

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: P531062

Luminaire Tested: **GALN-SA6B-750-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531062  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6B-750-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30448 lumens  
Efficiency: N/A  
Efficacy: 125.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

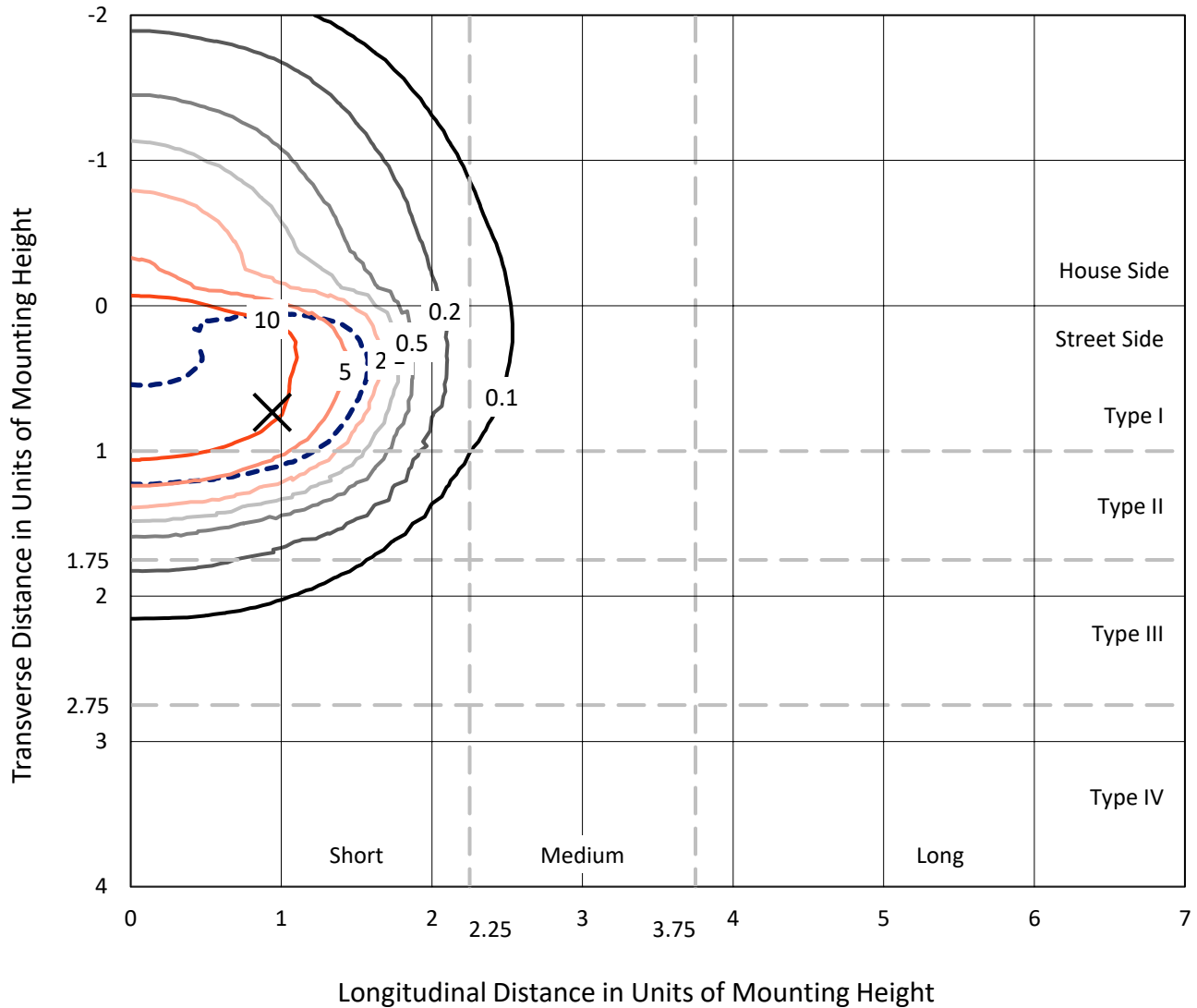
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

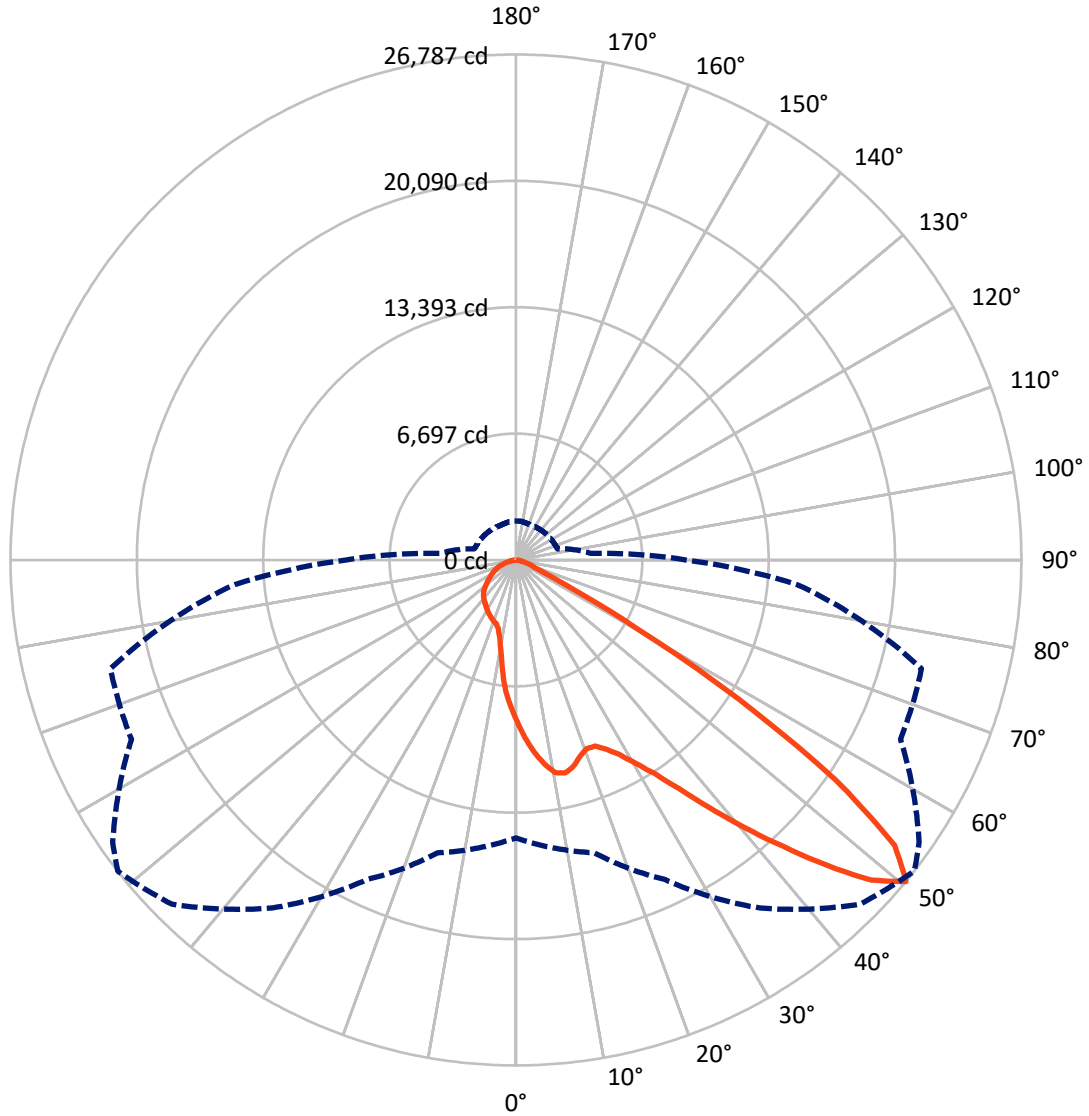
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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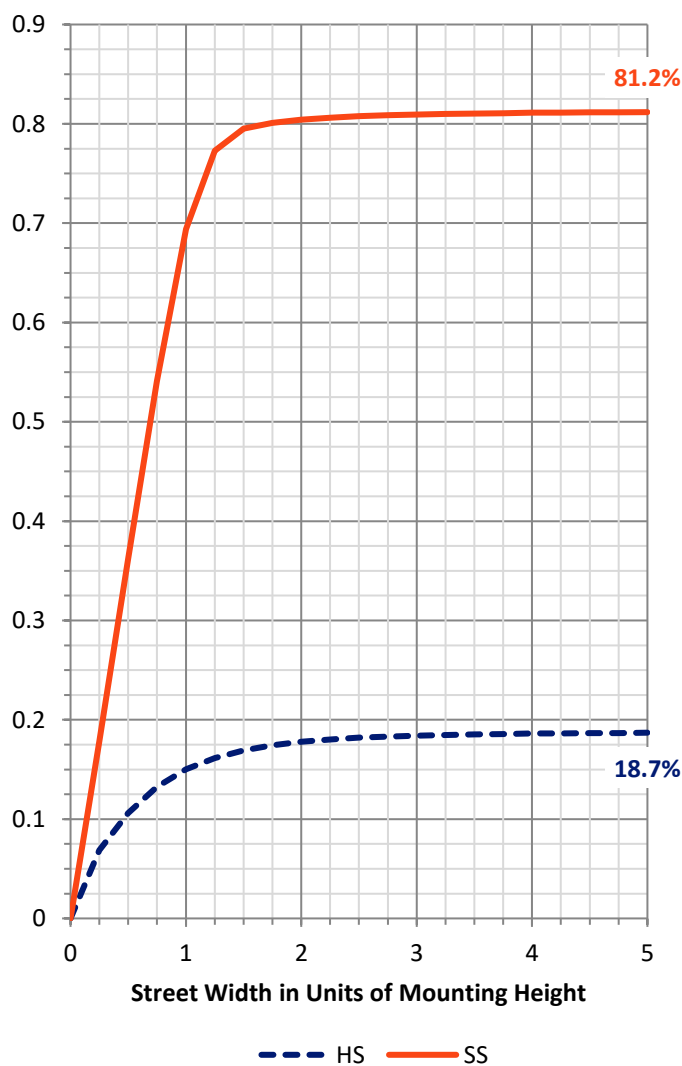
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5723.5	0.0	5723.5
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	24724.5	0.0	24724.5
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	30448.0	0.0	30448.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	791.1	2.6
10°-20°	2120.3	7.0
20°-30°	3571.5	11.7
30°-40°	5993.3	19.7
40°-50°	9168.3	30.1
50°-60°	6684.4	22.0
60°-70°	1487.6	4.9
70°-80°	536.6	1.8
80°-90°	95.0	0.3
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°	30448.0	100.0
0°-180°	30448.0	100.0

**Coefficient of Utilization**



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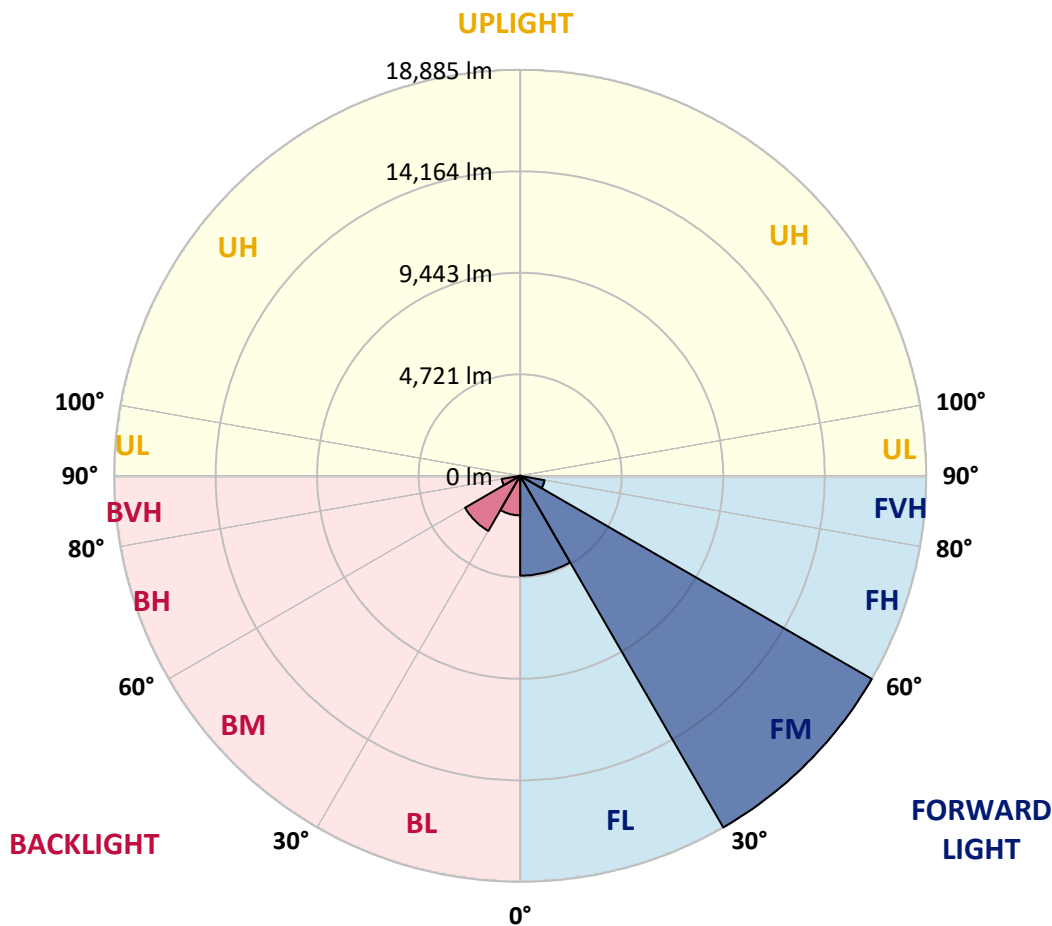
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4644.4	15.3			
FM (30°-60°)	18885.4	62.0			
FH (60°-80°)	1152.2	3.8			G1/1800
FVH (80°-90°)	42.6	0.1			G1/100
BL (0°-30°)	1838.5	6.0	B3/2500		
BM (30°-60°)	2960.6	9.7	B3/5000		
BH (60°-80°)	872.0	2.9	B2/1000		G2/1000
BVH (80°-90°)	52.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	8582.8	8582.8	8582.8	8582.8	8582.8	8582.8	8582.8	8582.8	8582.8	8582.8	8582.8
2.5°	10105.6	9911.1	9933.1	9793.7	9643.3	9599.2	9445.1	9298.3	9188.2	8953.4	8736.9
5°	11045.0	10986.3	10898.2	10788.1	10674.4	10395.5	10237.7	10054.2	9650.6	9287.3	8927.7
7.5°	11180.7	11169.7	11217.4	11217.4	11257.8	11151.4	10927.5	10799.1	10369.8	9779.0	9111.2
10°	10226.7	10259.7	10490.9	10791.8	11210.1	11500.0	11463.3	11430.3	10960.6	10153.3	9327.7
12.5°	9467.1	9393.7	9529.5	9786.4	10413.8	11114.7	11588.0	11591.7	11470.6	10751.4	9485.5
15°	9037.8	9089.2	9125.9	9247.0	9720.3	10531.3	11364.2	11610.1	12142.1	11173.4	9735.0
17.5°	9313.0	9140.5	9133.2	9162.6	9404.7	10013.9	10949.6	11371.5	12509.1	11716.5	10043.2
20°	9672.6	9668.9	9566.2	9529.5	9525.8	10068.9	10678.0	11250.5	12703.6	12421.0	10355.1
22.5°	10303.7	10303.7	10135.0	10054.2	9881.8	10325.8	10714.7	11103.7	13026.5	12905.4	10505.6
25°	11360.5	11188.1	10898.2	10700.0	10601.0	10758.8	11103.7	11452.3	13309.0	13419.1	10817.5
27.5°	12336.6	12065.1	11922.0	11580.7	11448.6	11356.9	11672.4	12024.7	13639.3	14219.0	10986.3
30°	13444.8	13397.1	13140.2	12699.9	12373.3	12204.5	12494.4	12843.0	14244.7	15037.3	11375.2
32.5°	15426.3	14993.3	14644.7	14105.3	13573.2	13213.6	13499.8	13731.0	15250.1	15892.3	11800.9
35°	17565.5	17426.1	16824.3	15851.9	15037.3	14714.4	14883.2	15055.7	16420.7	17198.6	12516.4
37.5°	19668.1	19477.3	18981.9	18163.7	17172.9	16516.1	16637.2	16839.0	17734.3	18959.9	13389.7
40°	21179.9	20945.1	20695.6	20574.5	19591.1	18692.1	18622.3	18673.7	19510.3	20611.2	14358.5
42.5°	21290.0	21579.9	21656.9	22145.0	21913.8	21176.3	20746.9	20757.9	21205.6	22244.1	15338.2
45°	21058.8	20791.0	21359.7	22691.7	23455.0	23799.9	23077.0	22985.3	22255.1	23190.8	15826.2
47.5°	18633.3	18706.7	19668.1	21774.4	23979.7	25520.9	25352.1	25047.5	22816.5	23157.7	15749.2
50°	14729.1	15173.1	16064.7	18688.4	22511.9	25792.4	26786.8	26082.3	22482.6	22247.7	14963.9
52.5°	9808.4	9991.8	10579.0	13965.8	18101.3	23055.0	25135.6	25297.0	22174.3	21055.2	13969.5
55°	4366.6	4351.9	5177.6	7294.8	11356.9	17543.5	20537.8	21521.2	20989.1	19840.6	13000.8
57.5°	1849.4	1911.8	2249.4	3152.0	5584.9	10586.3	13914.5	14776.8	16141.8	16292.2	9973.5
60°	1251.3	1258.6	1350.3	1577.9	2337.4	4972.1	7298.5	8333.3	9309.3	9243.3	5291.3
62.5°	983.4	1009.1	1078.8	1170.5	1387.0	2256.7	3265.8	3841.9	3904.3	3284.1	2007.2
65°	840.3	844.0	913.7	990.7	1086.1	1313.7	1574.2	1603.5	1621.9	1563.2	1475.1
67.5°	693.5	700.9	755.9	844.0	932.0	1005.4	1078.8	1115.5	1199.9	1365.0	1343.0
70°	550.4	561.4	609.1	682.5	763.2	807.3	899.0	932.0	1009.1	1137.5	1188.9
72.5°	418.3	422.0	462.3	513.7	587.1	631.1	708.2	744.9	796.3	906.3	954.1
75°	300.9	311.9	341.3	366.9	378.0	407.3	480.7	521.1	594.4	642.1	645.8
77.5°	157.8	165.1	172.5	172.5	209.2	264.2	311.9	333.9	385.3	422.0	403.6
80°	62.4	66.0	84.4	113.8	146.8	190.8	223.8	234.8	278.9	300.9	311.9
82.5°	36.7	40.4	55.0	80.7	106.4	135.8	161.5	172.5	201.8	227.5	234.8
85°	18.3	22.0	33.0	51.4	69.7	84.4	80.7	77.1	77.1	73.4	77.1
87.5°	7.3	7.3	11.0	11.0	11.0	14.7	18.3	18.3	18.3	22.0	22.0
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°	8582.8	8582.8	8582.8	8582.8	8582.8	8582.8	8582.8	8582.8	8582.8	8582.8	8582.8
2.5°	8593.8	8447.0	8311.2	8061.7	7790.2	7713.1	7397.6	7283.8	7203.1	7107.7	7078.3
5°	8637.8	8443.3	8006.7	7504.0	7104.0	6590.3	6252.7	5889.4	5625.2	5559.2	5540.8
7.5°	8729.6	8395.6	7643.4	6883.8	6065.6	5368.4	4836.3	4550.1	4296.9	4282.2	4256.5
10°	8832.3	8252.5	7247.1	6054.6	5008.8	4362.9	4043.7	3918.9	3856.6	3841.9	3834.5
12.5°	8916.7	8223.2	6803.1	5247.3	4260.2	3871.2	3775.8	3764.8	3790.5	3797.9	3812.5
15°	8953.4	8105.8	6267.4	4524.4	3794.2	3651.1	3691.4	3735.5	3753.8	3801.5	3764.8
17.5°	9023.1	7955.3	5606.9	3952.0	3533.7	3559.3	3629.1	3680.4	3709.8	3742.8	3695.1
20°	9059.8	7819.5	4986.7	3610.7	3441.9	3489.6	3585.0	3625.4	3662.1	3676.8	3621.7
22.5°	9026.8	7540.7	4440.0	3335.5	3353.9	3416.2	3500.6	3544.7	3522.6	3463.9	3430.9
25°	8938.7	7148.0	3871.2	3159.4	3229.1	3339.2	3405.2	3372.2	3331.8	3298.8	3287.8
27.5°	8935.1	6667.3	3460.3	2997.9	3122.7	3273.1	3251.1	3221.8	3240.1	3214.4	3185.1
30°	8953.4	6201.3	3122.7	2906.2	3045.6	3119.0	3144.7	3115.3	3137.4	3089.7	3104.3
32.5°	8858.0	5746.3	2902.5	2799.8	2953.9	2950.2	3034.6	3056.6	3005.3	2906.2	2920.9
35°	8898.4	5379.4	2715.4	2752.1	2851.1	2851.1	2917.2	2891.5	2755.7	2697.0	2711.7
37.5°	9177.2	5019.8	2623.6	2686.0	2752.1	2781.4	2759.4	2649.3	2616.3	2616.3	2623.6
40°	9441.4	4711.5	2568.6	2671.3	2660.3	2678.7	2517.2	2528.2	2528.2	2531.9	2513.6
42.5°	9676.3	4502.4	2524.6	2583.3	2601.6	2506.2	2407.1	2396.1	2421.8	2418.2	2403.5
45°	9760.7	4329.9	2462.2	2484.2	2498.9	2341.1	2293.4	2271.4	2300.7	2311.7	2326.4
47.5°	9437.8	4186.8	2392.5	2348.4	2319.1	2216.3	2154.0	2113.6	2150.3	2212.7	2227.3
50°	9023.1	3999.7	2282.4	2198.0	2135.6	2091.6	2047.5	2007.2	2032.9	2076.9	2065.9
52.5°	8410.3	3706.1	2142.9	2054.9	1948.5	1959.5	1919.1	1897.1	1911.8	1911.8	1900.8
55°	7537.0	3045.6	1908.1	1845.7	1757.7	1787.0	1794.3	1765.0	1735.6	1761.3	1739.3
57.5°	5144.5	2150.3	1702.6	1702.6	1614.5	1654.9	1651.2	1581.5	1511.8	1519.1	1504.5
60°	2975.9	1713.6	1570.5	1555.8	1464.1	1497.1	1504.5	1456.8	1350.3	1357.7	1343.0
62.5°	1691.6	1464.1	1372.4	1350.3	1332.0	1361.4	1361.4	1299.0	1207.2	1214.6	1199.9
65°	1438.4	1357.7	1225.6	1221.9	1214.6	1221.9	1192.6	1126.5	1045.8	1012.8	1016.4
67.5°	1306.3	1254.9	1126.5	1093.5	1071.5	1067.8	1012.8	950.4	913.7	884.3	880.7
70°	1144.9	1104.5	1009.1	965.1	943.0	891.7	836.6	796.3	744.9	730.2	744.9
72.5°	906.3	902.7	866.0	818.3	770.6	730.2	682.5	627.5	579.8	568.8	543.1
75°	627.5	634.8	642.1	634.8	594.4	543.1	488.0	444.0	385.3	352.3	344.9
77.5°	411.0	422.0	433.0	418.3	392.6	344.9	308.2	253.2	209.2	183.5	179.8
80°	300.9	315.6	322.9	311.9	282.5	245.9	205.5	161.5	128.4	106.4	106.4
82.5°	231.2	245.9	253.2	234.8	205.5	176.1	146.8	113.8	88.1	69.7	66.0
85°	80.7	77.1	91.7	95.4	113.8	106.4	88.1	66.0	51.4	36.7	33.0
87.5°	22.0	22.0	25.7	25.7	22.0	18.3	18.3	18.3	14.7	11.0	11.0
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)