

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: P457868

Luminaire Tested: **GALN-SA9B-727-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457868  
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-727-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 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: 42781 lumens  
Efficiency: N/A  
Efficacy: 117.5 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

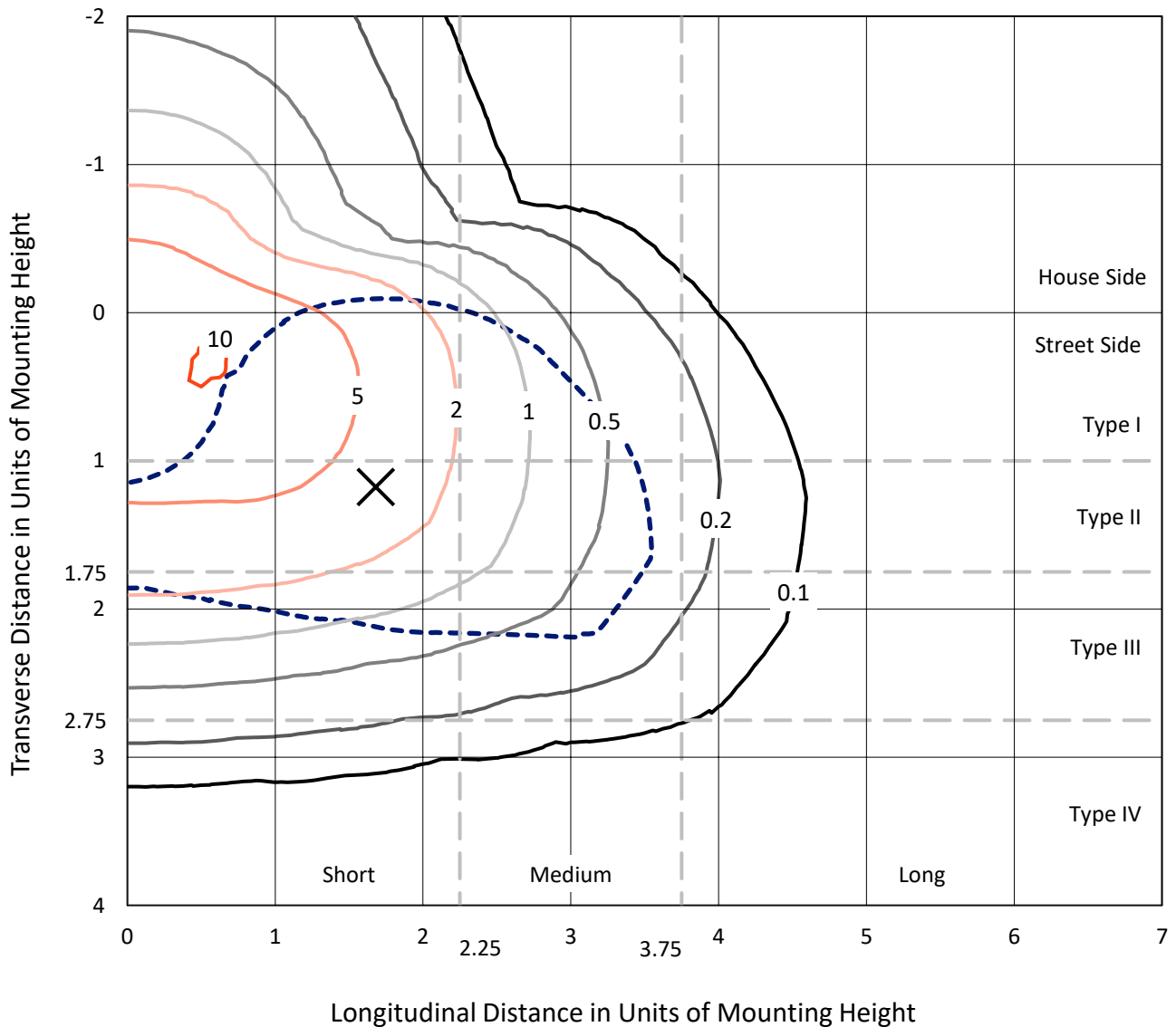
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

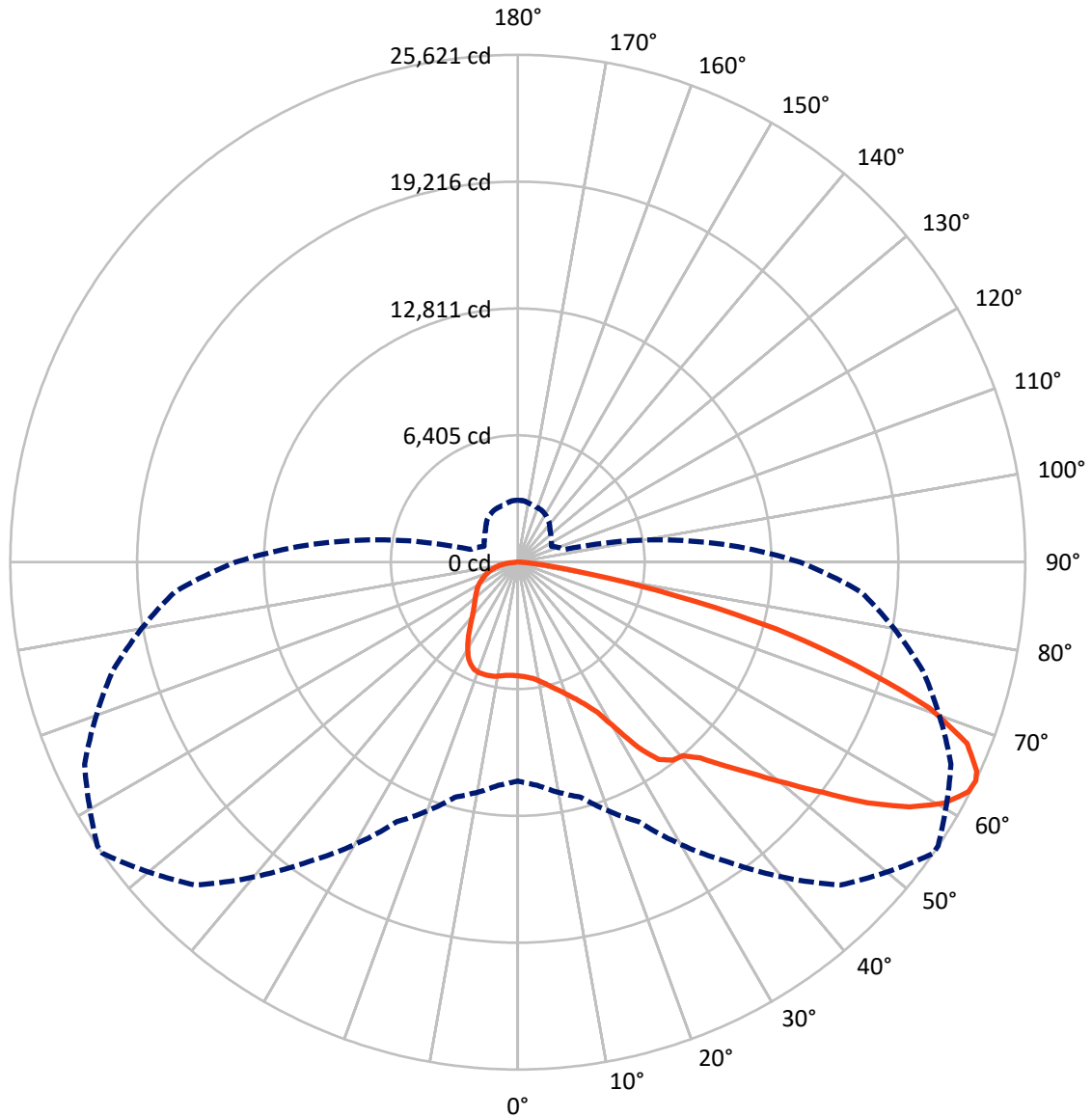
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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	10392.3	0.0	10392.3
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	32388.7	0.0	32388.7
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	42781.0	0.0	42781.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	558.3	1.3
10°-20°	1761.7	4.1
20°-30°	3136.4	7.3
30°-40°	4825.6	11.3
40°-50°	6840.7	16.0
50°-60°	9901.8	23.1
60°-70°	10247.3	24.0
70°-80°	4798.8	11.2
80°-90°	710.4	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°	42781.0	100.0
0°-180°	42781.0	100.0



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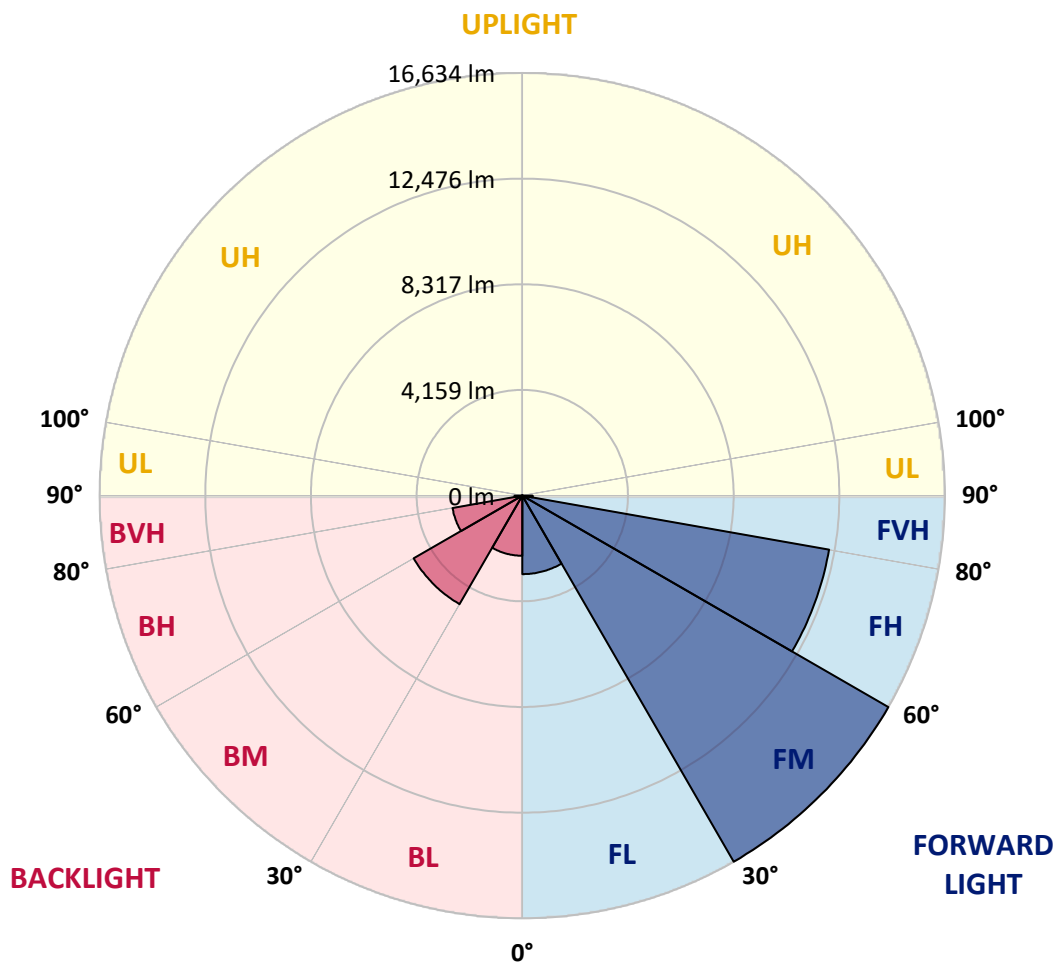
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3089.5	7.2			
FM	(30°-60°)	16634.4	38.9			
FH	(60°-80°)	12258.0	28.7			G5
FVH	(80°-90°)	406.8	1.0			G3/500
BL	(0°-30°)	2367.0	5.5	B3/2500		
BM	(30°-60°)	4933.7	11.5	B3/5000		
BH	(60°-80°)	2788.1	6.5	B4/5000		G4/5000
BVH	(80°-90°)	303.6	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°	5739.9	5739.9	5739.9	5739.9	5739.9	5739.9	5739.9	5739.9	5739.9	5739.9	5739.9
2.5°	5804.3	5801.9	5809.1	5801.9	5806.7	5790.0	5782.8	5787.6	5780.5	5768.5	5747.1
5°	5875.8	5873.5	5875.8	5866.3	5871.1	5861.5	5844.8	5849.6	5837.7	5811.5	5780.5
7.5°	5997.5	5987.9	5987.9	5985.5	5976.0	5961.7	5949.8	5945.0	5933.1	5899.7	5852.0
10°	6154.9	6154.9	6157.2	6138.2	6150.1	6123.9	6111.9	6109.5	6069.0	6026.1	5959.3
12.5°	6362.3	6374.2	6367.1	6357.6	6352.8	6343.2	6302.7	6312.2	6266.9	6193.0	6111.9
15°	6619.9	6638.9	6627.0	6622.2	6610.3	6574.6	6557.9	6550.7	6491.1	6383.8	6276.5
17.5°	6960.9	6937.0	6927.5	6915.6	6865.5	6839.3	6810.6	6805.9	6753.4	6627.0	6460.1
20°	7259.0	7292.3	7273.3	7261.3	7211.3	7161.2	7139.7	7132.6	7087.3	6949.0	6681.9
22.5°	7614.3	7621.4	7628.6	7600.0	7576.1	7538.0	7499.8	7487.9	7471.2	7328.1	7001.4
25°	7993.4	8022.1	7998.2	7969.6	7941.0	7938.6	7974.4	7969.6	7962.4	7824.1	7425.9
27.5°	8611.1	8637.3	8644.5	8613.5	8503.8	8513.3	8594.4	8620.6	8730.3	8501.4	7972.0
30°	8959.2	8985.5	9045.1	9161.9	9336.0	9488.6	9684.2	9743.8	9848.7	9417.1	8620.6
32.5°	9173.9	9183.4	9290.7	9507.7	10030.0	10599.9	11131.7	11153.1	11219.9	10614.2	9214.4
35°	9512.5	9519.6	9605.5	9843.9	10456.8	11405.9	12228.6	12254.9	12200.0	10986.2	9491.0
37.5°	9929.8	9948.9	10003.7	10201.7	10933.7	12080.8	12684.1	12665.0	12178.5	11281.9	9979.9
40°	10537.9	10537.9	10473.5	10740.6	11436.9	12467.1	12843.9	12810.5	12681.7	12138.0	10723.9
42.5°	11074.4	11064.9	11217.5	11398.8	12066.5	13063.3	13514.0	13568.8	13781.1	13213.5	11570.5
45°	11773.2	11816.1	11901.9	12231.0	13137.2	14081.5	14663.4	14715.8	15016.3	14479.8	12560.1
47.5°	12479.0	12493.3	12762.8	13201.6	14463.1	15462.2	15939.2	16025.0	16299.3	15960.6	13626.0
50°	12979.8	13115.7	13547.4	14238.9	15829.5	17145.8	17517.8	17620.4	18104.5	17572.7	14868.5
52.5°	13509.2	13642.7	14169.8	15223.8	17398.6	18867.6	19325.4	19394.6	19897.7	19203.8	16139.5
55°	13962.3	14086.3	14684.8	16096.6	18648.2	20625.1	21454.9	21373.9	21614.7	20460.5	17119.6
57.5°	14036.2	14136.4	14889.9	16654.6	19587.7	22132.2	23322.1	23369.8	23090.8	21400.1	17928.0
60°	13463.9	13669.0	14534.6	16595.0	20009.8	23181.5	24714.8	24748.2	23956.5	21881.8	18249.9
62.5°	12450.4	12428.9	13475.8	15636.3	19418.4	23419.9	25535.1	25499.4	24295.1	21650.5	17937.5
64°	11050.6	11308.1	12285.9	14458.3	18464.6	23052.7	25621.0	25601.9	24132.9	21168.8	17405.8
65°	10196.9	10182.6	11148.4	13494.9	17515.5	22499.4	25468.4	25442.1	23794.3	20737.2	16993.2
67.5°	7361.5	7394.9	8348.8	10413.9	14238.9	20336.5	24473.9	24376.2	22458.9	19306.3	15424.1
70°	4459.3	4478.4	5227.2	6908.4	10220.7	16440.0	22060.7	22065.4	20415.2	17169.7	13127.7
72.5°	2348.9	2399.0	2699.5	3922.8	6207.3	11534.7	17897.0	18321.5	17527.4	14653.8	10371.0
75°	1306.8	1314.0	1526.2	1934.0	3166.9	6455.3	13452.0	13573.6	13876.4	11794.6	7669.1
77.5°	996.8	1011.1	1077.9	1249.6	1724.1	2992.8	8141.3	8751.8	9779.6	8315.4	4375.9
80°	808.4	822.7	879.9	982.5	1147.0	1418.9	3782.1	4111.2	5234.4	3691.5	1707.4
82.5°	629.6	620.0	693.9	760.7	834.6	839.4	1552.4	1717.0	2131.9	1588.2	739.3
85°	467.4	467.4	527.0	512.7	538.9	491.2	684.4	755.9	853.7	674.9	343.4
87.5°	186.0	205.1	345.8	310.0	240.9	193.2	252.8	267.1	295.7	264.7	143.1
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°	5739.9	5739.9	5739.9	5739.9	5739.9	5739.9	5739.9	5739.9	5739.9	5739.9	5739.9
2.5°	5749.5	5756.6	5739.9	5728.0	5723.2	5716.1	5708.9	5711.3	5720.8	5730.4	5728.0
5°	5778.1	5780.5	5751.8	5737.5	5728.0	5718.5	5718.5	5725.6	5744.7	5759.0	5759.0
7.5°	5849.6	5849.6	5809.1	5782.8	5768.5	5751.8	5747.1	5749.5	5763.8	5782.8	5785.2
10°	5961.7	5952.2	5899.7	5859.2	5832.9	5792.4	5756.6	5737.5	5744.7	5756.6	5756.6
12.5°	6097.6	6071.4	6004.6	5949.8	5885.4	5809.1	5735.1	5697.0	5694.6	5706.5	5701.8
15°	6243.1	6214.5	6121.5	6021.3	5909.2	5797.2	5708.9	5654.1	5611.1	5599.2	5625.5
17.5°	6412.4	6352.8	6224.0	6085.7	5918.8	5773.3	5635.0	5522.9	5446.6	5425.1	5432.3
20°	6617.5	6538.8	6364.7	6147.7	5911.6	5687.5	5472.8	5322.6	5198.6	5160.4	5165.2
22.5°	6901.3	6765.3	6510.2	6178.7	5852.0	5525.3	5227.2	5031.7	4881.4	4821.8	4857.6
25°	7223.2	7075.3	6648.5	6171.5	5697.0	5265.4	4936.3	4681.1	4545.2	4457.0	4476.0
27.5°	7666.7	7404.4	6796.3	6107.2	5475.2	4948.2	4566.7	4325.8	4201.8	4156.5	4178.0
30°	8234.3	7831.3	6956.1	5933.1	5124.7	4547.6	4194.6	4037.3	3963.3	3906.1	3925.2
32.5°	8644.5	8131.8	6991.9	5639.8	4745.5	4182.7	3941.9	3825.0	3743.9	3689.1	3701.0
35°	8937.8	8386.9	6975.2	5279.7	4349.7	3882.3	3741.6	3646.2	3515.0	3395.8	3374.3
37.5°	9331.2	8706.5	6853.6	4886.2	3958.6	3679.6	3579.4	3402.9	3214.5	3054.8	3047.6
40°	9934.6	9080.9	6593.6	4423.6	3624.7	3529.3	3407.7	3178.8	2976.1	2847.3	2837.8
42.5°	10557.0	9426.6	6240.7	3937.1	3350.5	3371.9	3224.1	2997.5	2873.5	2790.1	2780.5
45°	11317.7	9801.0	5859.2	3515.0	3147.8	3224.1	3064.3	2933.2	2859.2	2804.4	2790.1
47.5°	12140.4	10185.0	5429.9	3135.9	2976.1	3088.2	2997.5	2937.9	2897.4	2859.2	2842.5
50°	13027.5	10614.2	5026.9	2830.6	2821.1	2947.5	2990.4	2968.9	2945.1	2933.2	2918.8
52.5°	14000.4	11053.0	4688.3	2616.0	2685.1	2847.3	2992.8	3009.5	3009.5	3002.3	2992.8
55°	14658.6	11358.2	4344.9	2441.9	2546.8	2766.2	2988.0	3052.4	3076.2	3066.7	3057.2
57.5°	15145.1	11525.1	3913.3	2291.7	2430.0	2687.5	2961.8	3057.2	3081.0	3092.9	3088.2
60°	15245.2	11370.1	3348.1	2134.3	2303.6	2573.1	2866.4	2985.6	3016.6	3090.5	3097.7
62.5°	14794.5	10893.2	2785.3	1979.3	2148.6	2399.0	2737.6	2904.5	2966.5	3081.0	3092.9
64°	14241.3	10359.0	2472.9	1881.5	2048.4	2301.2	2673.2	2883.1	2964.2	3116.8	3126.3
65°	13835.9	9970.3	2277.4	1819.5	1984.1	2236.8	2637.5	2890.2	2985.6	3171.6	3185.9
67.5°	12343.1	8632.5	1883.9	1674.0	1831.4	2127.1	2644.6	2949.8	2980.8	3193.1	3190.7
70°	10213.6	6872.6	1578.7	1540.5	1683.6	2038.9	2616.0	2854.5	2856.8	2997.5	2964.2
72.5°	7647.7	5079.4	1368.8	1402.2	1519.0	1829.0	2470.5	2725.7	2685.1	2704.2	2670.8
75°	5253.4	3360.0	1178.0	1254.3	1347.3	1616.8	2265.4	2475.3	2410.9	2387.1	2363.2
77.5°	2804.4	1857.7	980.1	1108.9	1170.9	1397.4	1976.9	2179.6	2112.8	2019.8	1988.8
80°	1135.1	875.2	789.3	918.1	953.9	1125.6	1645.4	1771.8	1721.7	1559.6	1507.1
82.5°	569.9	524.6	620.0	722.6	724.9	803.6	1223.3	1342.6	1230.5	1032.6	987.3
85°	298.1	307.6	426.9	507.9	448.3	434.0	734.5	813.2	746.4	648.6	584.2
87.5°	107.3	124.0	224.2	221.8	157.4	83.5	162.2	78.7	42.9	26.2	33.4
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)