

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: P459492

Luminaire Tested: **GALN-SA9B-735-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459492  
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-735-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47653 lumens  
Efficiency: N/A  
Efficacy: 130.9 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

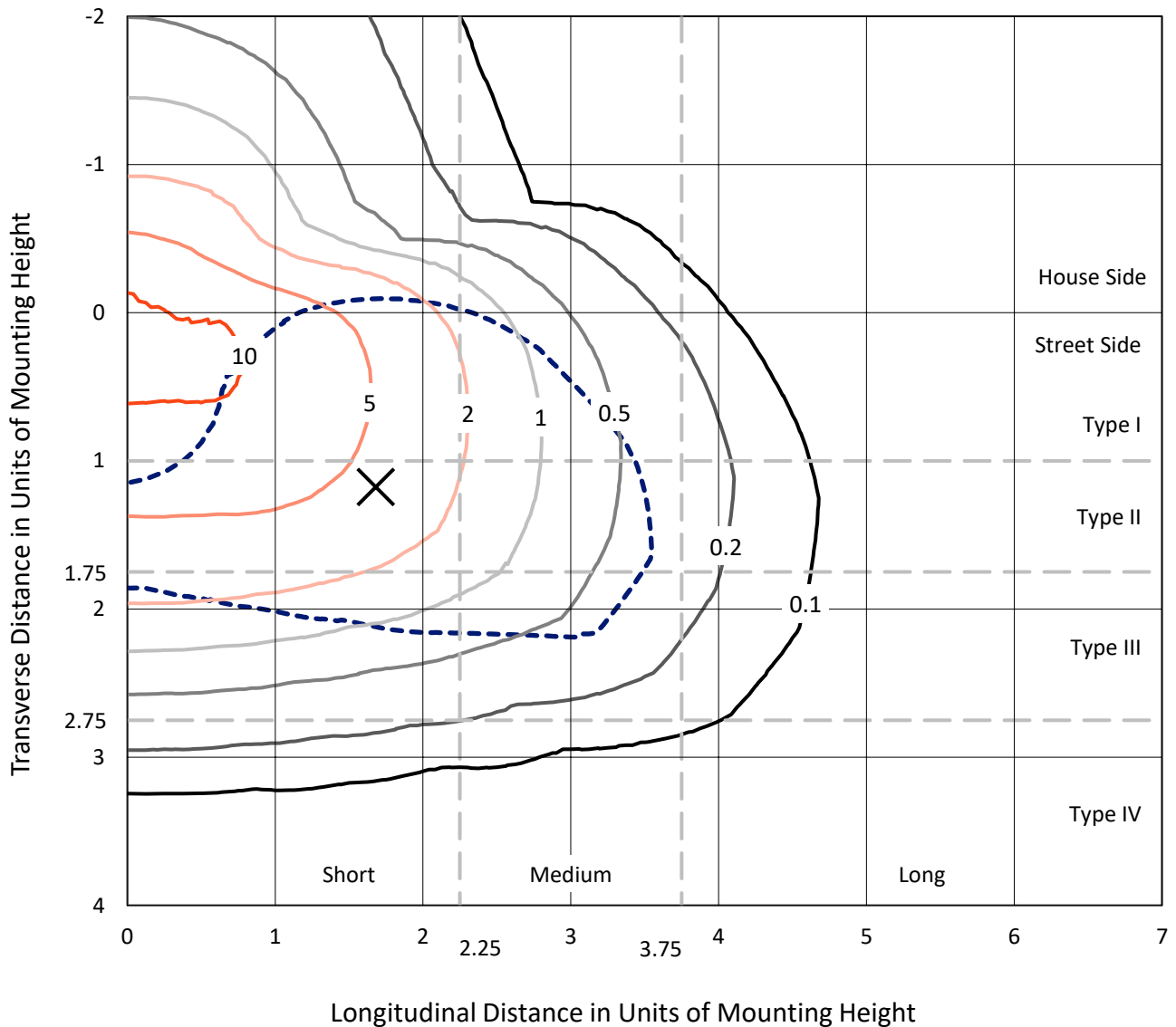
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

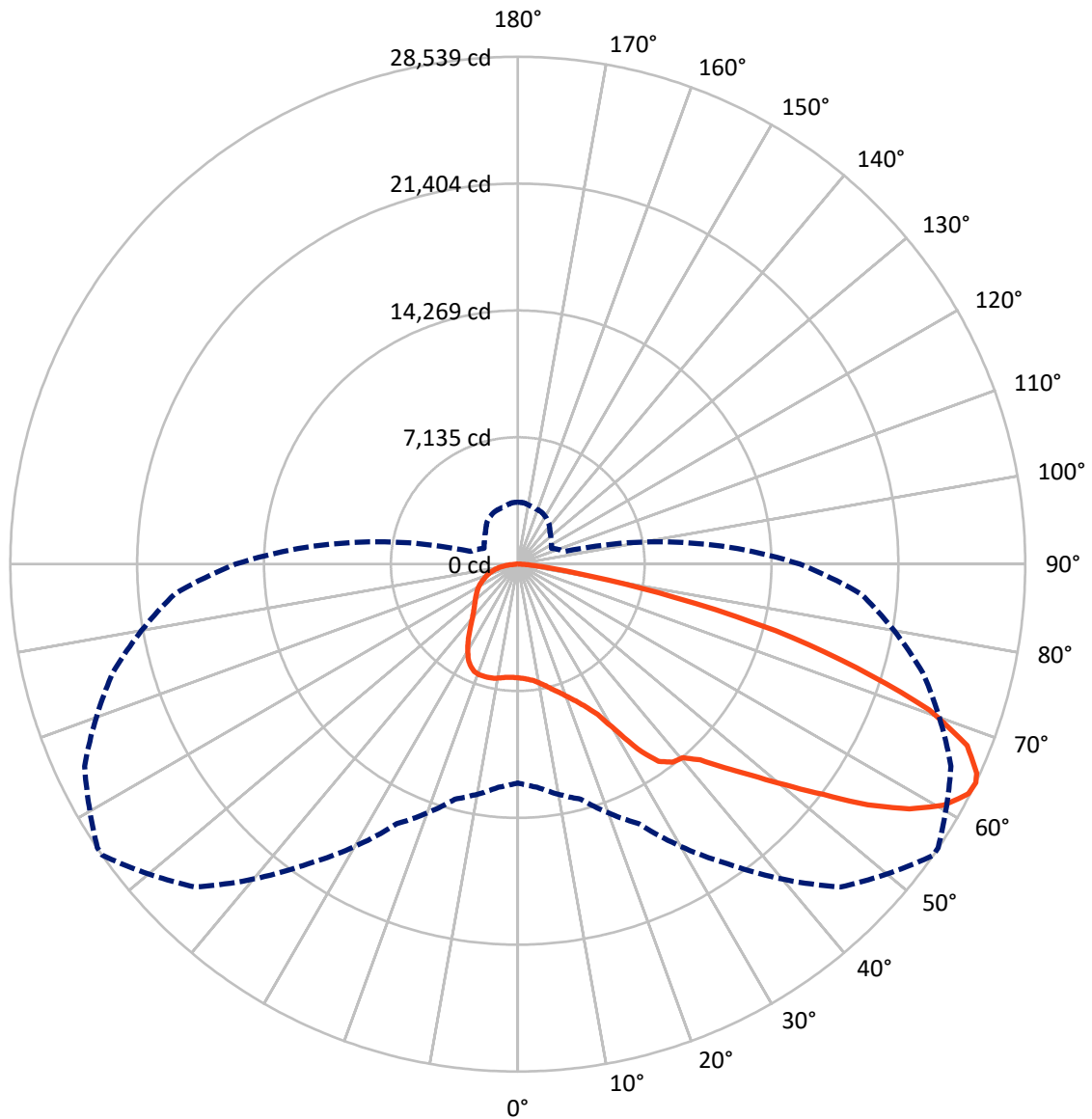
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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	11575.9	0.0	11575.9
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	36077.2	0.0	36077.2
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	47653.0	0.0	47653.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	621.9	1.3
10°-20°	1962.4	4.1
20°-30°	3493.5	7.3
30°-40°	5375.2	11.3
40°-50°	7619.7	16.0
50°-60°	11029.4	23.1
60°-70°	11414.2	24.0
70°-80°	5345.3	11.2
80°-90°	791.3	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°	47653.0	100.0
0°-180°	47653.0	100.0



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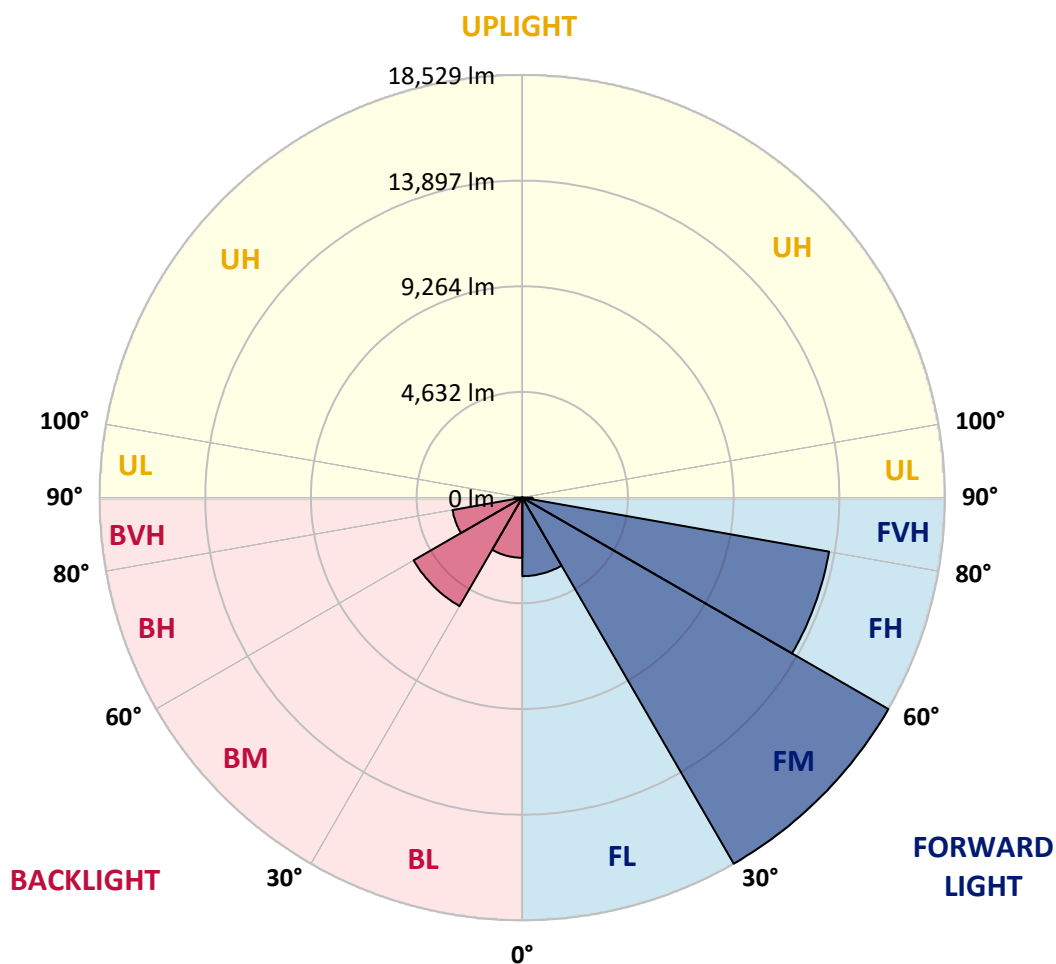
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3441.3	7.2			
FM	(30°-60°)	18528.8	38.9			
FH	(60°-80°)	13654.0	28.7			G5
FVH	(80°-90°)	453.1	1.0			G3/500
BL	(0°-30°)	2636.5	5.5	B4/5000		
BM	(30°-60°)	5495.5	11.5	B4/8500		
BH	(60°-80°)	3105.6	6.5	B4/5000		G4/5000
BVH	(80°-90°)	338.2	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°	6393.6	6393.6	6393.6	6393.6	6393.6	6393.6	6393.6	6393.6	6393.6	6393.6	6393.6
2.5°	6465.3	6462.7	6470.6	6462.7	6468.0	6449.4	6441.4	6446.7	6438.8	6425.5	6401.6
5°	6545.0	6542.3	6545.0	6534.4	6539.7	6529.1	6510.5	6515.8	6502.5	6473.3	6438.8
7.5°	6680.5	6669.8	6669.8	6667.2	6656.6	6640.6	6627.3	6622.0	6608.8	6571.6	6518.4
10°	6855.8	6855.8	6858.4	6837.2	6850.5	6821.3	6808.0	6805.3	6760.2	6712.3	6638.0
12.5°	7086.9	7100.2	7092.2	7081.6	7076.3	7065.6	7020.5	7031.1	6980.6	6898.3	6808.0
15°	7373.8	7395.0	7381.7	7376.4	7363.1	7323.3	7304.7	7296.7	7230.3	7110.8	6991.3
17.5°	7753.6	7727.0	7716.4	7703.1	7647.3	7618.1	7586.3	7580.9	7522.5	7381.7	7195.8
20°	8085.6	8122.8	8101.6	8088.3	8032.5	7976.7	7952.8	7944.8	7894.4	7740.3	7442.8
22.5°	8481.4	8489.4	8497.3	8465.5	8438.9	8396.4	8353.9	8340.6	8322.0	8162.7	7798.8
25°	8903.8	8935.6	8909.1	8877.2	8845.3	8842.7	8882.5	8877.2	8869.2	8715.2	8271.6
27.5°	9591.7	9620.9	9628.9	9594.4	9472.2	9482.8	9573.1	9602.3	9724.5	9469.5	8879.8
30°	9979.5	10008.8	10075.2	10205.3	10399.2	10569.2	10787.0	10853.4	10970.3	10489.5	9602.3
32.5°	10218.6	10229.2	10348.8	10590.5	11172.2	11807.0	12399.4	12423.3	12497.7	11823.0	10263.8
35°	10595.8	10603.8	10699.4	10965.0	11647.7	12704.8	13621.3	13650.5	13589.4	12237.3	10571.9
37.5°	11060.6	11081.9	11143.0	11363.4	12178.9	13456.6	14128.6	14107.3	13565.5	12566.7	11116.4
40°	11738.0	11738.0	11666.3	11963.8	12739.4	13886.9	14306.6	14269.4	14125.9	13520.3	11945.2
42.5°	12335.6	12325.0	12495.0	12696.9	13440.6	14550.9	15053.0	15114.1	15350.5	14718.3	12888.1
45°	13113.9	13161.7	13257.3	13623.9	14633.3	15685.2	16333.3	16391.7	16726.4	16128.8	13990.5
47.5°	13900.2	13916.1	14216.3	14705.0	16110.2	17223.1	17754.4	17850.0	18155.5	17778.3	15177.8
50°	14458.0	14609.4	15090.2	15860.5	17632.2	19098.4	19512.8	19627.0	20166.3	19573.9	16561.7
52.5°	15047.7	15196.4	15783.4	16957.5	19380.0	21016.3	21526.3	21603.3	22163.8	21390.8	17977.5
55°	15552.3	15690.5	16357.2	17929.7	20771.9	22973.9	23898.3	23808.0	24076.3	22790.6	19069.2
57.5°	15634.7	15746.3	16585.6	18551.3	21818.4	24652.7	25978.1	26031.3	25720.5	23837.2	19969.7
60°	14997.2	15225.6	16189.8	18484.8	22288.6	25821.4	27529.4	27566.6	26684.7	24373.8	20328.3
62.5°	13868.3	13844.4	15010.5	17417.0	21629.8	26087.0	28443.1	28403.3	27061.9	24116.1	19980.3
64°	12309.1	12595.9	13685.0	16104.8	20567.3	25678.0	28538.8	28517.5	26881.3	23579.5	19388.0
65°	11358.1	11342.2	12418.0	15031.7	19510.2	25061.7	28368.8	28339.5	26504.1	23098.8	18928.4
67.5°	8199.8	8237.0	9299.5	11599.8	15860.5	22652.5	27261.1	27152.2	25016.6	21505.0	17180.6
70°	4967.2	4988.4	5822.5	7695.2	11384.7	18312.2	24573.0	24578.3	22740.2	19125.0	14622.7
72.5°	2616.4	2672.2	3006.9	4369.5	6914.2	12848.3	19935.2	20408.0	19523.4	16322.7	11552.0
75°	1455.6	1463.6	1700.0	2154.2	3527.5	7190.5	14983.9	15119.4	15456.7	13137.8	8542.5
77.5°	1110.3	1126.3	1200.6	1391.9	1920.5	3333.6	9068.4	9748.4	10893.3	9262.3	4874.2
80°	900.5	916.4	980.2	1094.4	1277.7	1580.5	4212.8	4579.4	5830.5	4111.9	1901.9
82.5°	701.3	690.6	773.0	847.3	929.7	935.0	1729.2	1912.5	2374.7	1769.1	823.4
85°	520.6	520.6	587.0	571.1	600.3	547.2	762.3	842.0	950.9	751.7	382.5
87.5°	207.2	228.4	385.2	345.3	268.3	215.2	281.6	297.5	329.4	294.8	159.4
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°	6393.6	6393.6	6393.6	6393.6	6393.6	6393.6	6393.6	6393.6	6393.6	6393.6	6393.6
2.5°	6404.2	6412.2	6393.6	6380.3	6375.0	6367.0	6359.1	6361.7	6372.3	6383.0	6380.3
5°	6436.1	6438.8	6406.9	6390.9	6380.3	6369.7	6369.7	6377.7	6398.9	6414.8	6414.8
7.5°	6515.8	6515.8	6470.6	6441.4	6425.5	6406.9	6401.6	6404.2	6420.2	6441.4	6444.1
10°	6640.6	6630.0	6571.6	6526.4	6497.2	6452.0	6412.2	6390.9	6398.9	6412.2	6412.2
12.5°	6792.0	6762.8	6688.4	6627.3	6555.6	6470.6	6388.3	6345.8	6343.1	6356.4	6351.1
15°	6954.1	6922.2	6818.6	6707.0	6582.2	6457.3	6359.1	6298.0	6250.2	6236.9	6266.1
17.5°	7142.7	7076.3	6932.8	6778.8	6592.8	6430.8	6276.7	6151.9	6066.9	6043.0	6050.9
20°	7371.1	7283.4	7089.5	6847.8	6584.8	6335.2	6096.1	5928.8	5790.6	5748.1	5753.4
22.5°	7687.2	7535.8	7251.6	6882.3	6518.4	6154.5	5822.5	5604.7	5437.3	5370.9	5410.8
25°	8045.8	7881.1	7405.6	6874.4	6345.8	5865.0	5498.4	5214.2	5062.8	4964.5	4985.8
27.5°	8539.8	8247.7	7570.3	6802.7	6098.8	5511.7	5086.7	4818.4	4680.3	4629.8	4653.8
30°	9172.0	8723.1	7748.3	6608.8	5708.3	5065.5	4672.3	4497.0	4414.7	4350.9	4372.2
32.5°	9628.9	9057.8	7788.1	6282.0	5285.9	4659.1	4390.8	4260.6	4170.3	4109.2	4122.5
35°	9955.6	9342.0	7769.5	5880.9	4845.0	4324.4	4167.7	4061.4	3915.3	3782.5	3758.6
37.5°	10393.9	9698.0	7634.1	5442.7	4409.4	4098.6	3987.0	3790.5	3580.6	3402.7	3394.7
40°	11065.9	10115.0	7344.5	4927.3	4037.5	3931.3	3795.8	3540.8	3315.0	3171.6	3160.9
42.5°	11759.2	10500.2	6951.4	4385.5	3732.0	3755.9	3591.3	3338.9	3200.8	3107.8	3097.2
45°	12606.6	10917.2	6526.4	3915.3	3506.3	3591.3	3413.3	3267.2	3184.8	3123.8	3107.8
47.5°	13523.0	11344.8	6048.3	3493.0	3315.0	3439.8	3338.9	3272.5	3227.3	3184.8	3166.3
50°	14511.1	11823.0	5599.4	3153.0	3142.3	3283.1	3330.9	3307.0	3280.5	3267.2	3251.3
52.5°	15594.8	12311.7	5222.2	2913.9	2990.9	3171.6	3333.6	3352.2	3352.2	3344.2	3333.6
55°	16328.0	12651.7	4839.7	2720.0	2836.9	3081.3	3328.3	3400.0	3426.6	3415.9	3405.3
57.5°	16869.8	12837.7	4358.9	2552.7	2706.7	2993.6	3299.1	3405.3	3431.9	3445.2	3439.8
60°	16981.4	12665.0	3729.4	2377.3	2565.9	2866.1	3192.8	3325.6	3360.2	3442.5	3450.5
62.5°	16479.4	12133.8	3102.5	2204.7	2393.3	2672.2	3049.4	3235.3	3304.4	3431.9	3445.2
64°	15863.1	11538.8	2754.5	2095.8	2281.7	2563.3	2977.7	3211.4	3301.7	3471.7	3482.3
65°	15411.6	11105.8	2536.7	2026.7	2210.0	2491.6	2937.8	3219.4	3325.6	3532.8	3548.8
67.5°	13748.8	9615.6	2098.4	1864.7	2040.0	2369.4	2945.8	3285.8	3320.3	3556.7	3554.1
70°	11376.7	7655.3	1758.4	1715.9	1875.3	2271.1	2913.9	3179.5	3182.2	3338.9	3301.7
72.5°	8518.6	5657.8	1524.7	1561.9	1692.0	2037.3	2751.9	3036.1	2990.9	3012.2	2975.0
75°	5851.7	3742.7	1312.2	1397.2	1500.8	1800.9	2523.4	2757.2	2685.5	2658.9	2632.3
77.5°	3123.8	2069.2	1091.7	1235.2	1304.2	1556.6	2202.0	2427.8	2353.4	2249.8	2215.3
80°	1264.4	974.8	879.2	1022.7	1062.5	1253.8	1832.8	1973.6	1917.8	1737.2	1678.8
82.5°	634.8	584.4	690.6	804.8	807.5	895.2	1362.7	1495.5	1370.6	1150.2	1099.7
85°	332.0	342.7	475.5	565.8	499.4	483.4	818.1	905.8	831.4	722.5	650.8
87.5°	119.5	138.1	249.7	247.0	175.3	93.0	180.6	87.7	47.8	29.2	37.2
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)