.5	979.5
85°	295.8	305.2	423.5	504.0	444.8	430.6	728.7	806.8	740.6	643.6	579.7
87.5°	106.5	123.0	222.4	220.0	156.2	82.8	160.9	78.1	42.6	26.0	33.1
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)