

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: P457344

Luminaire Tested: **GALN-SA8C-830-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457344
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45976 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 429
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

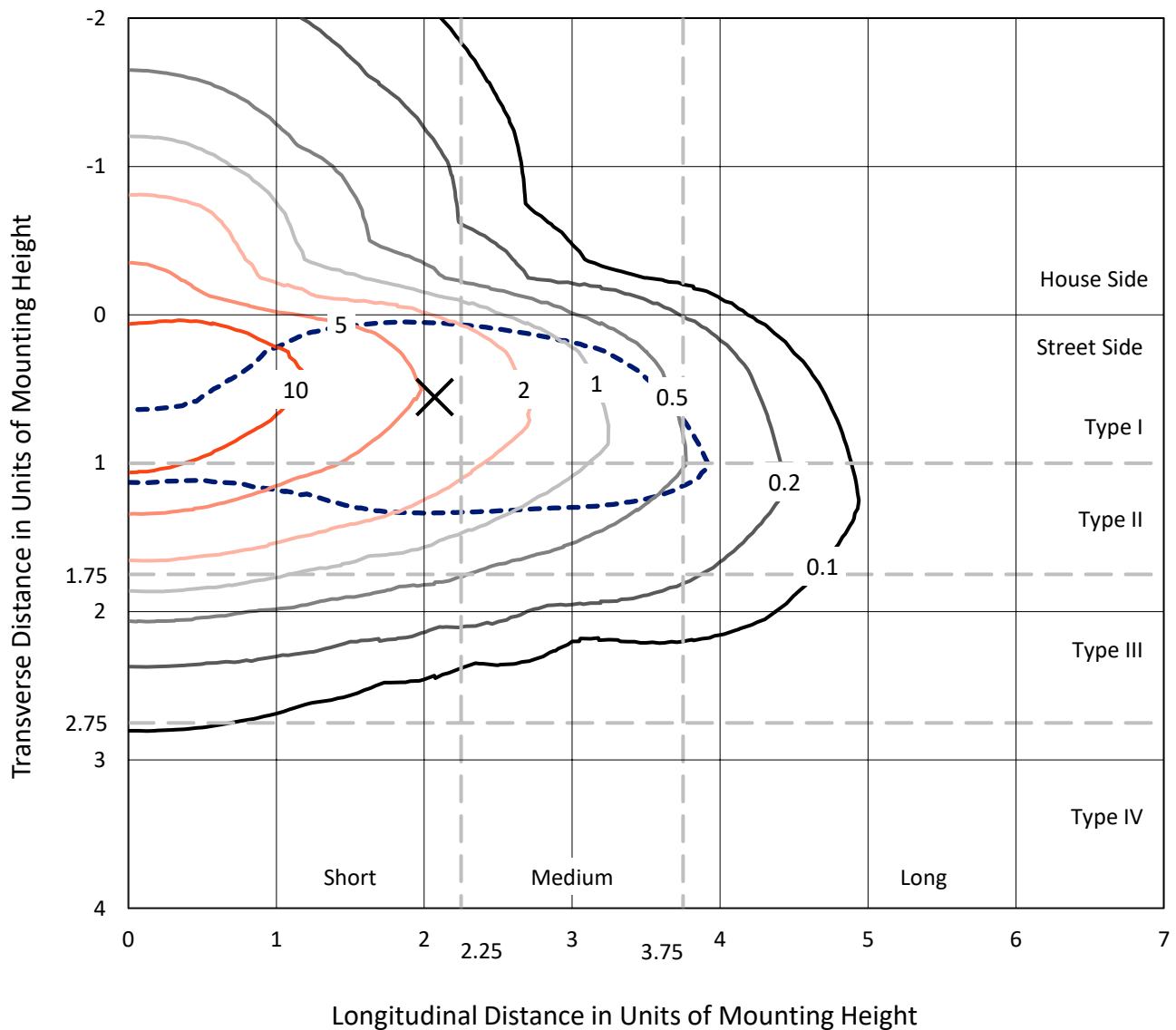


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

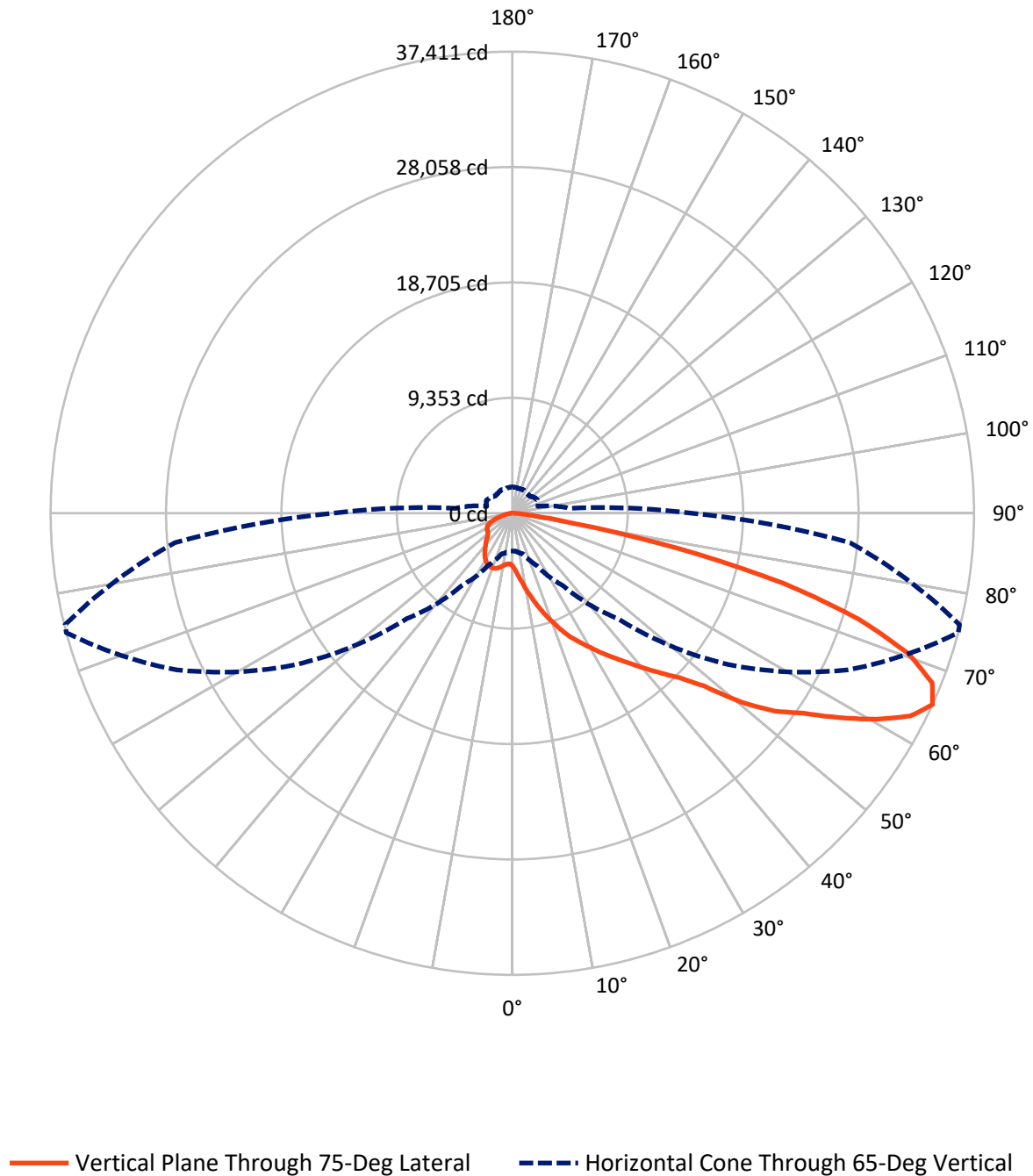


Based on 25 foot mounting height. Maximum calculated value = 17.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7729.2	0.0	7729.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	38246.8	0.0	38246.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	45976.0	0.0	45976.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.0	1.1
10°-20°	2032.9	4.4
20°-30°	3926.8	8.5
30°-40°	6378.3	13.9
40°-50°	8774.0	19.1
50°-60°	10359.1	22.5
60°-70°	9076.3	19.7
70°-80°	4333.1	9.4
80°-90°	576.6	1.3
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°	45976.0	100.0
0°-180°	45976.0	100.0

Coefficient of Utilization



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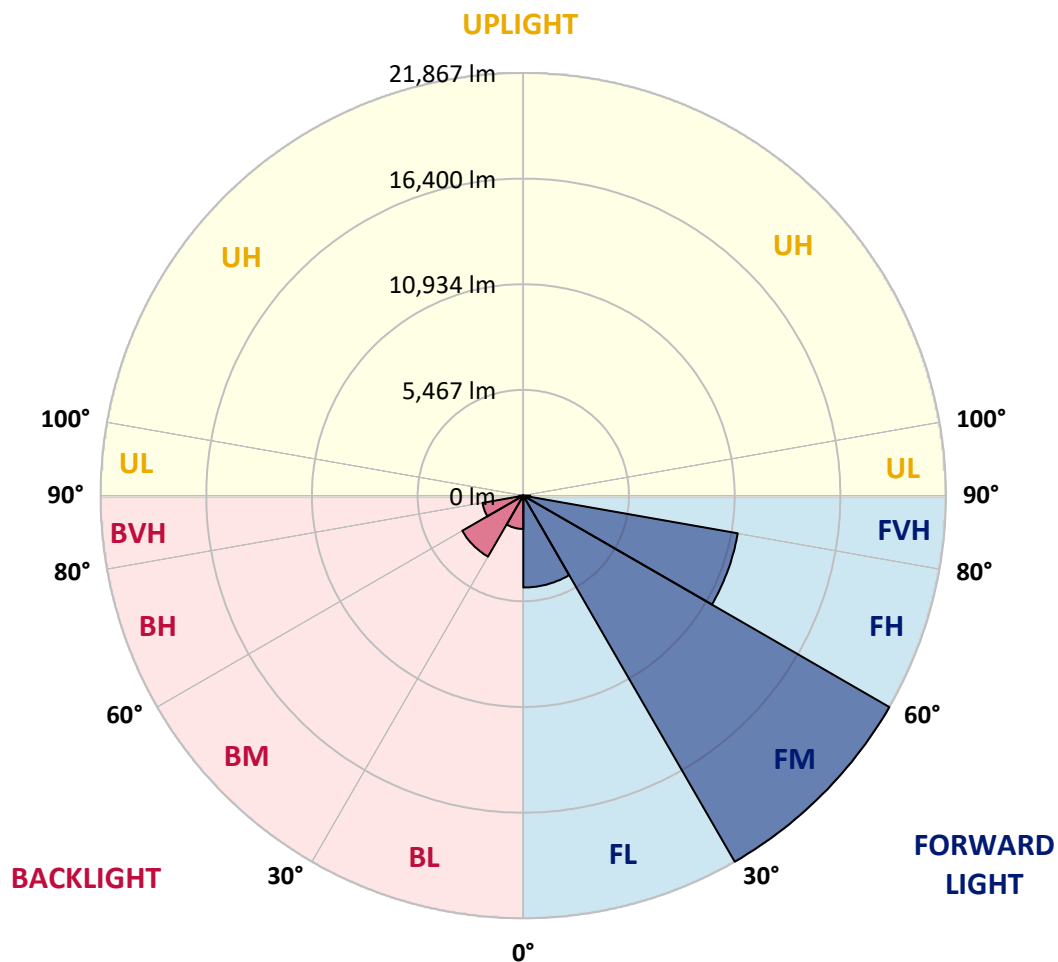
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4753.2	10.3			
FM	(30°-60°)	21867.2	47.6			
FH	(60°-80°)	11266.2	24.5			G4/12000
FVH	(80°-90°)	360.3	0.8			G3/500
BL	(0°-30°)	1725.5	3.8	B3/2500		
BM	(30°-60°)	3644.2	7.9	B3/5000		
BH	(60°-80°)	2143.1	4.7	B3/2500		G3/2500
BVH	(80°-90°)	216.3	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4271.8	4271.8	4271.8	4271.8	4271.8	4271.8	4271.8	4271.8	4271.8	4271.8	4271.8
2.5°	5675.7	5638.3	5598.4	5488.7	5371.5	5239.3	5049.8	4867.8	4625.9	4618.4	4438.8
5°	7249.3	7224.3	7047.3	6945.0	6673.2	6311.6	6004.9	5528.6	5087.2	5034.8	4685.7
7.5°	8695.6	8598.4	8531.0	8346.5	8077.2	7613.3	7019.8	6376.5	5638.3	5568.5	4989.9
10°	9785.4	9775.4	9740.5	9580.9	9378.9	8917.6	8259.2	7336.5	6336.6	6199.4	5359.0
12.5°	10600.8	10608.3	10603.3	10600.8	10456.2	10064.7	9351.5	8378.9	7042.3	6945.0	5785.4
15°	11137.0	11211.8	11241.7	11366.4	11378.9	11117.0	10503.6	9386.4	7837.8	7693.1	6244.3
17.5°	11491.1	11528.5	11668.1	11880.1	12052.2	12004.8	11458.7	10319.0	8650.7	8408.8	6720.6
20°	11830.2	11895.1	12002.3	12291.6	12595.8	12735.5	12351.4	11274.1	9456.2	9301.6	7246.8
22.5°	12536.0	12628.2	12665.6	12812.8	13072.1	13319.0	13144.4	12189.3	10339.0	10129.5	7805.4
25°	13730.5	13827.7	13723.0	13688.1	13772.8	13895.0	13857.6	13052.2	11171.9	10872.6	8334.0
27.5°	15286.5	15299.0	15094.5	14900.0	14690.5	14628.2	14513.5	13817.7	11895.1	11645.7	8865.2
30°	16957.3	16897.5	16558.3	16206.7	15852.6	15503.5	15174.3	14555.9	12700.5	12413.8	9386.4
32.5°	18508.4	18476.0	18099.5	17553.3	16954.8	16625.7	15959.8	15301.5	13563.4	13286.6	9922.5
35°	19670.5	19717.9	19303.9	18707.9	18054.6	17762.8	16922.4	16084.5	14456.1	14154.4	10506.1
37.5°	20495.9	20471.0	20104.4	19588.2	19014.7	18760.3	18047.1	16939.9	15416.2	15126.9	11144.5
40°	20790.2	20775.2	20503.4	20126.9	19762.8	19673.0	19224.1	17862.6	16515.9	16176.8	11912.5
42.5°	20603.2	20635.6	20456.0	20353.8	20286.5	20351.3	20393.7	19072.0	17715.4	17403.7	12745.4
45°	20029.6	20012.1	19987.2	20154.3	20533.3	20959.8	21550.8	20214.1	19019.6	18770.3	13862.6
47.5°	19004.7	19129.4	19191.7	19653.0	20481.0	21490.9	22882.4	21745.3	20912.4	20695.4	15565.8
50°	17570.8	17670.5	18039.6	18860.0	20094.4	21690.4	24184.1	24249.0	24069.4	23663.0	17416.2
52.5°	15331.4	15486.0	16246.6	17750.3	19301.4	21608.1	24972.2	26396.1	26633.0	26328.7	19239.1
55°	12825.2	13042.2	13845.2	15817.7	18209.2	21159.3	25515.8	27640.4	28585.6	28303.8	20994.7
57.5°	10371.4	10600.8	11426.2	13336.4	16304.0	20166.8	25872.4	29027.0	31243.9	30877.3	23179.2
60°	7772.9	8012.3	8720.6	10688.1	13590.8	18226.6	25630.5	30228.9	33899.7	33742.6	25366.2
62.5°	5014.9	5279.2	5895.2	7523.6	10446.2	15575.8	24336.3	30892.3	36198.9	36009.4	26962.2
65°	3054.8	3084.7	3423.9	4670.7	7149.5	12059.7	21376.2	30012.0	37410.9	37353.5	27448.4
67.5°	1975.0	2022.4	2177.0	2798.0	4286.7	8376.4	17092.0	27106.8	36702.6	36682.7	26443.5
70°	1668.3	1683.3	1753.1	1887.7	2491.2	5079.7	12002.3	22475.9	34011.9	34011.9	24027.0
72.5°	1491.2	1511.2	1536.1	1578.5	1778.0	2877.8	7162.0	17496.0	29366.1	29560.6	20451.0
75°	1354.1	1349.1	1364.1	1371.5	1516.2	1880.3	3703.2	12939.9	22717.8	22328.8	14810.2
77.5°	1159.6	1167.1	1159.6	1192.0	1339.1	1431.4	1880.3	8683.2	13767.9	13264.1	7433.8
80°	952.6	965.1	977.5	997.5	1144.6	1087.3	1129.7	3957.5	5092.2	4985.0	2296.7
82.5°	715.7	733.2	753.1	800.5	900.2	718.2	713.2	1690.7	1837.9	1683.3	845.4
85°	289.3	341.6	516.2	563.6	566.1	394.0	438.9	705.7	750.6	733.2	331.7
87.5°	67.3	79.8	167.1	251.9	231.9	147.1	162.1	229.4	261.8	241.9	112.2
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°	4271.8	4271.8	4271.8	4271.8	4271.8	4271.8	4271.8	4271.8	4271.8	4271.8	4271.8
2.5°	4356.5	4269.3	4119.6	4004.9	3922.6	3850.3	3805.4	3778.0	3768.0	3765.5	3768.0
5°	4503.7	4349.1	4112.2	3962.5	3880.2	3832.9	3805.4	3802.9	3805.4	3807.9	3800.4
7.5°	4705.7	4483.7	4174.5	4034.8	3972.5	3937.6	3925.1	3920.1	3922.6	3920.1	3920.1
10°	4975.0	4670.7	4296.7	4152.1	4099.7	4059.8	4039.8	4027.4	4017.4	4007.4	4002.4
12.5°	5271.7	4877.7	4428.9	4289.2	4214.4	4152.1	4107.2	4074.7	4052.3	4029.9	4024.9
15°	5603.4	5097.2	4576.0	4381.5	4274.2	4182.0	4104.7	4052.3	4012.4	3980.0	3977.5
17.5°	5920.1	5304.2	4675.7	4423.9	4266.8	4137.1	4034.8	3962.5	3912.7	3870.3	3865.3
20°	6259.2	5501.2	4720.6	4396.4	4192.0	4034.8	3900.2	3812.9	3755.5	3708.2	3700.7
22.5°	6600.9	5668.2	4715.6	4309.2	4062.3	3877.7	3735.6	3643.3	3576.0	3528.6	3511.2
25°	6927.6	5802.9	4653.3	4169.5	3882.7	3690.7	3546.1	3461.3	3401.4	3344.1	3344.1
27.5°	7221.8	5882.7	4536.1	3999.9	3698.2	3496.2	3381.5	3304.2	3249.3	3211.9	3189.5
30°	7511.1	5920.1	4376.5	3785.5	3503.7	3331.6	3239.3	3194.5	3144.6	3102.2	3097.2
32.5°	7770.4	5912.6	4177.0	3576.0	3319.1	3197.0	3159.5	3124.6	3072.3	3012.4	2997.5
35°	8022.3	5862.7	3940.1	3346.6	3164.5	3117.2	3127.1	3077.3	2982.5	2907.7	2895.2
37.5°	8296.6	5773.0	3680.7	3159.5	3034.9	3079.8	3104.7	2995.0	2840.4	2723.1	2695.7
40°	8613.3	5670.7	3411.4	2972.5	2932.6	3044.8	3044.8	2842.8	2630.9	2558.6	2538.6
42.5°	8984.9	5585.9	3187.0	2815.4	2847.8	2960.1	2947.6	2640.9	2553.6	2516.2	2506.2
45°	9573.4	5556.0	2955.1	2678.3	2778.0	2860.3	2758.1	2571.0	2521.2	2491.2	2481.3
47.5°	10503.6	5590.9	2750.6	2576.0	2698.2	2760.6	2546.1	2523.6	2488.7	2446.3	2441.4
50°	11366.4	5558.5	2605.9	2518.7	2628.4	2640.9	2458.8	2466.3	2446.3	2399.0	2389.0
52.5°	12072.1	5456.3	2513.7	2488.7	2568.5	2431.4	2376.5	2404.0	2396.5	2336.6	2326.6
55°	12847.7	5393.9	2468.8	2488.7	2528.6	2249.3	2299.2	2339.1	2329.1	2286.7	2284.3
57.5°	13787.8	5406.4	2436.4	2496.2	2488.7	2157.1	2221.9	2269.3	2266.8	2254.3	2254.3
60°	14750.4	5411.4	2386.5	2493.7	2441.4	2084.8	2142.1	2209.4	2214.4	2221.9	2221.9
62.5°	15069.6	5194.4	2289.2	2448.8	2336.6	2014.9	2067.3	2159.6	2154.6	2174.5	2177.0
65°	14473.6	4593.4	2144.6	2346.6	2202.0	1965.1	2009.9	2094.7	2067.3	2119.7	2129.6
67.5°	13174.3	3800.4	1920.2	2162.1	2052.3	1912.7	1972.5	2005.0	1955.1	2057.3	2059.8
70°	11386.3	2967.5	1635.9	1900.2	1882.8	1857.8	1942.6	1892.7	1822.9	1947.6	1922.7
72.5°	9521.0	2266.8	1306.7	1553.6	1655.8	1775.5	1890.2	1748.1	1650.8	1688.3	1643.4
75°	7152.0	1675.8	1049.9	1216.9	1379.0	1658.3	1842.9	1573.5	1423.9	1389.0	1379.0
77.5°	3645.8	1094.7	785.5	910.2	1034.9	1498.7	1778.0	1369.1	1179.5	1124.7	1099.7
80°	1301.7	680.8	553.6	628.4	698.2	1289.3	1553.6	1132.2	915.2	905.2	915.2
82.5°	603.5	438.9	371.6	411.5	414.0	860.3	1184.5	845.4	695.7	1057.3	892.8
85°	259.3	219.4	209.5	204.5	189.5	384.0	665.8	453.9	708.2	316.7	291.8
87.5°	77.3	87.3	77.3	57.4	42.4	42.4	67.3	24.9	17.5	12.5	12.5
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)