

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: P533258

Luminaire Tested: **GALN-SA8C-830-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533258
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-830-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37840 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

Input Watts (W): 429
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

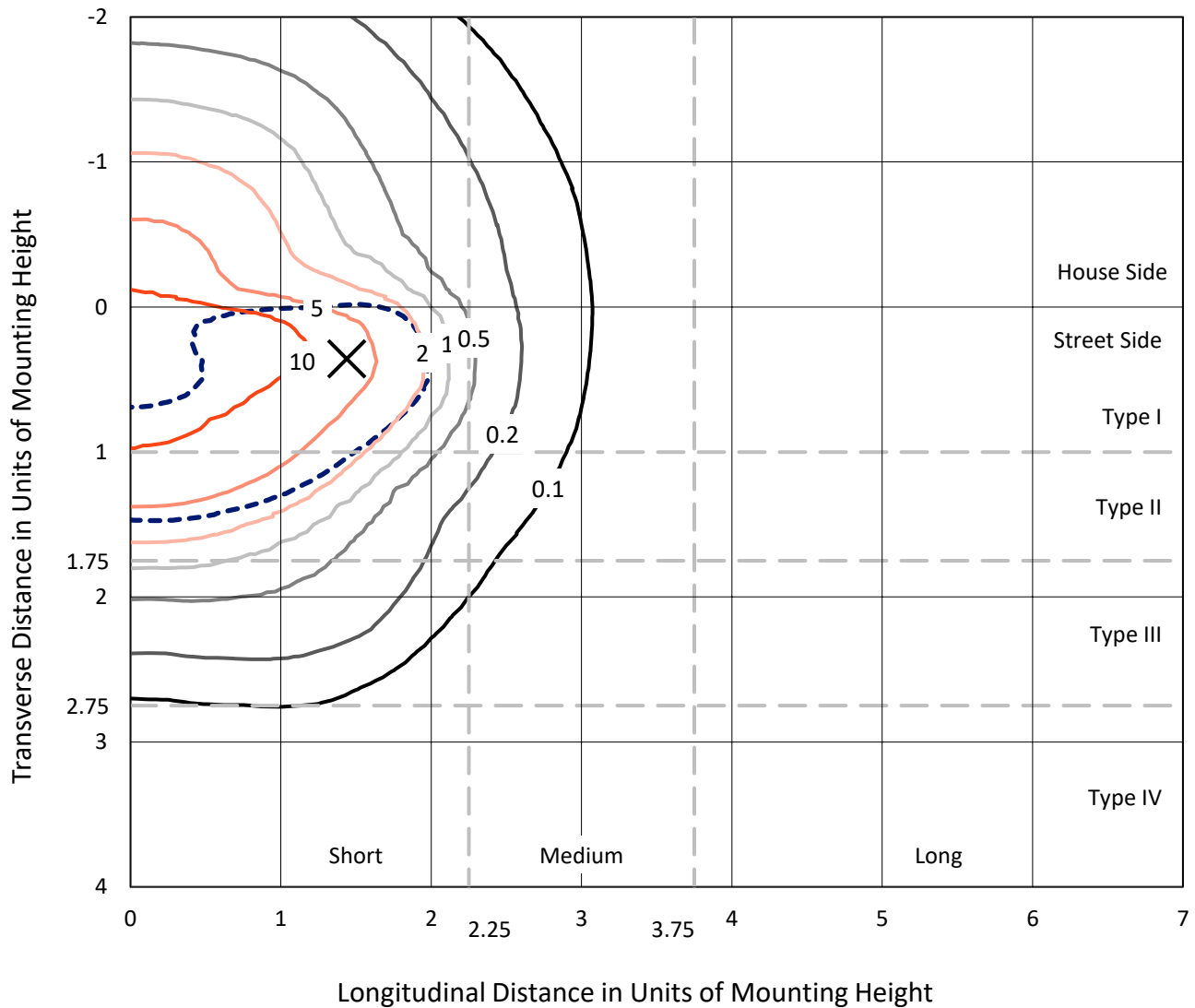


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Iso-Footcandle Lines of Horizontal Illumination

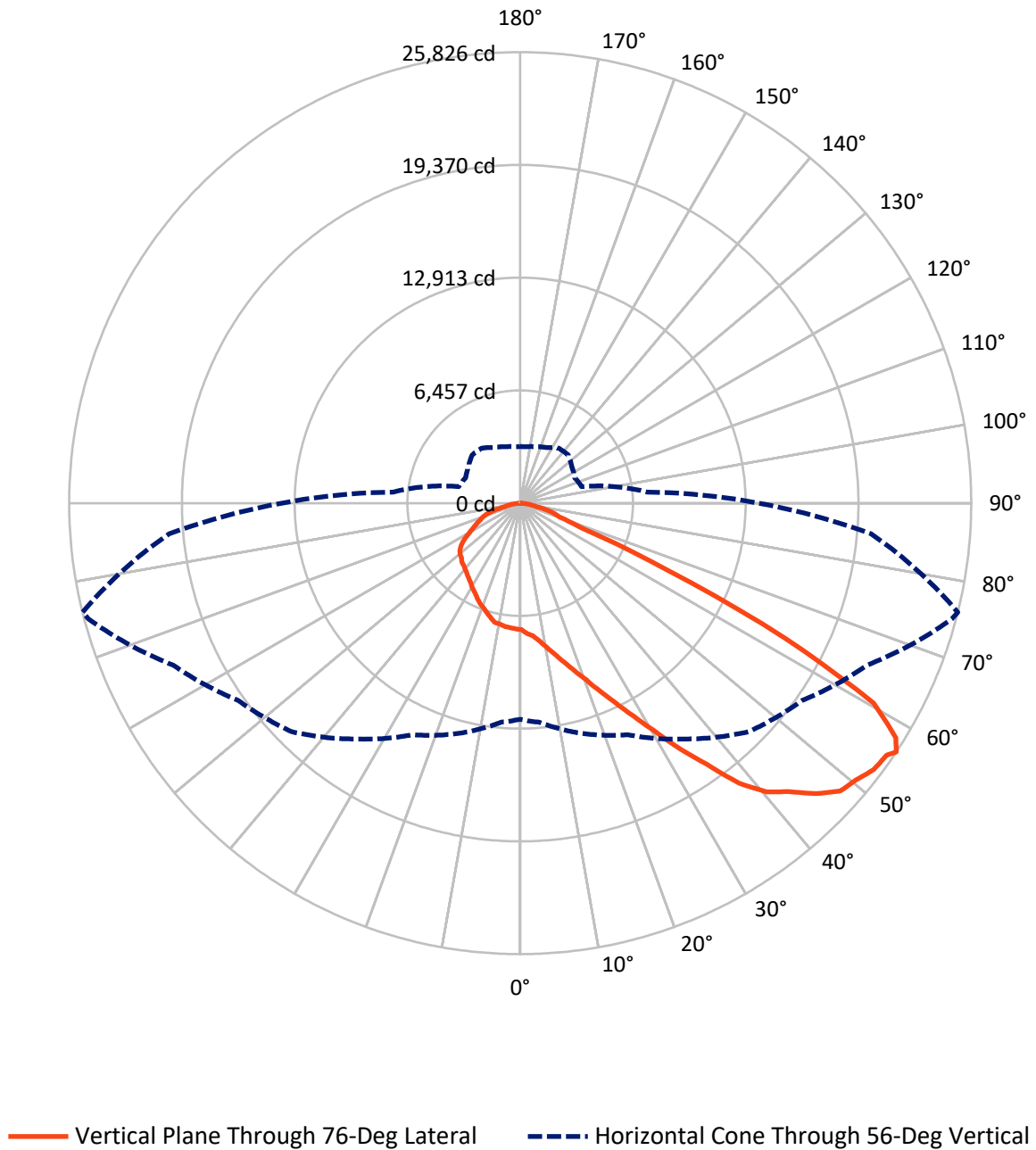
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10174.0	0.0	10174.0
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	27666.0	0.0	27666.0
	% Fixture	73.1	0.0	73.1
Total	Lumens	37840.0	0.0	37840.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	718.0	1.9
10°-20°	2255.5	6.0
20°-30°	3944.6	10.4
30°-40°	6176.0	16.3
40°-50°	8984.4	23.7
50°-60°	9874.4	26.1
60°-70°	4407.5	11.6
70°-80°	1273.1	3.4
80°-90°	206.5	0.5
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°	37840.0	100.0
0°-180°	37840.0	100.0

Coefficient of Utilization



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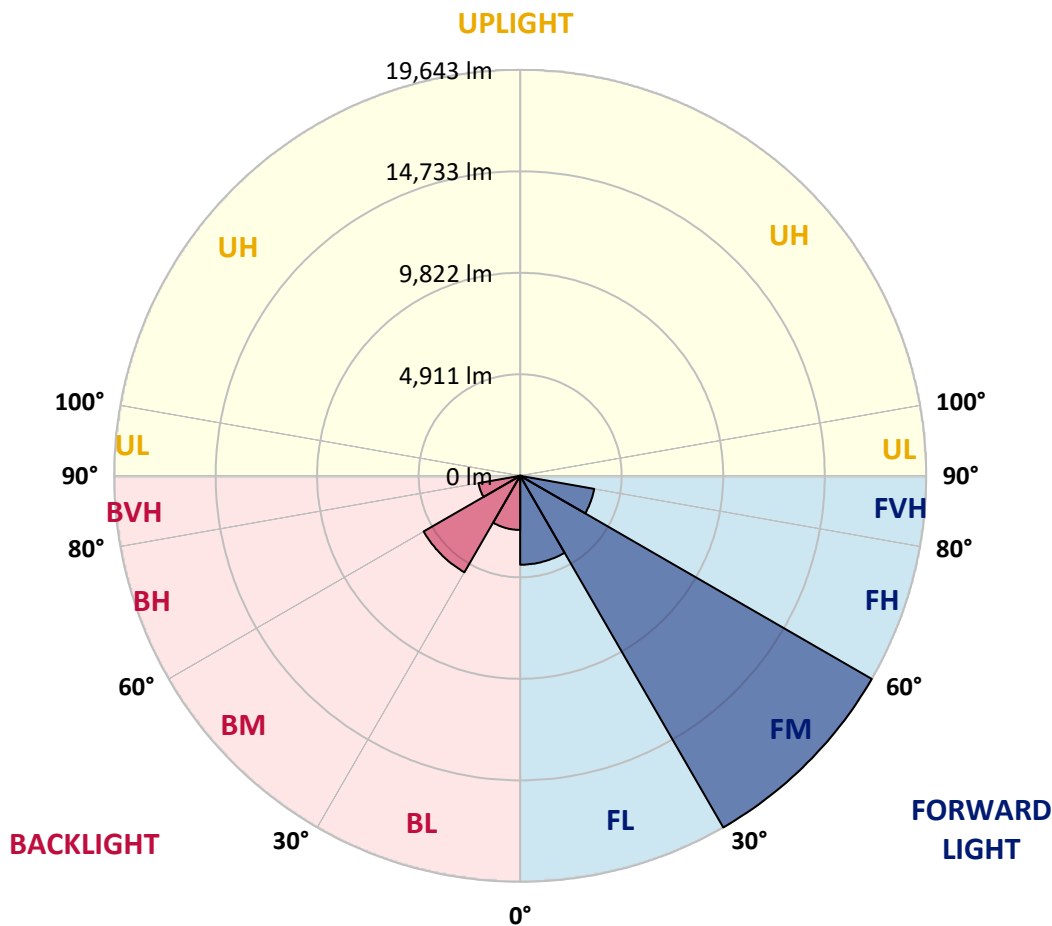
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4300.1	11.4			
FM	(30°-60°)	19643.4	51.9			
FH	(60°-80°)	3633.5	9.6			G2/5000
FVH	(80°-90°)	88.9	0.2			G1/100
BL	(0°-30°)	2618.0	6.9	B4/5000		
BM	(30°-60°)	5391.4	14.2	B4/8500		
BH	(60°-80°)	2047.0	5.4	B3/2500		G3/2500
BVH	(80°-90°)	117.6	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	7240.2	7240.2	7240.2	7240.2	7240.2	7240.2	7240.2	7240.2	7240.2	7240.2	7240.2
2.5°	7976.0	7848.5	7838.6	7804.3	7823.9	7735.6	7642.4	7519.8	7392.3	7470.7	7284.3
5°	8535.2	8363.5	8432.2	8314.5	8329.2	8211.4	8020.1	7877.9	7720.9	7627.7	7495.3
7.5°	8731.4	8746.1	8795.2	8775.6	8677.4	8677.4	8549.9	8299.7	8025.0	7971.1	7750.3
10°	8996.3	9001.2	8947.2	8962.0	9099.3	9035.5	8922.7	8814.8	8461.6	8397.8	8005.4
12.5°	9089.5	9001.2	9089.5	9168.0	9329.8	9418.1	9393.6	9315.1	8937.4	8893.3	8319.4
15°	9104.2	9050.2	9123.8	9300.4	9442.7	9815.5	10001.9	9947.9	9447.6	9452.5	8672.5
17.5°	9035.5	9109.1	9138.5	9290.6	9619.3	9967.5	10507.1	10580.7	10168.7	10104.9	9118.9
20°	9128.7	9074.8	9114.0	9251.4	9687.9	10232.4	10938.8	11424.4	10845.6	10801.4	9580.0
22.5°	9486.8	9413.2	9403.4	9491.7	9805.7	10369.8	11395.0	12268.1	11669.7	11694.2	10153.9
25°	9766.4	9805.7	9771.3	9766.4	9962.6	10575.8	11998.3	13273.7	12788.1	12645.8	10830.9
27.5°	10247.1	10340.3	10271.7	10364.9	10320.7	10884.8	12430.0	14387.2	13994.8	13803.5	11444.0
30°	10914.3	10963.3	10899.5	10899.5	10767.1	11316.5	12822.4	15549.7	15387.9	15127.9	12165.1
32.5°	11792.3	11865.9	11738.3	11664.8	11645.1	11959.1	13528.8	16697.6	16972.3	16751.5	13121.6
35°	12954.9	12910.7	12758.6	12690.0	12425.1	12945.0	14578.5	18017.1	18738.2	18345.8	14279.3
37.5°	13980.1	13911.4	13901.6	13519.0	13582.7	14009.5	15471.3	19017.8	20450.1	20337.3	15500.7
40°	14936.6	15000.4	15103.4	14887.5	14789.4	15260.3	16511.2	19783.0	21779.5	21735.3	16442.5
42.5°	15961.8	15902.9	16084.4	15902.9	15755.8	16422.9	17639.4	20312.8	22946.9	22583.9	17428.5
45°	17448.1	17261.7	17325.5	17340.2	17232.3	17477.5	18105.4	20695.4	23766.1	23726.9	18149.5
47.5°	18689.1	18694.0	18586.1	18502.7	18174.1	18419.3	18625.4	20935.7	24707.9	24644.1	18429.1
50°	19150.2	19086.5	19400.4	19581.9	19601.5	19101.2	19032.5	21068.2	25203.3	24923.7	18708.8
52.5°	17492.2	17551.1	18046.5	19125.7	19748.7	19802.6	19508.3	21342.9	25404.5	25345.6	18934.4
55°	14078.2	14362.7	15176.9	16422.9	17899.4	19523.0	20023.4	21627.4	25512.4	25463.3	19935.1
56°	12376.0	12596.8	13656.3	14632.5	16486.7	18507.6	19699.6	21931.5	25595.8	25826.3	20170.5
57.5°	9962.6	10217.7	10978.0	12086.6	14274.4	16575.0	18806.9	21558.7	25272.0	25360.3	20342.2
60°	6229.7	6254.2	7166.6	7897.5	9437.8	11684.4	14352.9	18757.8	23388.4	23260.9	18272.2
62.5°	4086.1	4091.0	4920.0	5518.4	6219.9	6735.0	8446.9	12439.8	17256.8	17031.1	13008.8
65°	2869.6	2933.4	3576.0	4375.5	4660.0	4390.2	4336.3	6558.4	9638.9	9315.1	6990.0
67.5°	2099.5	2104.4	2673.4	3531.8	3943.8	3340.5	2712.6	3203.1	3816.3	3806.5	3237.5
70°	1388.2	1447.1	1883.6	2639.0	3109.9	2683.2	2217.2	2290.8	2428.1	2428.1	2408.5
72.5°	809.4	863.3	1152.7	1672.7	1746.3	1677.6	1756.1	1962.1	2050.4	2045.5	2021.0
75°	461.1	485.6	549.4	696.6	868.2	1025.2	1290.1	1486.3	1574.6	1628.6	1564.8
77.5°	269.8	284.5	323.7	397.3	451.3	554.3	701.5	838.8	956.5	941.8	951.6
80°	142.3	142.3	181.5	235.5	313.9	392.4	466.0	544.5	608.3	623.0	637.7
82.5°	83.4	88.3	117.7	171.7	225.6	279.6	358.1	412.0	470.9	475.8	485.6
85°	44.1	49.1	73.6	112.8	152.1	171.7	176.6	166.8	181.5	171.7	196.2
87.5°	14.7	14.7	24.5	19.6	19.6	24.5	29.4	29.4	39.2	39.2	39.2
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°	7240.2	7240.2	7240.2	7240.2	7240.2	7240.2	7240.2	7240.2	7240.2	7240.2	7240.2
2.5°	7279.4	7279.4	7196.1	7039.1	7014.6	6950.8	6891.9	6887.0	6842.9	6803.6	6784.0
5°	7416.8	7264.7	7142.1	6999.8	6833.1	6754.6	6666.3	6568.2	6528.9	6568.2	6563.3
7.5°	7573.8	7446.2	7078.3	6813.4	6622.1	6543.6	6445.5	6342.5	6352.3	6352.3	6283.7
10°	7725.8	7554.1	6965.5	6627.0	6347.4	6288.6	6234.6	6273.9	6322.9	6332.7	6288.6
12.5°	7980.9	7593.4	6911.5	6440.6	6264.0	6136.5	6170.8	6278.8	6381.8	6352.3	6386.7
15°	8172.2	7627.7	6666.3	6249.3	6028.6	6087.5	6210.1	6283.7	6455.4	6435.7	6470.1
17.5°	8358.6	7647.3	6425.9	5994.3	5901.1	6062.9	6156.1	6367.1	6421.0	6538.7	6582.9
20°	8741.2	7686.6	6180.7	5837.3	5807.9	5994.3	6156.1	6254.2	6372.0	6475.0	6475.0
22.5°	8937.4	7667.0	6018.8	5631.3	5724.5	5842.2	5989.4	6156.1	6156.1	6254.2	6259.1
25°	9182.7	7588.5	5763.7	5533.2	5601.8	5714.7	5881.4	5822.6	5886.3	5886.3	5964.8
27.5°	9462.3	7421.7	5543.0	5356.6	5493.9	5616.5	5641.1	5601.8	5528.3	5518.4	5489.0
30°	9687.9	7215.7	5381.1	5297.7	5410.5	5479.2	5400.7	5317.3	5189.8	5180.0	5111.3
32.5°	9997.0	6960.6	5180.0	5150.5	5278.1	5283.0	5258.5	5130.9	4944.5	4866.0	4787.6
35°	10516.9	6813.4	5027.9	5072.1	5111.3	5096.6	5052.4	4915.1	4728.7	4694.4	4664.9
37.5°	10899.5	6705.5	4870.9	4924.9	4959.2	4978.9	4846.4	4694.4	4699.3	4630.6	4611.0
40°	11331.2	6636.8	4743.4	4767.9	4772.8	4836.6	4674.7	4601.2	4635.5	4591.3	4620.8
42.5°	11885.5	6656.5	4611.0	4591.3	4684.5	4660.0	4581.5	4483.4	4503.1	4370.6	4390.2
45°	12179.8	6788.9	4532.5	4444.2	4547.2	4542.3	4439.3	4346.1	4228.4	3973.3	3983.1
47.5°	12376.0	6823.2	4346.1	4287.2	4395.1	4458.9	4341.2	4125.3	3958.6	3777.1	3732.9
50°	12577.1	6887.0	4257.8	4135.2	4179.3	4331.4	4184.2	3978.2	3816.3	3654.4	3679.0
52.5°	12753.7	7009.6	4086.1	3904.6	3983.1	4149.9	4071.4	3821.2	3644.6	3512.2	3472.9
55°	13538.6	7284.3	3796.7	3561.2	3747.6	3958.6	3914.4	3610.3	3419.0	3350.3	3340.5
56°	13661.2	7294.2	3644.6	3443.5	3615.2	3894.8	3840.8	3517.1	3345.4	3237.5	3242.4
57.5°	13680.8	7176.4	3428.8	3335.6	3482.8	3801.6	3732.9	3443.5	3208.1	3109.9	3080.5
60°	12037.6	5601.8	3159.0	3100.1	3271.8	3517.1	3492.6	3242.4	2977.5	2864.7	2918.6
62.5°	8206.5	4105.7	2948.1	2938.3	3026.6	3266.9	3203.1	2977.5	2756.8	2683.2	2648.9
65°	4777.7	3114.9	2742.1	2702.8	2776.4	2903.9	2948.1	2712.6	2482.1	2433.0	2418.3
67.5°	2820.5	2575.3	2477.2	2413.4	2388.9	2467.4	2501.7	2364.3	2133.8	2065.1	2124.0
70°	2359.4	2290.8	2295.7	2187.8	2128.9	2074.9	2045.5	1922.9	1731.6	1643.3	1618.7
72.5°	2035.7	2006.3	1986.6	1888.5	1834.6	1711.9	1584.4	1461.8	1319.5	1245.9	1250.8
75°	1555.0	1545.2	1555.0	1505.9	1412.7	1314.6	1196.9	1039.9	932.0	838.8	858.4
77.5°	927.1	956.5	971.2	951.6	912.4	824.1	750.5	647.5	544.5	470.9	461.1
80°	637.7	662.2	686.7	662.2	623.0	559.2	480.7	402.2	328.7	289.4	279.6
82.5°	485.6	510.1	524.9	500.3	451.3	382.6	328.7	274.7	215.8	176.6	166.8
85°	176.6	201.1	196.2	235.5	255.1	245.3	210.9	161.9	122.6	88.3	83.4
87.5°	49.1	44.1	49.1	49.1	49.1	44.1	39.2	39.2	39.2	24.5	19.6
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)