

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: P458013

Luminaire Tested: **GALN-SA9B-827-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458013  
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-SA9B-827-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37605 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

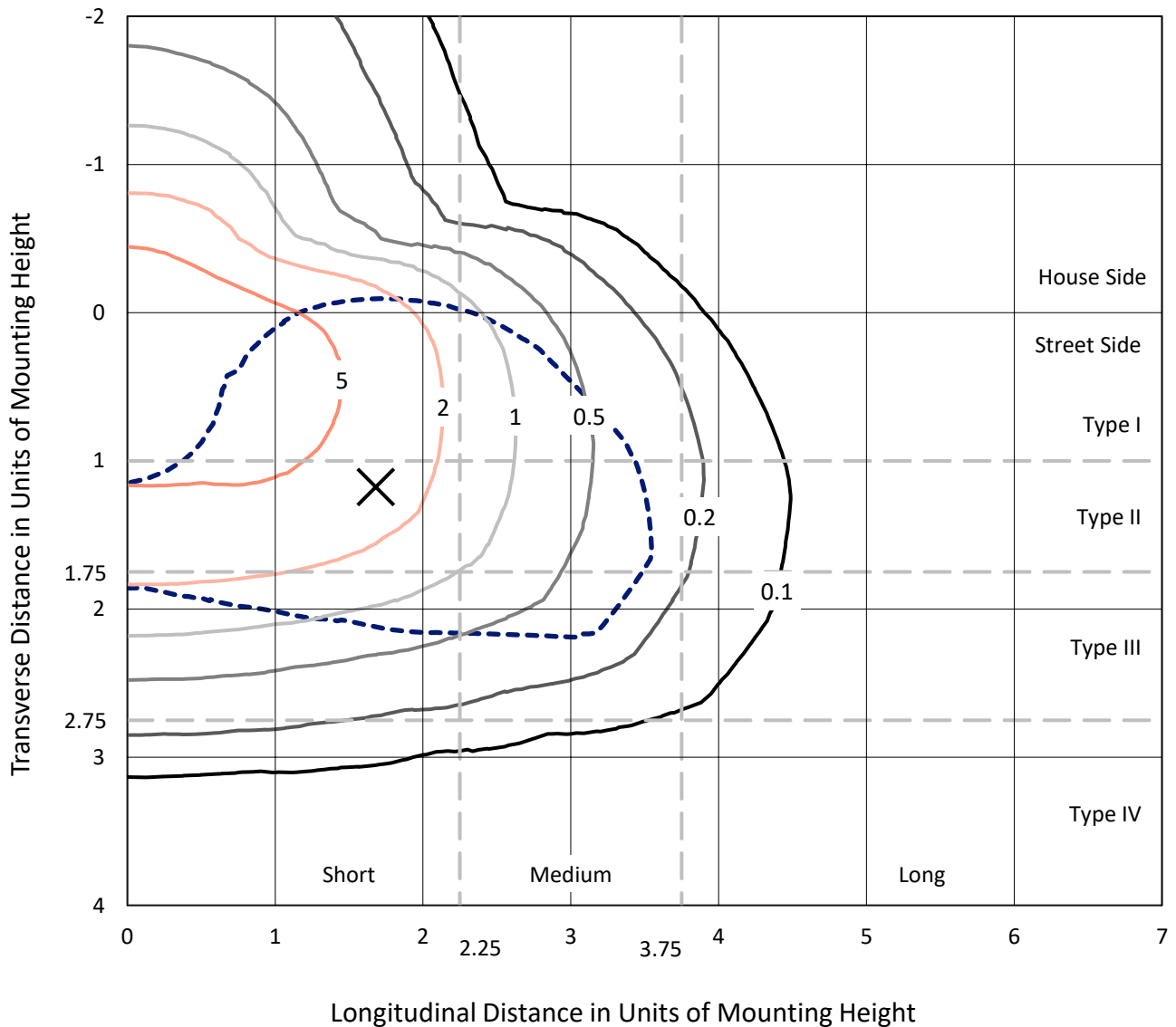
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

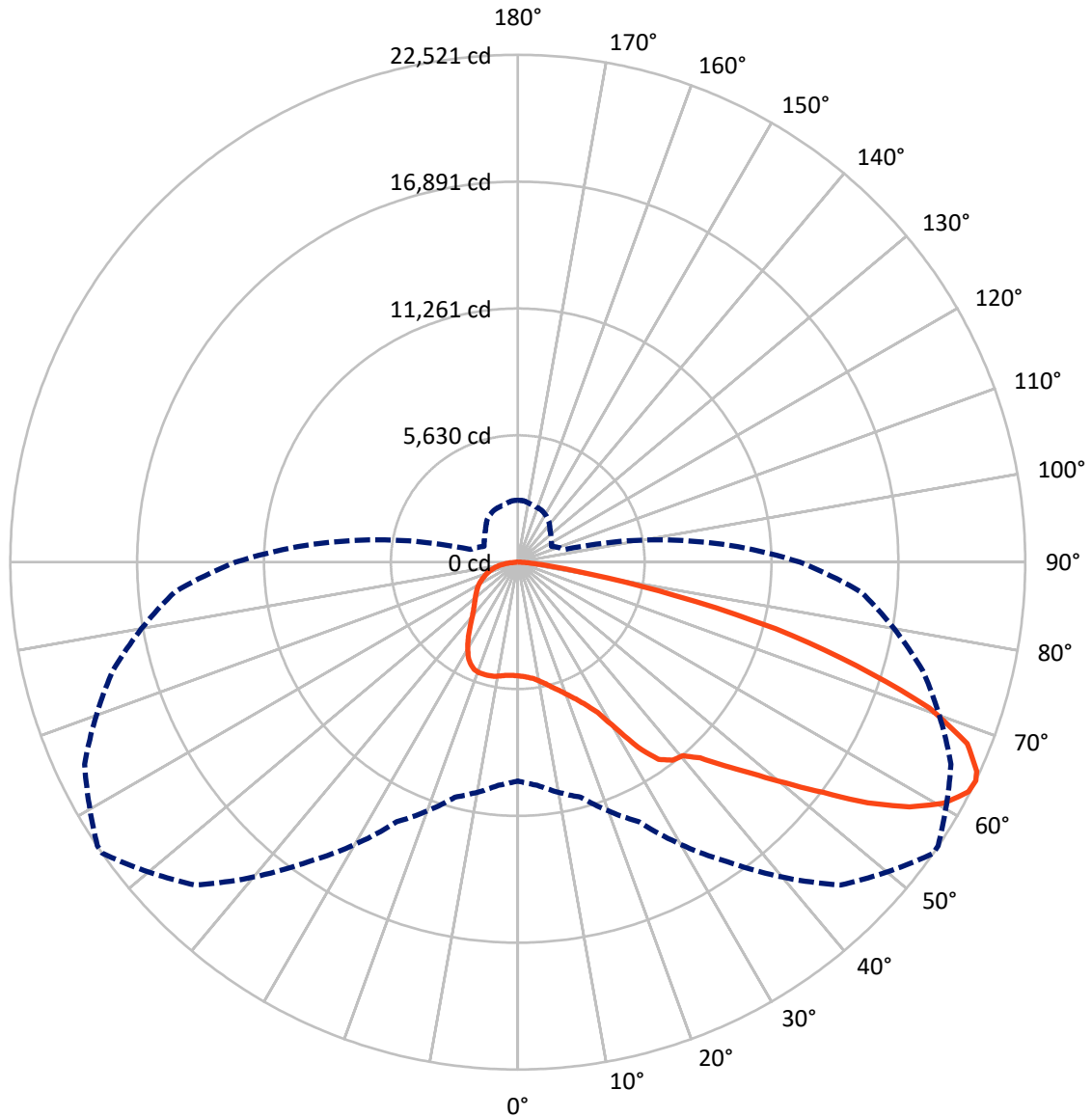
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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
<b>House Side</b>	Lumens	9135.0	0.0	9135.0
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	28470.0	0.0	28470.0
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	37605.0	0.0	37605.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	490.8	1.3
10°-20°	1548.6	4.1
20°-30°	2756.9	7.3
30°-40°	4241.8	11.3
40°-50°	6013.1	16.0
50°-60°	8703.8	23.1
60°-70°	9007.5	24.0
70°-80°	4218.2	11.2
80°-90°	624.5	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°	37605.0	100.0
0°-180°	37605.0	100.0

**Coefficient of Utilization**



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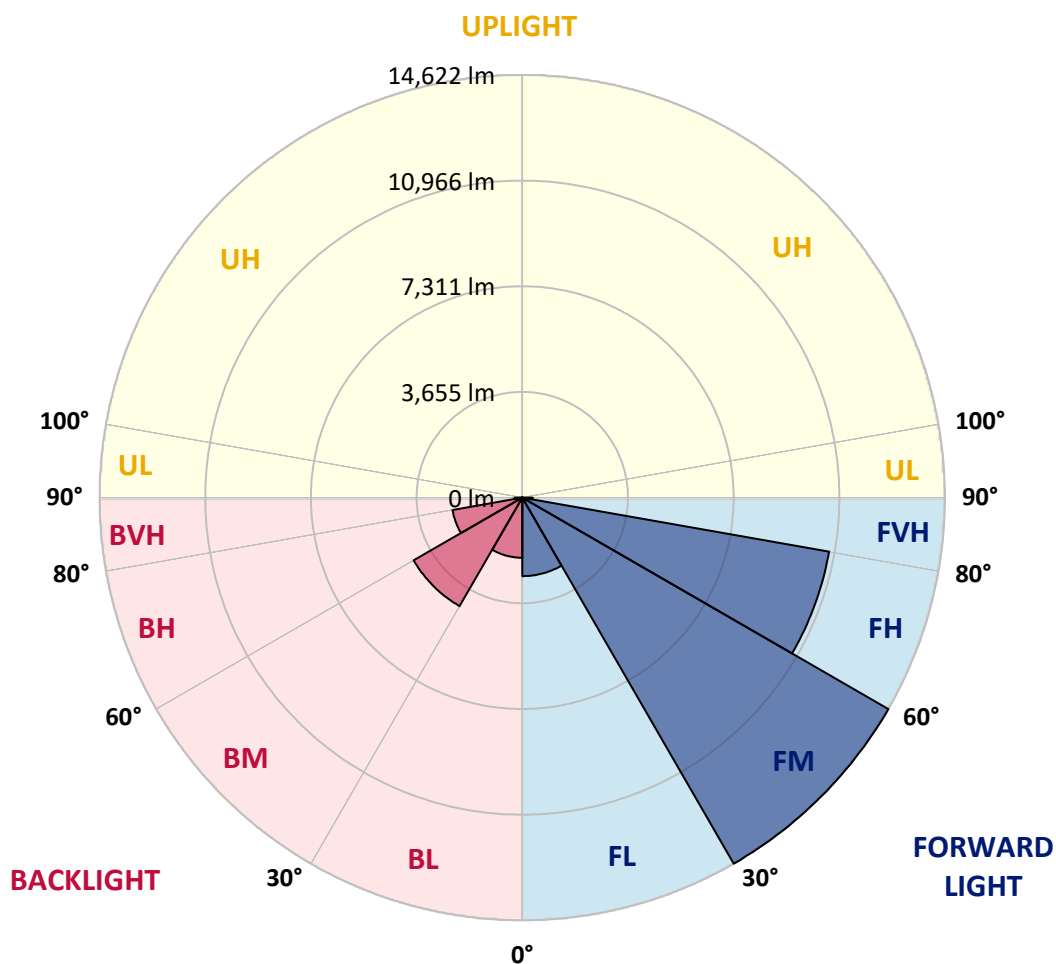
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2715.7	7.2			
FM	(30°-60°)	14621.8	38.9			
FH	(60°-80°)	10774.9	28.7			G4/12000
FVH	(80°-90°)	357.5	1.0			G3/500
BL	(0°-30°)	2080.6	5.5	B3/2500		
BM	(30°-60°)	4336.7	11.5	B3/5000		
BH	(60°-80°)	2450.7	6.5	B3/2500		G3/2500
BVH	(80°-90°)	266.9	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5045.5	5045.5	5045.5	5045.5	5045.5	5045.5	5045.5	5045.5	5045.5	5045.5	5045.5
2.5°	5102.1	5100.0	5106.2	5100.0	5104.1	5089.5	5083.2	5087.4	5081.1	5070.6	5051.7
5°	5164.9	5162.8	5164.9	5156.6	5160.7	5152.4	5137.7	5141.9	5131.4	5108.3	5081.1
7.5°	5271.8	5263.5	5263.5	5261.4	5253.0	5240.4	5229.9	5225.7	5215.2	5185.9	5144.0
10°	5410.2	5410.2	5412.3	5395.5	5406.0	5382.9	5372.5	5370.4	5334.7	5297.0	5238.3
12.5°	5592.6	5603.0	5596.7	5588.4	5584.2	5575.8	5540.1	5548.5	5508.7	5443.7	5372.5
15°	5818.9	5835.7	5825.2	5821.0	5810.6	5779.1	5764.4	5758.2	5705.7	5611.4	5517.1
17.5°	6118.7	6097.7	6089.3	6078.9	6034.8	6011.8	5986.6	5982.4	5936.3	5825.2	5678.5
20°	6380.7	6410.1	6393.3	6382.8	6338.8	6294.8	6275.9	6269.6	6229.8	6108.2	5873.4
22.5°	6693.0	6699.3	6705.6	6680.5	6659.5	6626.0	6592.4	6581.9	6567.3	6441.5	6154.3
25°	7026.3	7051.5	7030.5	7005.4	6980.2	6978.1	7009.6	7005.4	6999.1	6877.5	6527.4
27.5°	7569.2	7592.3	7598.6	7571.3	7474.9	7483.3	7554.6	7577.6	7674.0	7472.8	7007.5
30°	7875.3	7898.3	7950.7	8053.4	8206.5	8340.6	8512.5	8564.9	8657.1	8277.7	7577.6
32.5°	8063.9	8072.3	8166.6	8357.4	8816.4	9317.4	9784.9	9803.7	9862.4	9330.0	8099.6
35°	8361.6	8367.9	8443.3	8652.9	9191.7	10025.9	10749.1	10772.2	10724.0	9657.0	8342.7
37.5°	8728.4	8745.2	8793.4	8967.4	9610.9	10619.1	11149.5	11132.7	10705.1	9916.9	8772.4
40°	9262.9	9262.9	9206.3	9441.1	10053.2	10958.7	11289.9	11260.6	11147.4	10669.5	9426.4
42.5°	9734.6	9726.2	9860.3	10019.6	10606.6	11482.8	11878.9	11927.1	12113.7	11614.8	10170.6
45°	10348.7	10386.5	10461.9	10751.2	11547.7	12377.8	12889.3	12935.4	13199.5	12727.9	11040.5
47.5°	10969.2	10981.8	11218.6	11604.3	12713.2	13591.5	14010.7	14086.2	14327.3	14029.6	11977.5
50°	11409.4	11528.9	11908.3	12516.2	13914.3	15071.4	15398.4	15488.5	15914.0	15446.6	13069.6
52.5°	11874.7	11992.1	12455.4	13381.9	15293.6	16584.8	16987.3	17048.1	17490.4	16880.4	14186.8
55°	12273.0	12382.0	12908.2	14149.1	16392.0	18129.7	18859.1	18787.9	18999.6	17985.0	15048.3
57.5°	12338.0	12426.0	13088.4	14639.6	17217.9	19454.5	20500.4	20542.4	20297.1	18810.9	15758.9
60°	11834.9	12015.2	12776.1	14587.2	17588.9	20376.8	21724.6	21753.9	21058.0	19234.4	16041.9
62.5°	10944.0	10925.2	11845.4	13744.5	17069.0	20586.4	22445.7	22414.2	21355.7	19031.0	15767.3
64°	9713.6	9940.0	10799.4	12709.0	16230.6	20263.6	22521.1	22504.4	21213.1	18607.6	15299.9
65°	8963.2	8950.6	9799.5	11862.2	15396.3	19777.3	22387.0	22363.9	20915.5	18228.2	14937.2
67.5°	6470.8	6500.2	7338.7	9153.9	12516.2	17876.0	21512.9	21426.9	19741.6	16970.5	13558.0
70°	3919.8	3936.6	4594.8	6072.6	8984.1	14450.9	19391.6	19395.8	17945.2	15092.3	11539.4
72.5°	2064.7	2108.7	2372.9	3448.2	5456.3	10139.1	15731.7	16104.8	15406.8	12880.9	9116.2
75°	1148.7	1155.0	1341.5	1700.0	2783.7	5674.3	11824.4	11931.3	12197.6	10367.6	6741.2
77.5°	876.2	888.8	947.5	1098.4	1515.5	2630.7	7156.3	7692.9	8596.4	7309.3	3846.5
80°	710.6	723.2	773.5	863.6	1008.3	1247.2	3324.5	3613.8	4601.1	3244.9	1500.9
82.5°	553.4	545.0	610.0	668.7	733.7	737.8	1364.6	1509.2	1874.0	1396.0	649.8
85°	410.8	410.8	463.3	450.7	473.7	431.8	601.6	664.5	750.4	593.2	301.8
87.5°	163.5	180.3	303.9	272.5	211.7	169.8	222.2	234.8	259.9	232.7	125.8
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°	5045.5	5045.5	5045.5	5045.5	5045.5	5045.5	5045.5	5045.5	5045.5	5045.5	5045.5
2.5°	5053.8	5060.1	5045.5	5035.0	5030.8	5024.5	5018.2	5020.3	5028.7	5037.1	5035.0
5°	5079.0	5081.1	5055.9	5043.4	5035.0	5026.6	5026.6	5032.9	5049.6	5062.2	5062.2
7.5°	5141.9	5141.9	5106.2	5083.2	5070.6	5055.9	5051.7	5053.8	5066.4	5083.2	5085.3
10°	5240.4	5232.0	5185.9	5150.3	5127.2	5091.6	5060.1	5043.4	5049.6	5060.1	5060.1
12.5°	5359.9	5336.8	5278.1	5229.9	5173.3	5106.2	5041.3	5007.7	5005.6	5016.1	5011.9
15°	5487.7	5462.6	5380.8	5292.8	5194.3	5095.8	5018.2	4970.0	4932.3	4921.8	4944.8
17.5°	5636.6	5584.2	5471.0	5349.4	5202.7	5074.8	4953.2	4854.7	4787.6	4768.8	4775.1
20°	5816.8	5747.7	5594.6	5403.9	5196.4	4999.3	4810.7	4678.6	4569.6	4536.1	4540.3
22.5°	6066.3	5946.8	5722.5	5431.1	5144.0	4856.8	4594.8	4422.9	4290.8	4238.4	4269.9
25°	6349.3	6219.3	5844.1	5424.9	5007.7	4628.3	4339.1	4114.8	3995.3	3917.7	3934.5
27.5°	6739.2	6508.6	5974.1	5368.3	4812.8	4349.5	4014.1	3802.4	3693.4	3653.6	3672.5
30°	7238.0	6883.8	6114.5	5215.2	4504.6	3997.4	3687.1	3548.8	3483.8	3433.5	3450.3
32.5°	7598.6	7147.9	6145.9	4957.4	4171.4	3676.7	3465.0	3362.2	3291.0	3242.8	3253.2
35°	7856.4	7372.2	6131.3	4640.9	3823.4	3412.5	3288.9	3205.0	3089.7	2984.9	2966.1
37.5°	8202.3	7653.1	6024.4	4295.0	3479.6	3234.4	3146.3	2991.2	2825.6	2685.2	2678.9
40°	8732.6	7982.2	5795.9	3888.4	3186.2	3102.3	2995.4	2794.2	2616.0	2502.8	2494.4
42.5°	9279.7	8286.1	5485.6	3460.8	2945.1	2964.0	2834.0	2634.9	2525.9	2452.5	2444.1
45°	9948.4	8615.2	5150.3	3089.7	2766.9	2834.0	2693.6	2578.3	2513.3	2465.1	2452.5
47.5°	10671.5	8952.7	4773.0	2756.4	2616.0	2714.5	2634.9	2582.5	2546.8	2513.3	2498.6
50°	11451.3	9330.0	4418.7	2488.1	2479.8	2590.9	2628.6	2609.7	2588.8	2578.3	2565.7
52.5°	12306.6	9715.7	4121.0	2299.5	2360.3	2502.8	2630.7	2645.4	2645.4	2639.1	2630.7
55°	12885.1	9984.0	3819.2	2146.5	2238.7	2431.5	2626.5	2683.1	2704.0	2695.7	2687.3
57.5°	13312.7	10130.7	3439.8	2014.4	2136.0	2362.4	2603.4	2687.3	2708.2	2718.7	2714.5
60°	13400.7	9994.5	2943.0	1876.1	2024.9	2261.8	2519.6	2624.4	2651.6	2716.6	2722.9
62.5°	13004.6	9575.3	2448.3	1739.8	1888.6	2108.7	2406.4	2553.1	2607.6	2708.2	2718.7
64°	12518.3	9105.7	2173.7	1653.9	1800.6	2022.8	2349.8	2534.3	2605.5	2739.7	2748.1
65°	12161.9	8764.0	2001.8	1599.4	1744.0	1966.2	2318.4	2540.5	2624.4	2787.9	2800.5
67.5°	10849.7	7588.1	1656.0	1471.5	1609.9	1869.8	2324.6	2592.9	2620.2	2806.8	2804.7
70°	8977.9	6041.1	1387.7	1354.1	1479.9	1792.2	2299.5	2509.1	2511.2	2634.9	2605.5
72.5°	6722.4	4464.8	1203.2	1232.5	1335.3	1607.8	2171.6	2395.9	2360.3	2377.0	2347.7
75°	4617.8	2953.5	1035.5	1102.6	1184.3	1421.2	1991.4	2175.8	2119.2	2098.3	2077.3
77.5°	2465.1	1632.9	861.5	974.7	1029.2	1228.3	1737.7	1915.9	1857.2	1775.4	1748.2
80°	997.8	769.3	693.8	807.0	838.5	989.4	1446.4	1557.4	1513.4	1370.9	1324.8
82.5°	501.0	461.2	545.0	635.1	637.2	706.4	1075.3	1180.1	1081.6	907.6	867.8
85°	262.0	270.4	375.2	446.5	394.1	381.5	645.6	714.8	656.1	570.2	513.6
87.5°	94.3	109.0	197.0	194.9	138.3	73.4	142.5	69.2	37.7	23.1	29.3
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)