

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: P531035

Luminaire Tested: **GALN-SA6B-740-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531035  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6B-740-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25171 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

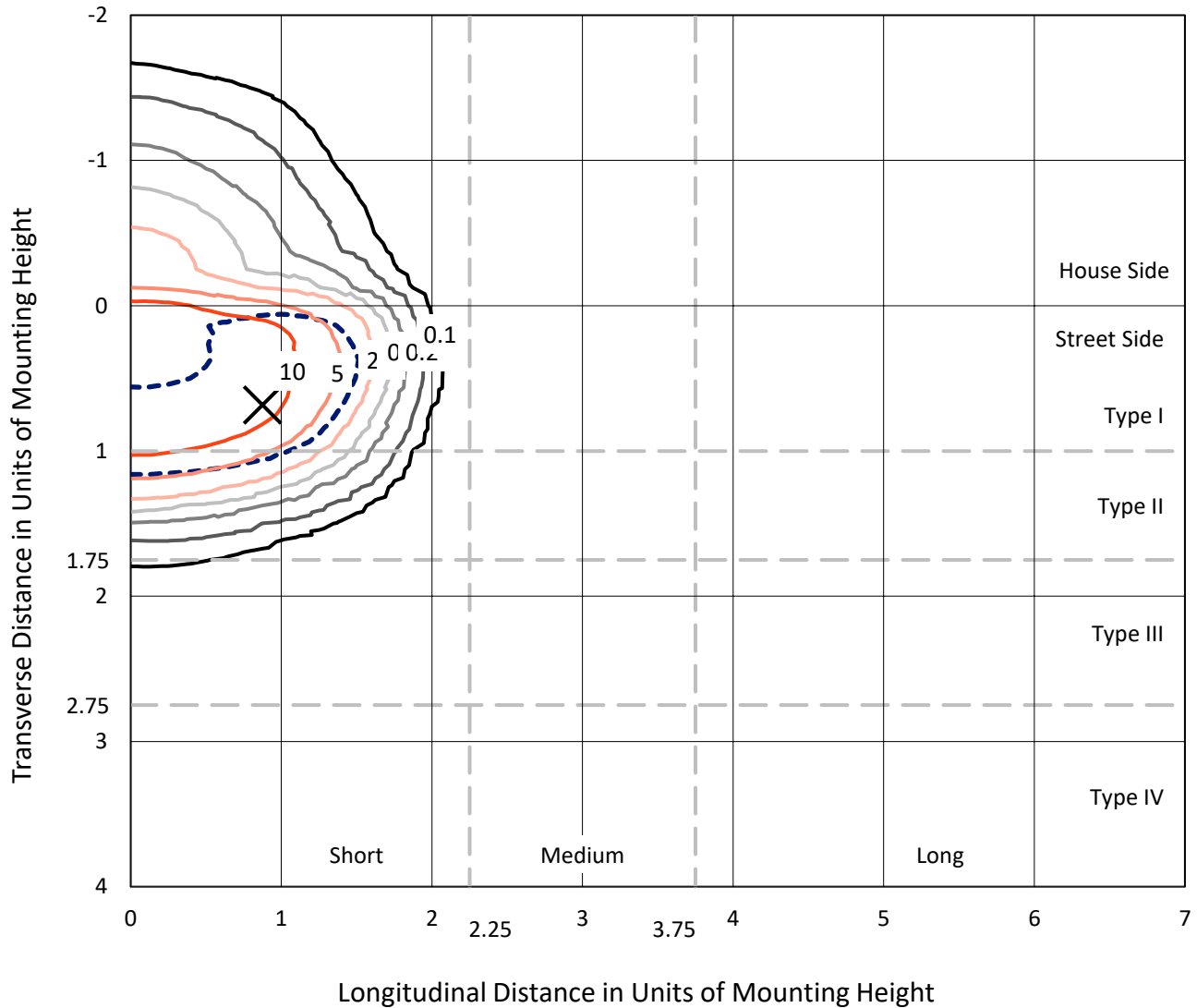
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

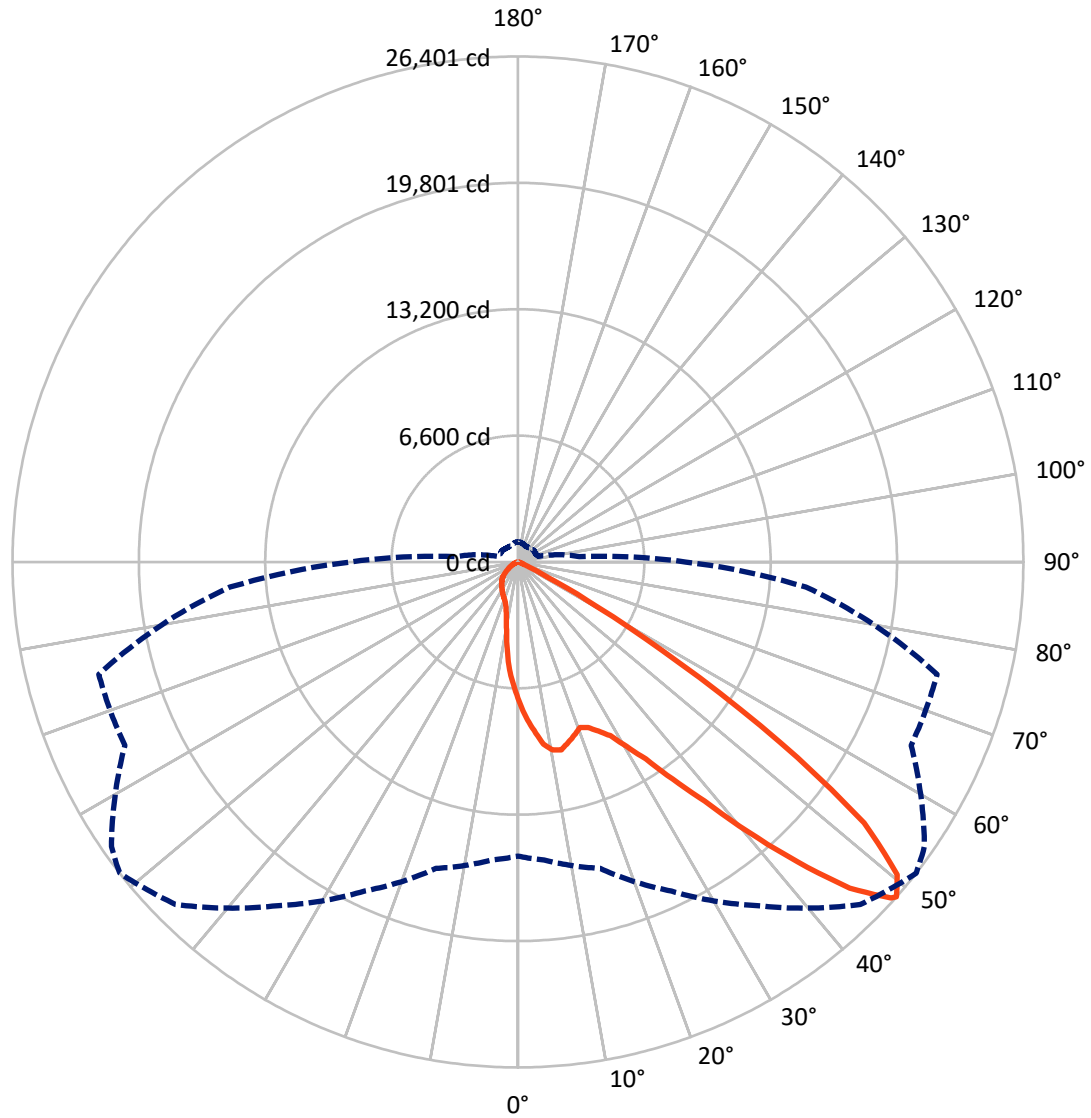
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 48-Deg Vertical

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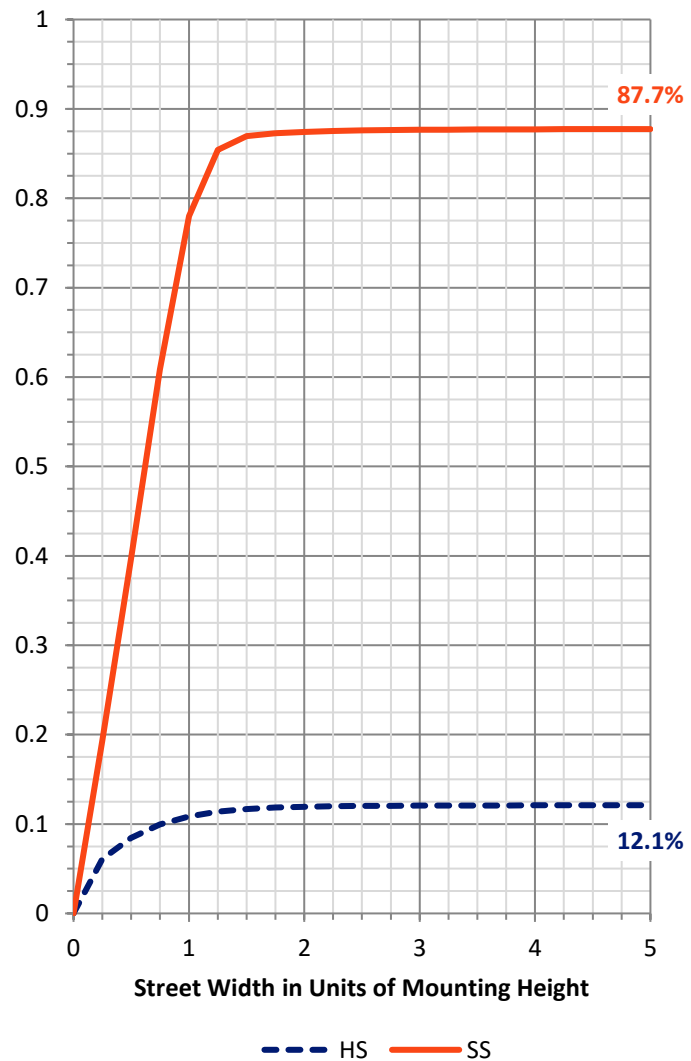
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3064.8	0.0	3064.8
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	22106.2	0.0	22106.2
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	25171.0	0.0	25171.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	665.3	2.6
10°-20°	1738.7	6.9
20°-30°	2968.7	11.8
30°-40°	5466.9	21.7
40°-50°	8490.0	33.7
50°-60°	5109.6	20.3
60°-70°	591.0	2.3
70°-80°	114.4	0.5
80°-90°	26.5	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°	25171.0	100.0
0°-180°	25171.0	100.0



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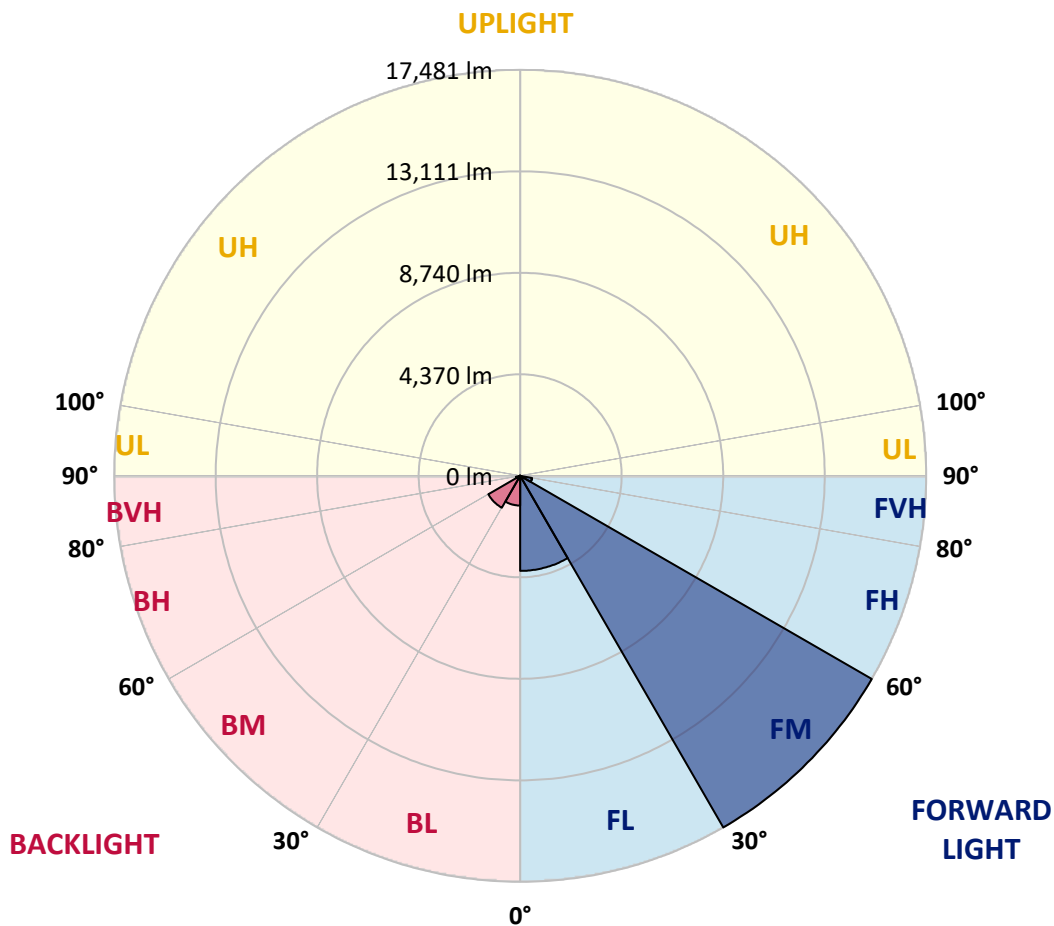
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4092.5	16.3			
FM (30°-60°)	17480.8	69.4			
FH (60°-80°)	520.4	2.1			G0/660
FVH (80°-90°)	12.6	0.1			G1/100
BL (0°-30°)	1280.3	5.1	B3/2500		
BM (30°-60°)	1585.7	6.3	B2/2500		
BH (60°-80°)	185.0	0.7	B1/500		G1/500
BVH (80°-90°)	13.9	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	7269.0	7269.0	7269.0	7269.0	7269.0	7269.0	7269.0	7269.0	7269.0	7269.0	7269.0
2.5°	8810.1	8608.3	8626.6	8494.5	8417.5	8292.7	8123.9	8090.9	7907.4	7657.9	7404.7
5°	9602.7	9555.0	9617.3	9426.5	9433.9	9228.4	8832.1	8839.4	8417.5	8010.2	7617.6
7.5°	9654.0	9544.0	9606.3	9775.1	9874.2	9837.5	9613.7	9419.2	9019.2	8421.1	7848.7
10°	8645.0	8854.1	8920.2	9199.0	9595.3	10013.6	9987.9	9999.0	9665.0	8883.5	8046.9
12.5°	8039.5	7900.1	8123.9	8292.7	8890.8	9701.7	10072.3	10153.1	10178.8	9331.1	8245.0
15°	7764.3	7764.3	7801.0	7848.7	8281.7	9030.3	9786.1	10021.0	10575.0	9918.2	8556.9
17.5°	7936.8	7929.4	7980.8	7881.7	8043.2	8619.3	9521.9	9789.8	11019.0	10494.3	8802.8
20°	8461.5	8487.2	8454.2	8168.0	8179.0	8611.9	9228.4	9650.4	11319.9	10993.3	9129.3
22.5°	9191.7	9206.4	9019.2	8707.3	8615.6	8828.4	9397.2	9720.1	11562.1	11591.5	9228.4
25°	10035.7	9976.9	9940.2	9499.9	9221.1	9404.5	9778.8	9965.9	11712.5	12105.2	9510.9
27.5°	11206.2	11088.8	10864.9	10472.3	10266.8	10006.3	10274.2	10582.4	12141.9	12824.4	9819.2
30°	12934.4	12831.7	12395.0	11888.7	11349.3	11092.4	11176.8	11345.6	12916.1	13657.3	10226.5
32.5°	15536.0	15319.5	14688.4	13723.3	12989.5	12281.3	12259.3	12439.1	13609.6	14809.5	10710.8
35°	18401.8	18335.7	17407.4	16413.0	14992.9	13899.5	13917.8	14013.2	14937.9	16321.2	11345.6
37.5°	20306.1	20669.4	20078.6	19010.9	17818.3	16255.2	15858.9	15891.9	16761.6	18111.9	12490.4
40°	21777.5	21469.3	21539.0	21289.5	20474.9	19410.8	18533.8	18361.4	18871.4	20093.3	13627.9
42.5°	21135.4	21150.1	21579.4	22170.2	22372.0	22294.9	21399.6	21073.0	20676.7	21715.2	14710.4
45°	19322.8	19700.7	20258.4	21821.6	23193.9	24481.9	24305.7	23762.7	21924.3	22999.4	15334.2
47.5°	16431.3	16416.6	17330.3	19363.1	22412.3	25428.5	26228.5	25846.8	22808.6	22856.3	15205.8
48°	15363.5	15627.7	16570.7	18963.2	21917.0	25289.1	26400.9	25920.2	22658.2	22665.5	15095.7
50°	11356.6	11308.9	12483.1	15418.6	19575.9	23762.7	25674.4	26048.7	22654.5	21700.5	14325.1
52.5°	5999.4	6204.9	7059.8	9694.4	13840.8	19447.5	22647.2	23230.6	21854.6	20122.7	13217.0
55°	2550.2	2304.3	2961.2	4377.5	7786.3	12993.1	16614.8	17913.7	18478.8	17807.3	11562.1
57.5°	910.0	994.4	1144.8	1647.5	3273.1	7111.2	9907.2	10916.3	12802.3	13066.5	7878.1
60°	583.4	594.4	642.1	755.9	1229.2	2741.0	4700.4	5504.0	6359.0	6564.5	3676.7
62.5°	451.3	455.0	477.0	495.4	583.4	1064.1	1765.0	2091.5	2172.3	1867.7	965.0
65°	377.9	381.6	389.0	389.0	414.6	499.0	616.4	678.8	660.5	653.1	546.7
67.5°	289.9	297.2	311.9	311.9	326.6	304.6	341.2	363.3	411.0	499.0	466.0
70°	227.5	231.2	242.2	249.5	249.5	220.2	245.8	267.9	300.9	370.6	366.9
72.5°	176.1	183.5	190.8	190.8	179.8	150.4	176.1	194.5	216.5	256.9	249.5
75°	135.8	135.8	139.4	113.7	88.1	77.1	106.4	128.4	161.5	168.8	139.4
77.5°	36.7	40.4	36.7	33.0	36.7	55.0	69.7	80.7	102.7	102.7	91.7
80°	0.0	3.7	11.0	22.0	36.7	51.4	62.4	69.7	80.7	88.1	84.4
82.5°	0.0	3.7	11.0	22.0	33.0	40.4	55.0	58.7	66.0	77.1	77.1
85°	0.0	3.7	7.3	14.7	22.0	25.7	25.7	22.0	22.0	18.3	14.7
87.5°	0.0	0.0	3.7	7.3	7.3	11.0	11.0	11.0	11.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7269.0	7269.0	7269.0	7269.0	7269.0	7269.0	7269.0	7269.0	7269.0	7269.0	7269.0
2.5°	7305.7	7191.9	7019.5	6747.9	6487.4	6318.6	6157.2	5977.4	5878.3	5870.9	5815.9
5°	7393.7	7136.9	6725.9	6259.9	5760.9	5331.6	4898.6	4616.0	4362.8	4223.4	4197.7
7.5°	7441.4	7107.5	6443.4	5661.8	4810.5	4109.7	3625.3	3269.4	3129.9	3027.2	3023.5
10°	7540.5	7056.1	6021.4	4869.2	3816.1	3107.9	2774.0	2612.6	2535.5	2506.2	2462.1
12.5°	7613.9	6960.7	5588.4	4054.6	3016.2	2575.9	2429.1	2392.4	2396.1	2410.8	2392.4
15°	7716.6	6876.3	5005.0	3328.1	2531.8	2319.0	2319.0	2326.4	2377.7	2385.1	2381.4
17.5°	7709.3	6711.2	4403.2	2741.0	2238.3	2208.9	2220.0	2289.7	2322.7	2333.7	2308.0
20°	7797.4	6557.1	3783.1	2341.0	2073.2	2117.2	2190.6	2208.9	2249.3	2256.6	2227.3
22.5°	7771.7	6171.8	3207.0	2025.5	1948.4	2032.8	2106.2	2128.2	2117.2	2095.2	2091.5
25°	7724.0	5841.6	2678.6	1816.3	1856.7	1948.4	2018.1	1977.8	1955.8	1959.4	1963.1
27.5°	7639.6	5423.3	2242.0	1669.6	1731.9	1867.7	1864.0	1849.3	1871.4	1853.0	1871.4
30°	7624.9	5005.0	1882.4	1537.5	1640.2	1739.3	1746.6	1772.3	1798.0	1765.0	1798.0
32.5°	7646.9	4546.3	1625.5	1456.7	1585.2	1588.8	1669.6	1695.2	1676.9	1603.5	1610.8
35°	7815.7	4194.1	1438.4	1412.7	1497.1	1500.8	1577.8	1544.8	1464.1	1420.0	1445.7
37.5°	8171.6	3900.5	1350.3	1372.3	1379.7	1427.4	1431.0	1365.0	1372.3	1368.7	1383.3
40°	8626.6	3676.7	1287.9	1335.6	1328.3	1361.3	1229.2	1265.9	1298.9	1310.0	1317.3
42.5°	8938.5	3515.2	1247.6	1276.9	1262.3	1203.5	1130.2	1166.9	1192.5	1232.9	1240.2
45°	9078.0	3386.8	1199.9	1174.2	1174.2	1067.8	1038.4	1045.8	1104.5	1148.5	1141.2
47.5°	8850.5	3262.0	1115.5	1038.4	1064.1	976.0	943.0	943.0	1005.4	1060.4	1049.4
48°	8762.4	3210.7	1119.1	1009.1	1027.4	961.4	928.3	921.0	990.7	1042.1	1042.1
50°	8325.7	3019.9	1023.7	928.3	891.7	884.3	862.3	869.6	913.7	961.4	961.4
52.5°	7474.4	2608.9	866.0	796.2	730.2	774.2	785.2	770.6	792.6	836.6	832.9
55°	6237.9	2003.5	693.5	660.5	609.1	656.8	678.8	660.5	638.5	671.5	671.5
57.5°	3995.9	1078.8	554.1	561.4	510.0	557.7	576.1	532.1	491.7	517.4	513.7
60°	1801.6	645.8	455.0	444.0	411.0	466.0	495.4	444.0	389.0	407.3	425.6
62.5°	675.2	458.7	344.9	337.6	330.2	381.6	396.3	355.9	300.9	311.9	315.6
65°	495.4	403.6	275.2	249.5	264.2	300.9	293.5	253.2	216.5	216.5	223.8
67.5°	422.0	352.3	223.8	194.5	194.5	198.1	183.5	161.5	150.4	157.8	165.1
70°	330.2	278.9	176.1	150.4	135.8	121.1	106.4	102.7	91.7	102.7	99.1
72.5°	212.8	187.1	135.8	113.7	102.7	84.4	69.7	66.0	55.0	51.4	51.4
75°	113.7	113.7	106.4	91.7	80.7	66.0	55.0	44.0	29.4	22.0	22.0
77.5°	80.7	88.1	95.4	88.1	73.4	55.0	44.0	29.4	14.7	7.3	7.3
80°	77.1	88.1	95.4	84.4	73.4	55.0	40.4	22.0	11.0	3.7	3.7
82.5°	69.7	80.7	88.1	77.1	66.0	47.7	36.7	22.0	11.0	3.7	3.7
85°	14.7	18.3	22.0	22.0	25.7	33.0	25.7	18.3	7.3	3.7	3.7
87.5°	11.0	11.0	11.0	11.0	11.0	11.0	7.3	7.3	3.7	3.7	3.7
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)