

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: P532873

Luminaire Tested: **GALN-SA8B-730-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532873  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8B-730-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25449.1 lumens  
Efficiency: N/A  
Efficacy: 78.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

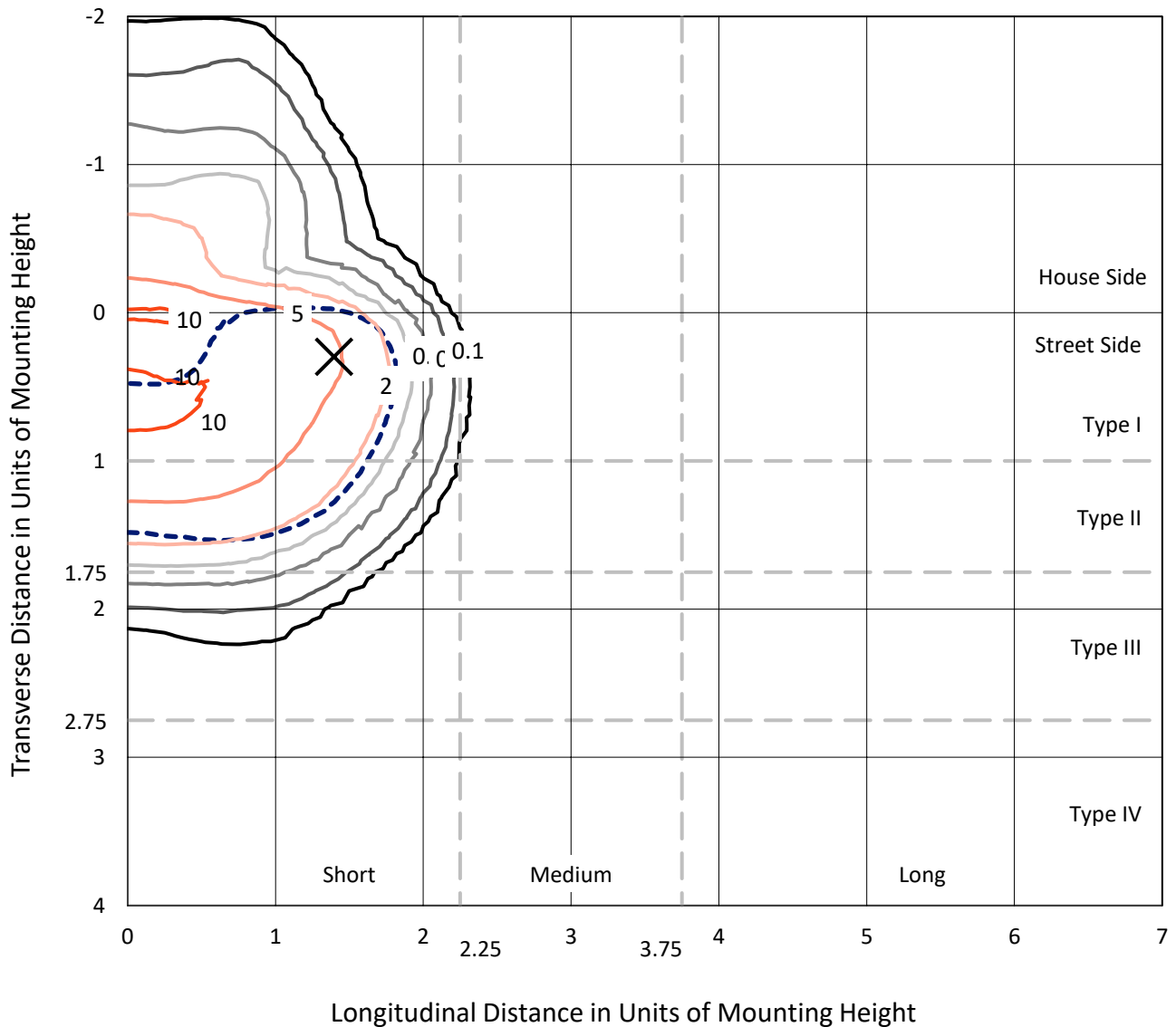
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

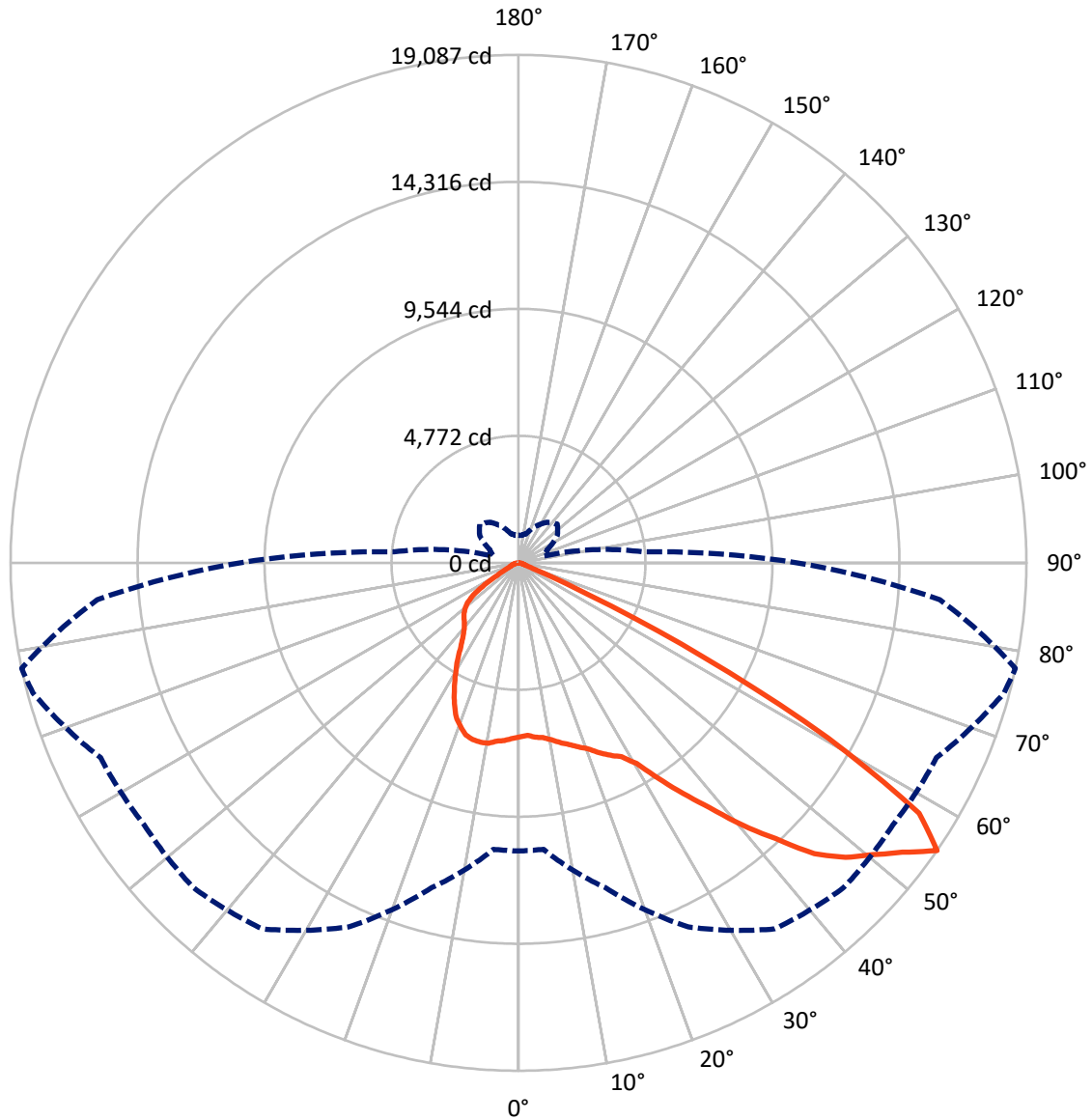
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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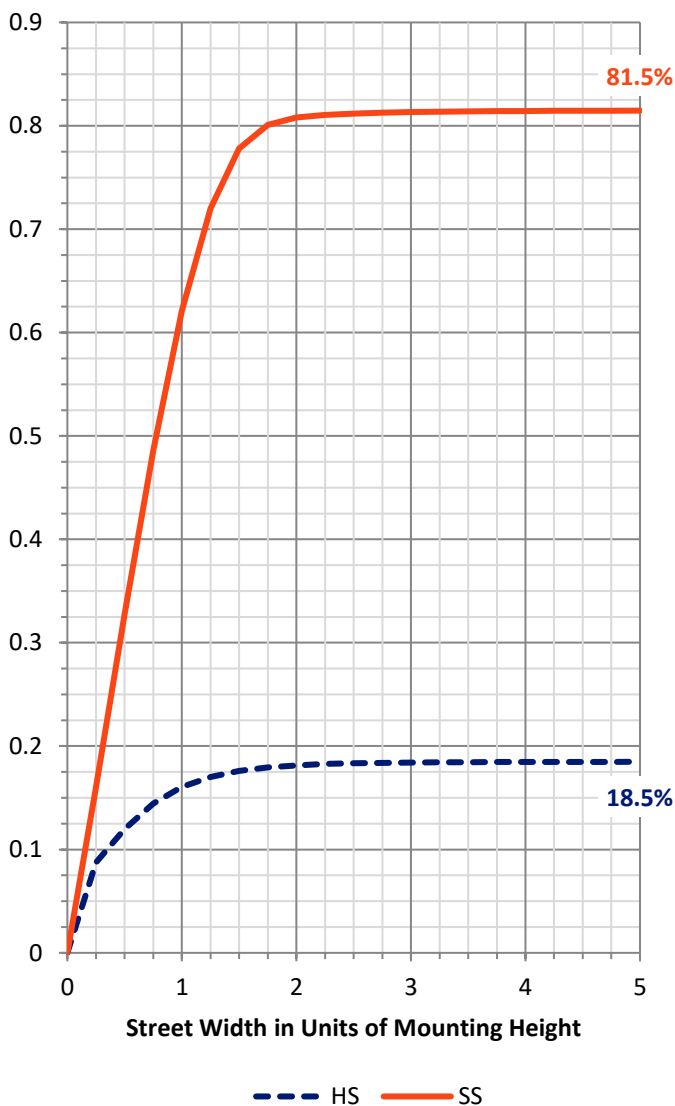
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4726.9	0.0	4726.9
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	20722.2	0.0	20722.2
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	25449.1	0.0	25449.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	583.4	2.3
10°-20°	1544.0	6.1
20°-30°	2706.4	10.6
30°-40°	4462.6	17.5
40°-50°	6493.6	25.5
50°-60°	7357.9	28.9
60°-70°	2103.8	8.3
70°-80°	163.4	0.6
80°-90°	34.0	0.1
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°	25449.1	100.0
0°-180°	25449.1	100.0

**Coefficient of Utilization**

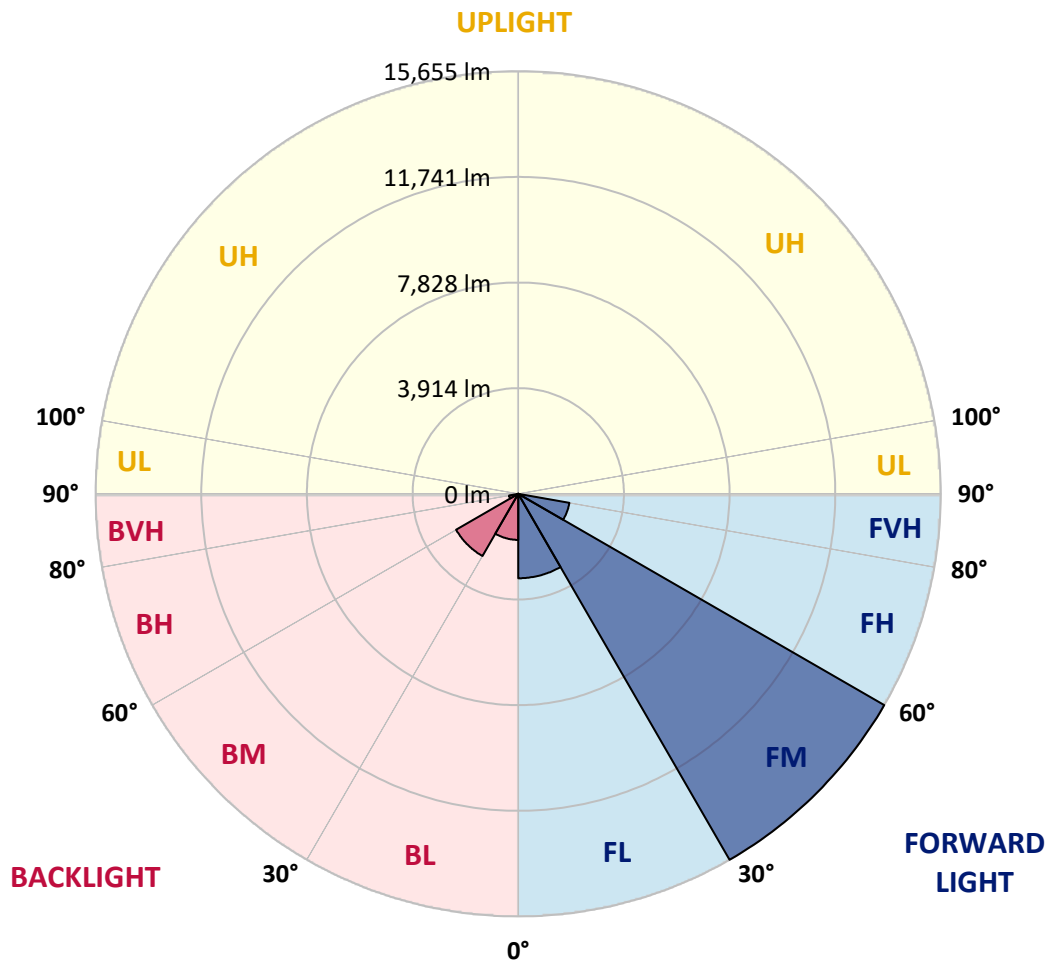


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3128.4	12.3			
FM (30°-60°)	15655.1	61.5			
FH (60°-80°)	1922.1	7.6			G2/5000
FVH (80°-90°)	16.6	0.1			G1/100
BL (0°-30°)	1705.5	6.7	B3/2500		
BM (30°-60°)	2659.0	10.4	B3/5000		
BH (60°-80°)	345.1	1.4	B1/500		G1/500
BVH (80°-90°)	17.4	0.1			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°	55°	65°	75°	78°	85°
0°	6543.0	6543.0	6543.0	6543.0	6543.0	6543.0	6543.0	6543.0	6543.0	6543.0	6543.0
2.5°	6151.6	6210.8	6219.9	6292.7	6288.2	6411.0	6447.4	6452.0	6533.9	6492.9	6597.6
5°	5978.7	5946.9	5933.2	6060.6	6097.0	6206.3	6297.3	6351.9	6520.2	6579.4	6688.6
7.5°	5824.0	5824.0	5833.1	5946.9	5933.2	6074.3	6169.8	6338.2	6583.9	6634.0	6765.9
10°	5673.9	5619.3	5687.5	5805.8	5905.9	5969.6	6169.8	6329.1	6615.8	6761.4	6943.4
12.5°	5596.5	5623.8	5632.9	5719.4	5828.6	6019.7	6128.9	6392.8	6843.3	6929.7	7125.4
15°	6083.4	6028.8	5896.8	5819.5	5910.5	6001.5	6274.5	6543.0	6961.6	7084.4	7302.8
17.5°	6647.6	6602.1	6492.9	6283.6	6078.8	6247.2	6461.1	6706.8	7089.0	7271.0	7594.0
20°	7384.7	7311.9	7202.7	6793.2	6615.8	6433.8	6661.3	6952.5	7298.3	7462.1	7794.2
22.5°	8262.9	8262.9	8017.2	7521.2	7152.7	6979.8	7075.3	7243.7	7530.3	7753.3	8080.9
25°	9177.4	9150.1	8927.2	8413.0	7789.7	7584.9	7694.1	7812.4	7889.8	8012.6	8231.0
27.5°	10223.9	10064.7	9782.6	9213.8	8663.3	8267.4	8385.7	8281.1	8185.5	8249.2	8563.2
30°	10933.7	11033.8	10674.4	10128.4	9609.7	9168.3	9191.1	9100.1	8663.3	8754.3	8940.8
32.5°	11670.8	11734.5	11534.3	11234.0	10715.3	10201.2	10014.6	9937.3	9609.7	9650.6	9468.6
35°	12285.1	12408.0	12230.5	12098.5	11948.4	11534.3	11020.2	11270.4	10742.6	10642.5	10169.3
37.5°	12849.3	12812.9	13022.2	12885.7	12853.9	12562.7	11998.4	12048.5	11693.6	11670.8	11124.8
40°	13354.4	13363.5	13650.1	13713.8	13586.4	13067.7	12248.7	12644.6	12931.2	12958.5	12257.8
42.5°	13773.0	13895.8	14141.5	14655.7	14464.6	13600.1	12508.1	12940.3	14005.0	14173.4	13331.6
45°	14137.0	14387.2	14692.1	15151.6	15042.4	14355.4	13154.2	13550.0	15151.6	15593.0	14341.7
47.5°	14159.7	14487.3	14819.5	15502.0	15638.5	14760.3	13823.0	14514.6	16061.6	16539.4	15078.8
50°	14068.7	14241.6	14905.9	15647.6	15957.0	15420.1	14760.3	15324.5	16944.3	17244.6	15451.9
52.5°	12990.4	13122.3	14455.5	15784.1	16530.3	16166.3	16002.5	16452.9	17845.2	18068.2	15802.3
55°	10829.1	10806.3	12640.0	15097.0	16794.2	17271.9	17171.8	17331.1	18887.2	19087.4	15888.7
57.5°	7407.5	7821.5	9404.9	12571.8	15178.9	17012.6	17117.2	16853.3	17672.3	17749.7	13850.3
60°	3994.9	4167.8	5441.8	8390.3	11557.1	13864.0	14137.0	13659.2	13595.5	13377.1	9887.2
62.5°	1588.0	1674.4	2397.9	4154.2	6297.3	8426.7	9013.6	8818.0	8399.4	7826.1	5118.8
65°	755.3	809.9	1192.1	1942.9	2793.7	3512.6	4099.6	4281.6	3157.7	2843.8	1688.1
67.5°	514.2	555.1	869.1	1110.2	996.5	1042.0	1355.9	1260.4	741.7	632.5	468.7
70°	391.3	418.6	696.2	755.3	445.9	314.0	350.4	327.6	304.9	309.4	304.9
72.5°	277.6	300.3	509.6	445.9	195.7	145.6	186.6	223.0	223.0	223.0	218.4
75°	168.4	191.1	295.8	172.9	77.4	77.4	118.3	150.2	159.3	163.8	154.7
77.5°	86.5	109.2	100.1	50.1	50.1	59.2	86.5	104.7	113.8	113.8	109.2
80°	18.2	18.2	18.2	27.3	50.1	63.7	86.5	95.6	109.2	109.2	100.1
82.5°	0.0	4.6	13.7	27.3	45.5	59.2	81.9	95.6	109.2	113.8	104.7
85°	0.0	4.6	9.1	18.2	31.9	36.4	31.9	27.3	27.3	27.3	27.3
87.5°	0.0	0.0	4.6	4.6	4.6	9.1	9.1	9.1	9.1	9.1	9.1
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°	6543.0	6543.0	6543.0	6543.0	6543.0	6543.0	6543.0	6543.0	6543.0	6543.0	6543.0
2.5°	6606.7	6620.3	6597.6	6593.0	6574.8	6629.4	6497.5	6465.6	6547.5	6470.2	6488.4
5°	6693.1	6725.0	6684.0	6615.8	6515.7	6361.0	6229.0	6056.1	5974.2	5915.0	5905.9
7.5°	6756.8	6779.6	6738.6	6520.2	6219.9	5828.6	5537.4	5323.5	5155.2	5105.1	5023.2
10°	7016.2	7020.7	6816.0	6333.7	5746.7	5232.5	4786.6	4459.0	4290.7	4186.0	4140.5
12.5°	7189.1	7180.0	6765.9	5965.1	5182.5	4500.0	3990.4	3594.5	3439.8	3389.8	3357.9
15°	7407.5	7357.4	6647.6	5587.4	4454.5	3717.4	3257.8	2984.8	2971.2	2939.3	2971.2
17.5°	7580.4	7439.3	6474.7	4900.4	3758.3	3062.2	2761.9	2780.1	2816.5	2848.3	2852.9
20°	7862.5	7571.3	6078.8	4299.8	3112.2	2625.4	2620.8	2702.7	2793.7	2830.1	2866.5
22.5°	8076.3	7625.9	5655.7	3658.2	2584.4	2447.9	2525.3	2648.1	2716.4	2752.8	2807.4
25°	8153.7	7475.7	5091.5	3016.7	2329.6	2366.0	2484.3	2566.2	2652.7	2693.6	2670.9
27.5°	8231.0	7398.4	4418.1	2484.3	2193.1	2311.4	2411.5	2493.4	2520.7	2575.3	2611.7
30°	8417.6	7129.9	3812.9	2147.6	2124.9	2275.0	2347.8	2375.1	2447.9	2479.8	2479.8
32.5°	8567.7	7025.3	3171.4	1988.4	2115.8	2293.2	2302.3	2302.3	2311.4	2288.7	2279.6
35°	8877.1	6665.8	2598.1	1892.8	2111.2	2297.8	2320.5	2243.2	2033.9	1952.0	1929.2
37.5°	9259.3	6433.8	2174.9	1870.1	2143.1	2352.4	2388.8	2097.6	1824.6	1692.6	1669.9
40°	9723.4	6270.0	1897.4	1861.0	2215.9	2479.8	2370.6	1983.8	1628.9	1437.8	1428.7
42.5°	10264.9	6119.8	1710.8	1856.4	2306.9	2611.7	2352.4	1888.3	1428.7	1301.3	1319.5
45°	10697.1	6037.9	1583.4	1824.6	2338.7	2689.1	2366.0	1719.9	1346.8	1264.9	1274.0
47.5°	11033.8	5865.0	1478.8	1770.0	2334.2	2716.4	2243.2	1651.7	1305.9	1328.6	1351.4
50°	11042.9	5632.9	1346.8	1651.7	2265.9	2666.3	2102.1	1588.0	1296.8	1392.3	1437.8
52.5°	10920.1	5305.3	1205.8	1483.3	2106.7	2493.4	1974.7	1560.7	1255.8	1246.7	1301.3
55°	10483.3	4691.1	969.2	1201.2	1779.1	2056.6	1861.0	1510.6	1133.0	1028.3	1037.4
57.5°	8472.2	3362.5	714.4	860.0	1260.4	1506.1	1679.0	1487.9	1019.2	873.6	878.2
60°	5246.2	1906.5	523.3	587.0	778.1	914.6	1360.5	1383.2	910.0	737.1	728.0
62.5°	2693.6	941.9	405.0	414.1	477.8	536.9	932.8	1160.3	823.6	700.7	700.7
65°	900.9	464.1	354.9	318.5	318.5	332.2	564.2	805.4	696.2	587.0	587.0
67.5°	386.8	345.8	309.4	277.6	254.8	241.2	318.5	468.7	518.7	445.9	427.7
70°	300.3	291.2	268.5	232.1	200.2	182.0	186.6	241.2	295.8	286.7	277.6
72.5°	223.0	223.0	213.9	182.0	154.7	132.0	122.9	127.4	141.1	145.6	150.2
75°	154.7	159.3	159.3	141.1	113.8	95.6	81.9	68.3	54.6	45.5	41.0
77.5°	104.7	109.2	118.3	104.7	86.5	63.7	50.1	36.4	22.8	9.1	9.1
80°	91.0	104.7	113.8	104.7	91.0	68.3	50.1	27.3	13.7	0.0	0.0
82.5°	95.6	104.7	118.3	100.1	86.5	63.7	50.1	31.9	13.7	4.6	0.0
85°	22.8	22.8	27.3	31.9	41.0	45.5	36.4	22.8	13.7	4.6	0.0
87.5°	9.1	9.1	9.1	9.1	9.1	4.6	4.6	4.6	4.6	0.0	0.0
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)