

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: P459488

Luminaire Tested: **GALN-SA9B-735-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459488  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-735-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48328 lumens  
Efficiency: N/A  
Efficacy: 132.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5

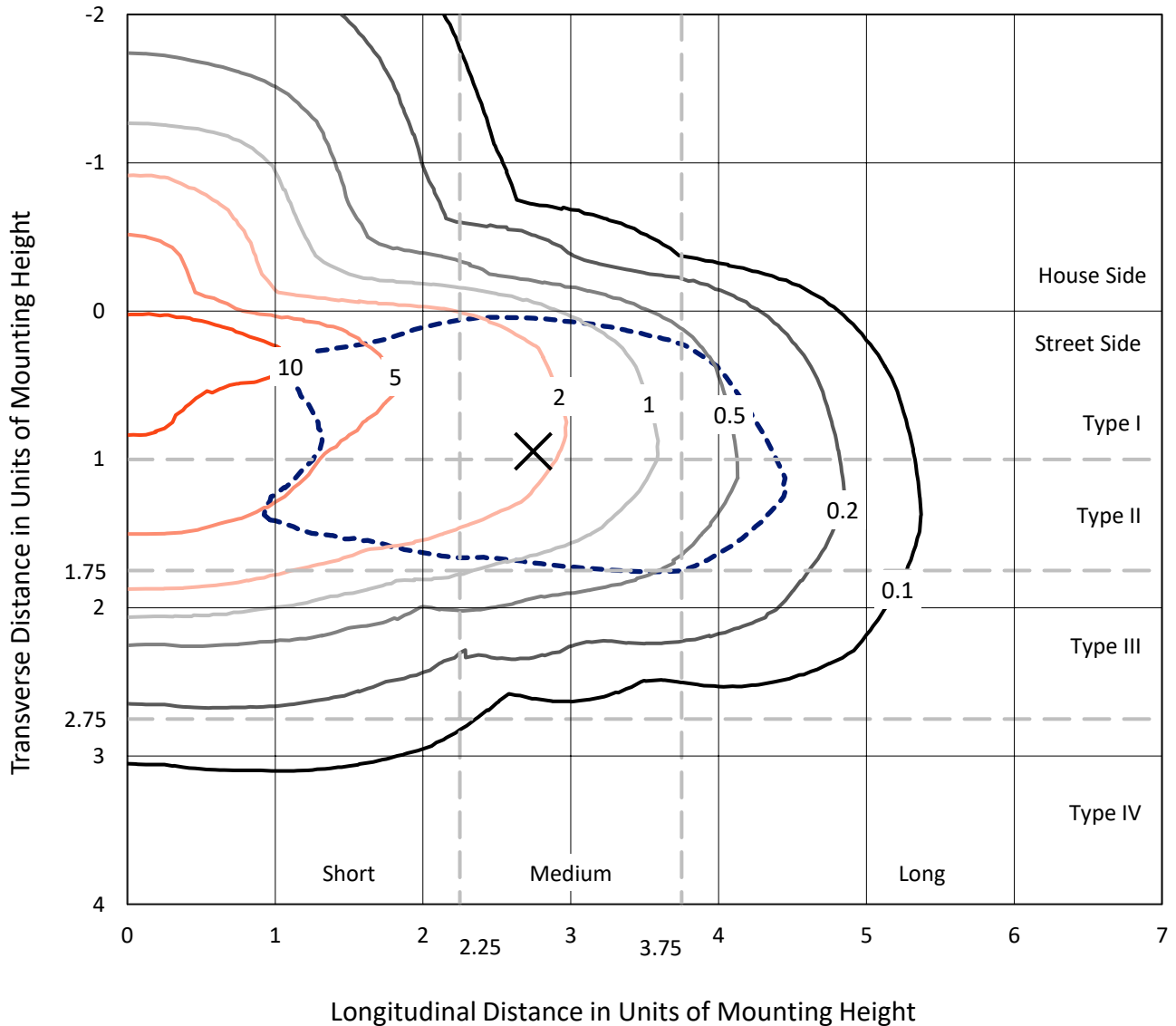
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

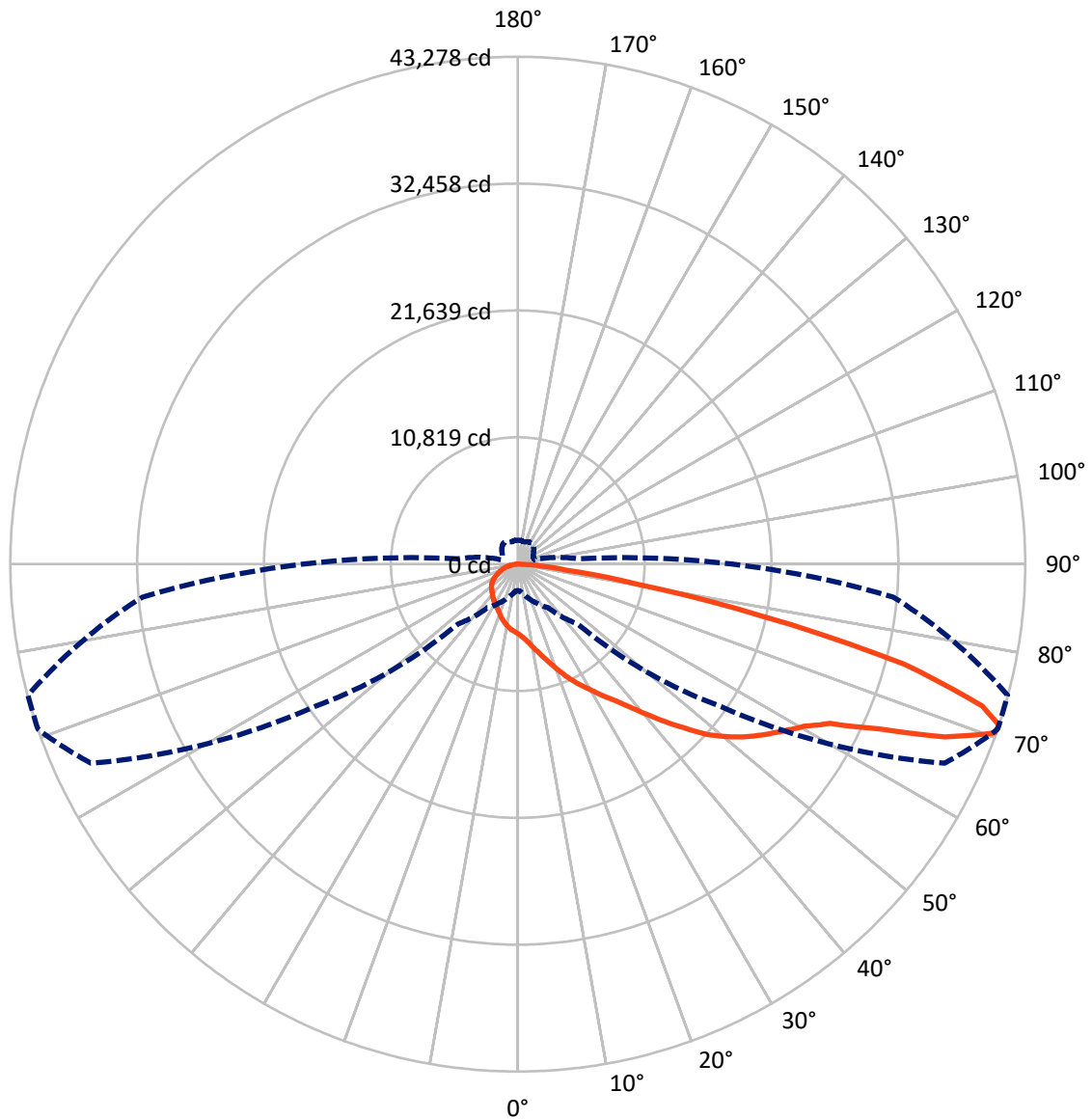
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8691.7	0.0	8691.7
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	39636.3	0.0	39636.3
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	48328.0	0.0	48328.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	595.5	1.2
10°-20°	1934.9	4.0
20°-30°	3381.4	7.0
30°-40°	5029.3	10.4
40°-50°	7410.1	15.3
50°-60°	10374.2	21.5
60°-70°	11603.2	24.0
70°-80°	7087.7	14.7
80°-90°	911.8	1.9
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°	48328.0	100.0
0°-180°	48328.0	100.0

**Coefficient of Utilization**



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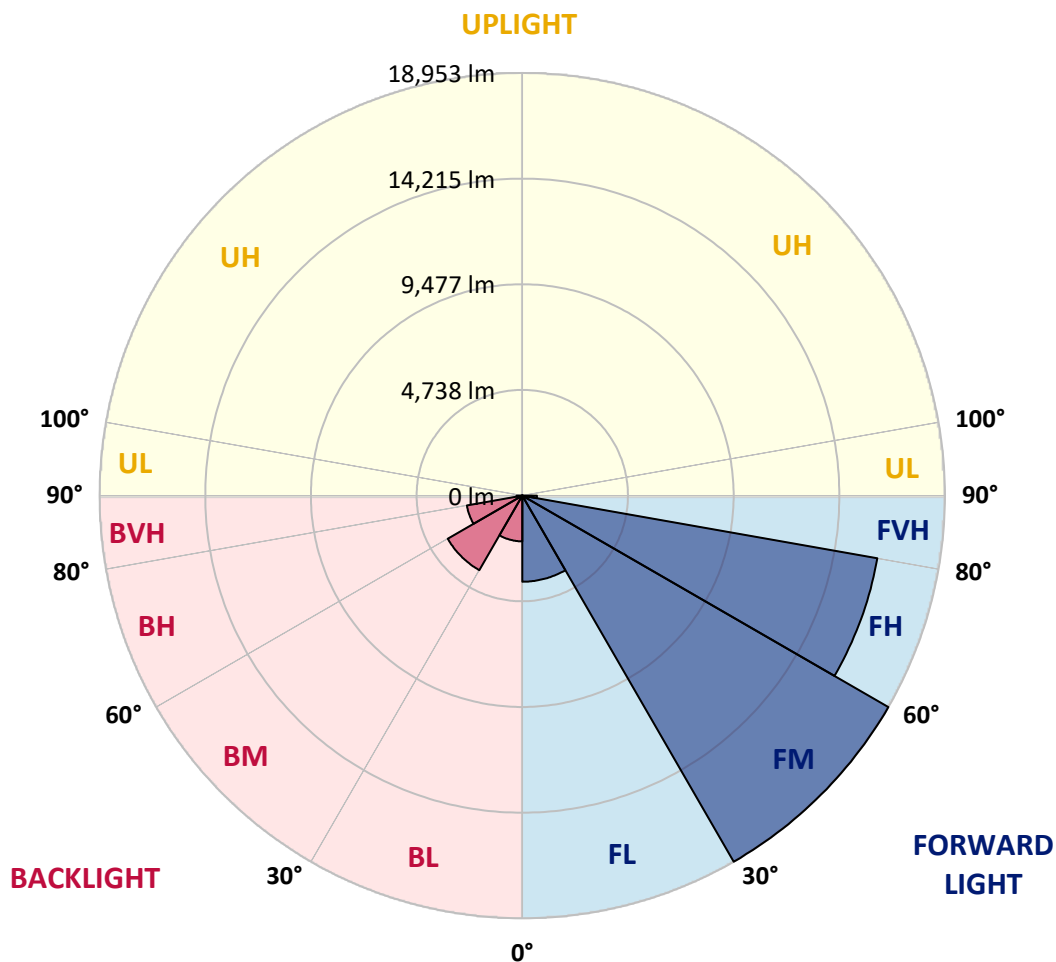
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3861.4	8.0			
FM	(30°-60°)	18953.3	39.2			
FH	(60°-80°)	16165.6	33.4			G5
FVH	(80°-90°)	656.0	1.4			G4/750
BL	(0°-30°)	2050.3	4.2	B3/2500		
BM	(30°-60°)	3860.3	8.0	B3/5000		
BH	(60°-80°)	2525.3	5.2	B4/5000		G4/5000
BVH	(80°-90°)	255.7	0.5			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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	5931.3	5931.3	5931.3	5931.3	5931.3	5931.3	5931.3	5931.3	5931.3	5931.3	5931.3
2.5°	6584.7	6552.9	6555.5	6510.4	6451.9	6388.2	6297.9	6218.2	6154.4	6117.2	6008.3
5°	7296.6	7264.7	7224.9	7126.6	7084.1	6927.4	6728.2	6547.5	6409.4	6332.4	6114.6
7.5°	7873.0	7865.0	7854.4	7798.6	7689.7	7471.9	7301.9	6988.5	6784.0	6637.9	6266.0
10°	8228.9	8242.2	8250.2	8260.8	8215.6	8101.4	7867.7	7471.9	7211.6	7025.7	6462.5
12.5°	8409.5	8422.8	8468.0	8566.3	8627.4	8614.1	8422.8	8035.0	7676.4	7432.1	6672.4
15°	8521.1	8542.4	8622.0	8752.2	8956.7	9086.9	8993.9	8635.3	8242.2	7952.7	6922.1
17.5°	8643.3	8667.2	8754.9	8940.8	9209.1	9490.6	9591.6	9283.4	8855.8	8510.5	7201.0
20°	8712.4	8744.2	8869.1	9113.4	9426.9	9835.9	10170.6	10008.6	9541.1	9158.6	7522.4
22.5°	8823.9	8850.5	8956.7	9217.0	9591.6	10104.2	10749.7	10715.1	10303.4	9809.4	7875.7
25°	9126.7	9169.2	9222.3	9379.1	9740.3	10377.8	11230.4	11469.5	11041.8	10489.4	8199.7
27.5°	9697.8	9732.3	9729.7	9750.9	9955.5	10614.2	11647.5	12215.9	11775.0	11177.3	8513.1
30°	10348.6	10361.9	10372.5	10324.7	10369.8	10855.9	12030.0	12954.3	12513.4	11883.9	8786.7
32.5°	11140.1	11166.7	11076.4	10954.2	10917.0	11214.5	12346.0	13692.7	13387.3	12601.0	9057.7
35°	12075.1	12144.2	11960.9	11745.7	11594.3	11729.8	12771.0	14447.1	14282.4	13517.4	9416.3
37.5°	13142.9	13227.9	13057.9	12635.6	12420.4	12457.6	13326.2	15379.4	15414.0	14561.3	9950.1
40°	14016.8	14128.4	14133.7	13536.0	13209.3	13251.8	14030.1	16383.5	16779.3	15852.2	10579.7
42.5°	14593.2	14702.1	14816.3	14465.7	14123.0	14364.8	14850.8	17472.5	18314.5	17419.4	11458.9
45°	15225.4	15323.7	15387.4	15228.0	15036.8	15663.6	15841.6	18630.6	19950.8	19169.8	12420.4
47.5°	15958.5	16067.4	16128.5	15977.1	15905.4	16803.2	16909.4	19711.7	21698.5	20869.8	13482.9
50°	16936.0	17018.3	16986.4	16890.8	16874.9	17677.1	17934.7	20723.7	23140.9	22699.9	14585.2
52.5°	18152.5	18250.8	18285.3	18149.9	18088.8	18301.3	18760.8	21645.4	24453.0	24272.4	15761.9
55°	18888.3	19045.0	19570.9	19783.4	19929.5	19108.7	19650.6	22662.8	25629.7	25929.9	17026.3
57.5°	17945.3	18147.2	19323.9	20386.4	21759.6	21127.5	20912.3	23725.2	26806.4	27536.9	18540.3
60°	15645.1	15690.2	17206.9	19164.5	21927.0	23722.6	23544.6	25414.6	28081.4	29157.2	20535.1
62.5°	10853.3	10948.9	12741.8	15865.5	19860.5	24657.6	28023.0	28331.1	29908.9	31582.3	23459.6
65°	5596.6	5471.8	7105.4	9971.4	14973.0	22437.0	31651.4	33694.0	33871.9	35375.4	27576.7
67.5°	3445.1	3500.9	4265.9	5822.4	8853.1	16306.5	31271.5	40246.8	39309.2	40031.7	31399.0
70°	2587.1	2656.2	3182.1	3984.3	5397.4	9323.3	25149.0	41835.2	43144.8	42958.8	32562.4
71°	2249.8	2321.5	2868.7	3625.7	4534.1	7195.7	21188.6	40172.5	43277.6	43245.7	32124.2
72.5°	1917.8	1962.9	2390.6	3070.6	3822.3	5044.1	15918.6	36028.8	41431.5	42491.3	30559.7
75°	1506.1	1540.6	1731.8	2342.8	3009.5	3097.1	8542.4	27011.0	34028.7	36047.4	25441.1
77.5°	1227.2	1251.1	1349.4	1739.8	2321.5	2194.0	4481.0	17581.4	21318.7	23350.7	14986.3
80°	974.8	1001.4	1059.8	1179.4	1739.8	1564.5	2138.2	8908.9	10298.1	10276.9	5981.8
82.5°	757.0	765.0	834.0	865.9	1190.0	1110.3	1158.1	3771.8	4178.2	4316.3	2159.5
85°	478.1	502.0	738.4	664.1	711.9	650.8	571.1	1498.1	1846.1	1819.5	863.3
87.5°	146.1	154.1	249.7	281.6	316.1	284.2	209.8	440.9	539.2	584.4	215.2
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°	5931.3	5931.3	5931.3	5931.3	5931.3	5931.3	5931.3	5931.3	5931.3	5931.3	5931.3
2.5°	5965.8	5936.6	5833.0	5748.0	5668.3	5580.7	5506.3	5485.1	5466.5	5458.5	5455.8
5°	6021.6	5934.0	5729.4	5562.1	5429.3	5307.1	5230.1	5195.5	5161.0	5161.0	5171.6
7.5°	6101.3	5941.9	5625.8	5376.2	5208.8	5094.6	5038.8	5033.5	5041.5	5049.4	5052.1
10°	6189.0	5936.6	5474.4	5163.7	5014.9	4961.8	4964.4	5009.6	5052.1	5084.0	5089.3
12.5°	6274.0	5904.7	5296.5	4964.4	4868.8	4879.5	4953.8	5054.8	5137.1	5182.3	5184.9
15°	6369.6	5854.3	5081.3	4775.9	4744.0	4826.3	4964.4	5118.5	5243.4	5317.7	5325.7
17.5°	6449.3	5769.3	4855.5	4592.6	4632.4	4783.8	4975.1	5174.3	5325.7	5418.7	5434.6
20°	6539.6	5660.4	4621.8	4417.3	4531.5	4736.0	4953.8	5169.0	5325.7	5416.0	5437.3
22.5°	6611.3	5506.3	4398.7	4273.8	4441.2	4677.6	4882.1	5054.8	5182.3	5230.1	5261.9
25°	6640.5	5312.4	4188.8	4157.0	4369.5	4582.0	4720.1	4818.4	4858.2	4852.9	4866.2
27.5°	6624.6	5089.3	4008.2	4064.0	4279.1	4433.2	4502.3	4494.3	4422.6	4356.2	4388.1
30°	6558.2	4823.7	3856.8	3968.4	4162.3	4247.3	4236.6	4133.1	3997.6	3872.7	3880.7
32.5°	6438.6	4536.8	3716.0	3859.5	3997.6	4034.8	3963.1	3827.6	3633.7	3471.7	3447.8
35°	6337.7	4263.2	3591.2	3734.6	3832.9	3814.3	3745.3	3569.9	3394.6	3251.2	3227.3
37.5°	6321.8	4029.5	3471.7	3593.8	3649.6	3623.1	3538.1	3389.3	3325.6	3216.7	3203.4
40°	6406.8	3864.8	3349.5	3445.1	3471.7	3450.4	3357.4	3272.4	3330.9	3304.3	3304.3
42.5°	6637.9	3777.1	3240.6	3296.4	3317.6	3333.5	3267.1	3195.4	3267.1	3144.9	3105.1
45°	7004.4	3779.8	3142.3	3150.3	3214.0	3269.8	3224.6	3118.4	3081.2	2836.8	2789.0
47.5°	7543.6	3870.1	3062.6	3012.1	3126.4	3219.3	3155.6	3001.5	2836.8	2674.8	2645.6
50°	8173.1	4032.1	2990.9	2868.7	3009.5	3155.6	3107.8	2927.1	2757.1	2658.9	2640.3
52.5°	8871.7	4236.6	2903.2	2709.3	2866.0	3126.4	3118.4	2916.5	2682.8	2616.4	2600.4
55°	9735.0	4438.5	2794.3	2523.4	2738.5	3102.4	3089.2	2828.9	2666.8	2619.0	2613.7
57.5°	10739.0	4730.7	2637.6	2334.8	2592.5	3004.2	2975.0	2775.7	2613.7	2579.2	2576.5
60°	12356.7	5184.9	2414.5	2162.2	2443.7	2831.5	2868.7	2685.4	2528.7	2520.7	2518.1
62.5°	14484.3	5822.4	2183.4	1984.2	2271.1	2608.4	2714.6	2563.2	2438.4	2478.2	2483.6
65°	17422.1	6359.0	1944.3	1832.8	2079.8	2393.2	2568.6	2449.0	2337.5	2414.5	2414.5
67.5°	19337.2	6369.6	1726.5	1676.1	1885.9	2212.6	2414.5	2313.6	2207.3	2337.5	2342.8
70°	18938.8	5580.7	1545.9	1511.4	1697.3	2018.7	2244.5	2164.8	2042.6	2159.5	2117.0
71°	18295.9	5142.4	1474.2	1447.6	1622.9	1925.7	2164.8	2098.4	1976.2	2053.2	2029.3
72.5°	17270.7	4465.1	1357.3	1362.6	1511.4	1808.9	2053.2	1984.2	1862.0	1904.5	1896.5
75°	14598.5	3899.3	1160.8	1184.7	1298.9	1609.7	1830.1	1777.0	1652.2	1652.2	1644.2
77.5°	9126.7	2725.3	964.2	977.5	1102.3	1378.6	1572.5	1527.3	1407.8	1367.9	1357.3
80°	3405.3	1407.8	754.4	770.3	847.3	1086.4	1301.5	1259.0	1136.9	1091.7	1049.2
82.5°	1288.3	706.6	555.1	541.9	624.2	828.7	1020.0	969.5	873.9	765.0	733.1
85°	486.1	350.6	340.0	329.4	366.6	491.4	632.2	621.6	520.6	443.6	435.6
87.5°	127.5	114.2	132.8	98.3	103.6	93.0	95.6	39.8	18.6	8.0	5.3
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)