

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: P530028

Luminaire Tested: **GALN-SA5B-727-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530028  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-727-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20161 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

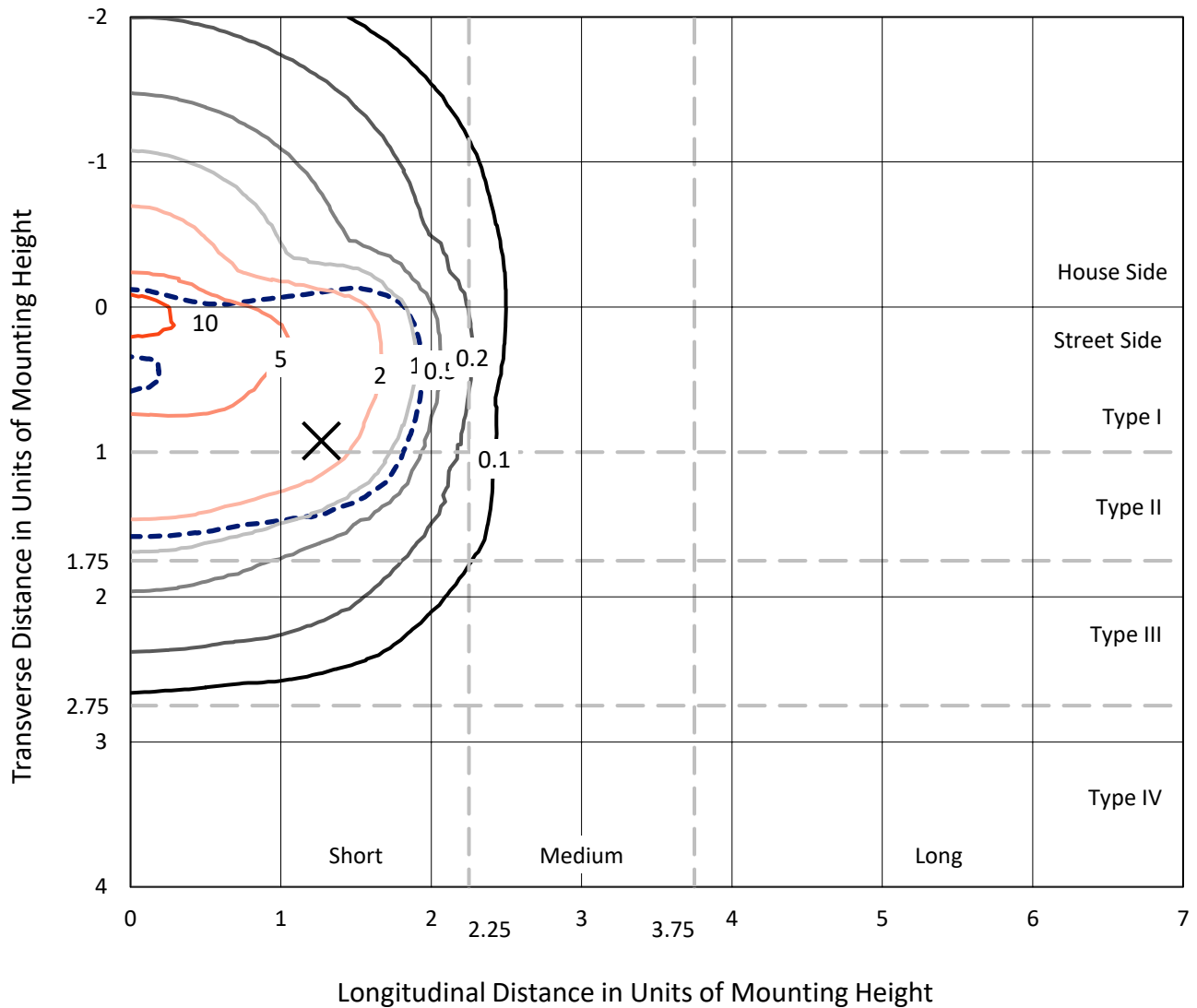
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

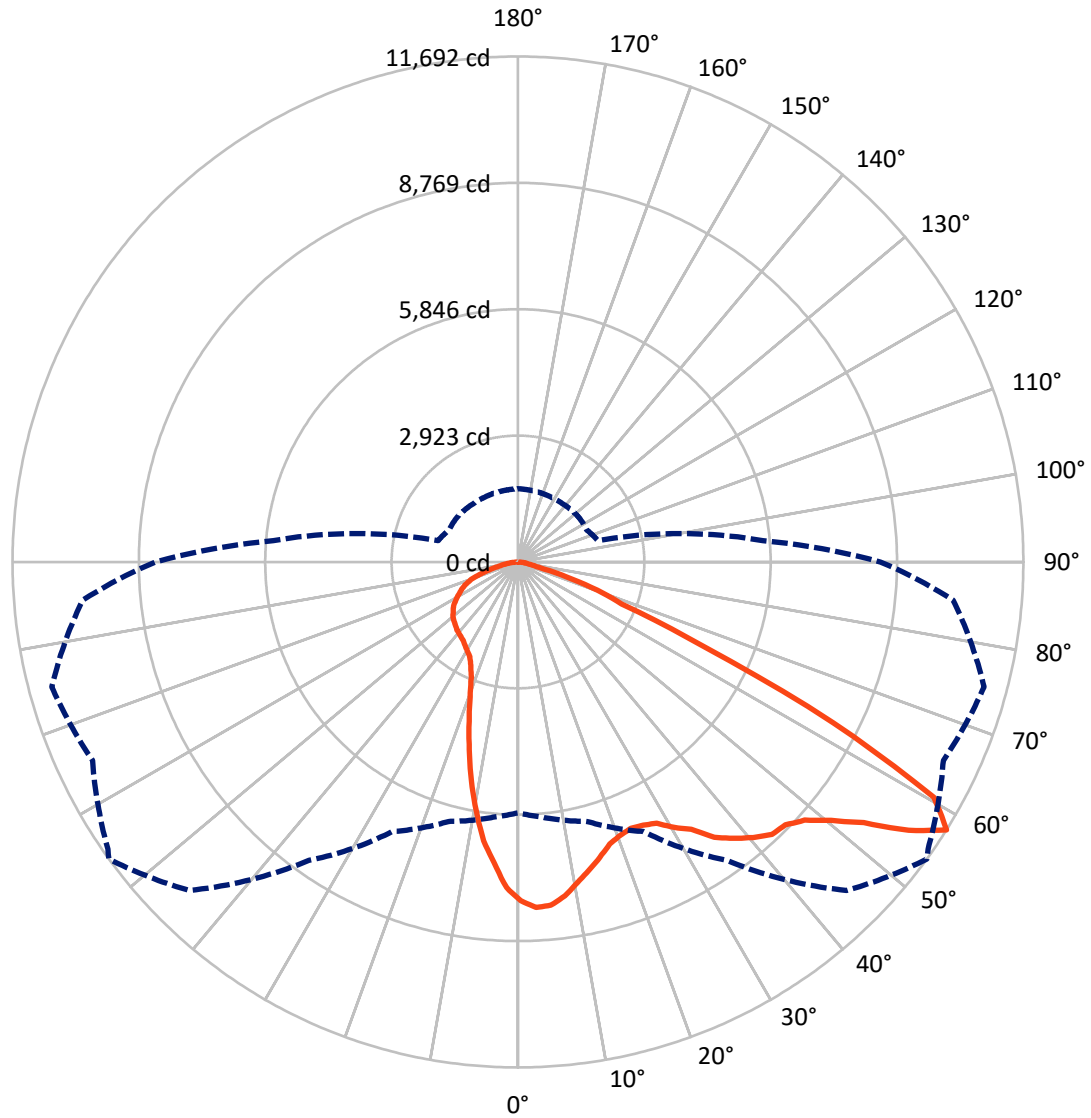
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P530028  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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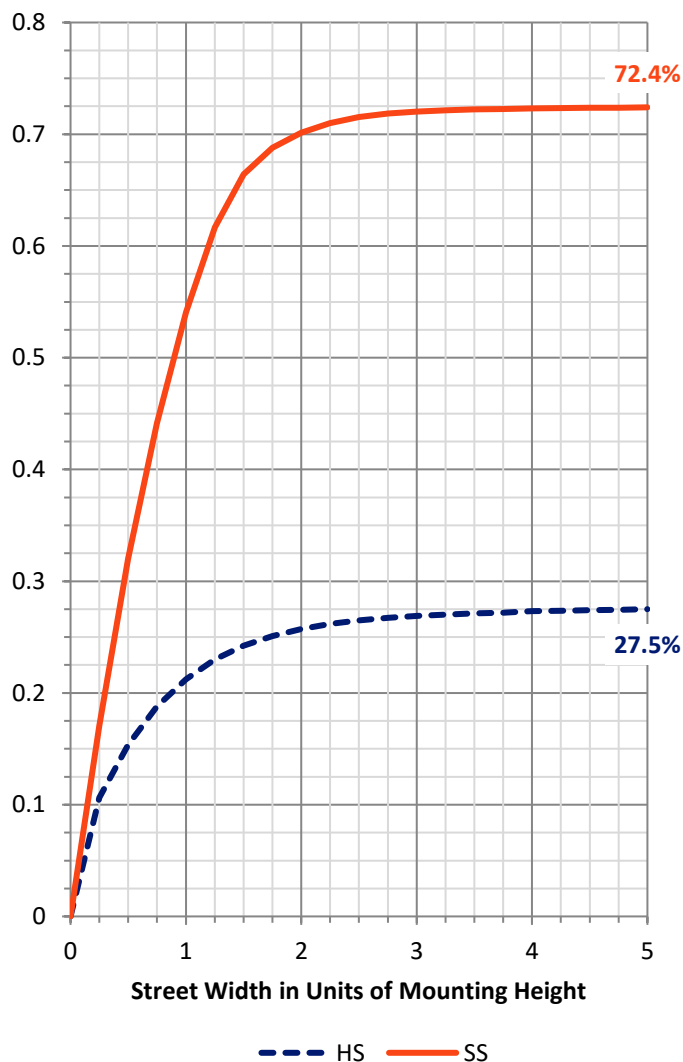
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5577.6	0.0	5577.6
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	14583.4	0.0	14583.4
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	20161.0	0.0	20161.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	675.8	3.4
10°-20°	1564.7	7.8
20°-30°	2198.5	10.9
30°-40°	3073.5	15.2
40°-50°	4160.9	20.6
50°-60°	5068.2	25.1
60°-70°	2639.7	13.1
70°-80°	676.4	3.4
80°-90°	103.2	0.5
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°	20161.0	100.0
0°-180°	20161.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P530028

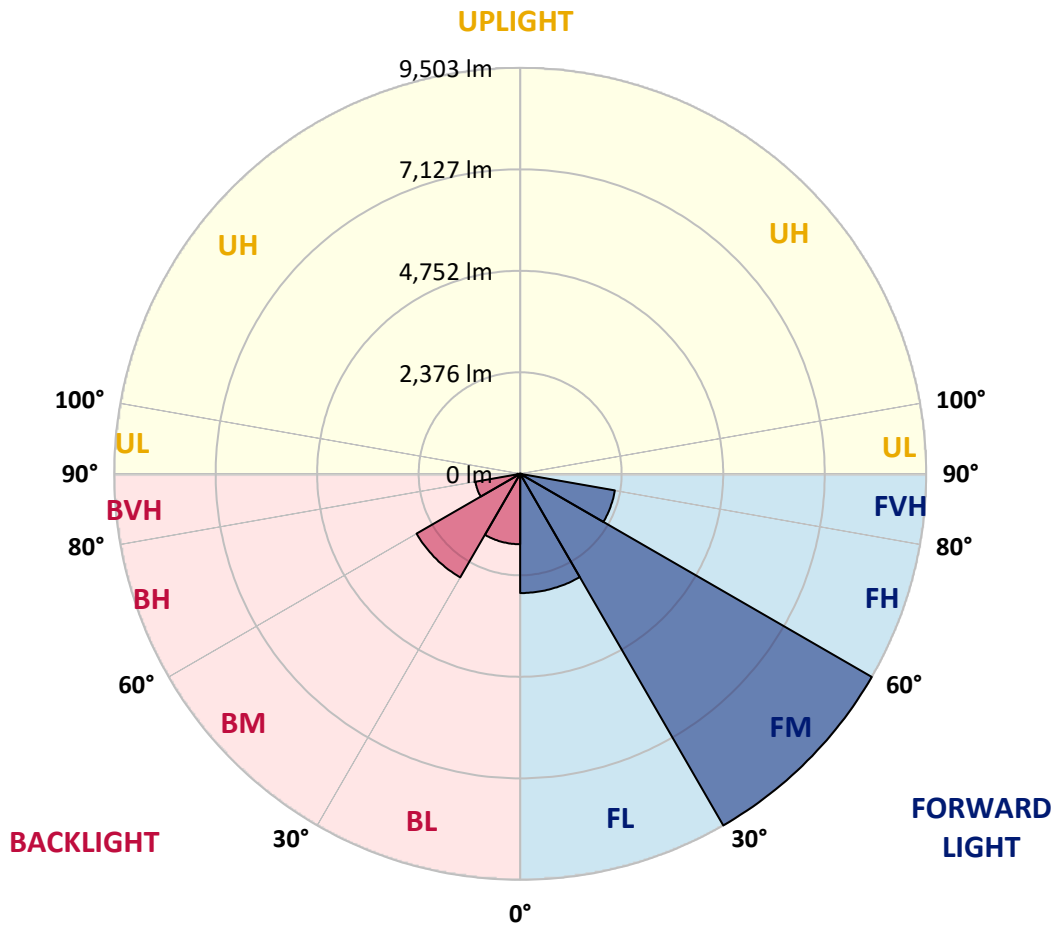
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2790.6	13.8			
FM (30°-60°)	9503.3	47.1			
FH (60°-80°)	2250.5	11.2			G2/5000
FVH (80°-90°)	39.0	0.2			G1/100
BL (0°-30°)	1648.5	8.2	B3/2500		
BM (30°-60°)	2799.4	13.9	B3/5000		
BH (60°-80°)	1065.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	64.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7836.3	7836.3	7836.3	7836.3	7836.3	7836.3	7836.3	7836.3	7836.3	7836.3	7836.3
2.5°	8059.2	8028.1	8033.3	8074.8	8022.9	8002.2	8002.2	7901.1	7908.9	7838.9	7820.8
5°	7872.6	7800.1	7849.3	7911.5	7921.9	7942.6	7976.3	7950.4	7877.8	7802.7	7680.9
7.5°	7385.4	7450.2	7468.4	7512.4	7605.7	7691.2	7797.5	7724.9	7722.3	7647.2	7574.6
10°	6957.9	6919.0	7017.5	7082.3	7237.7	7380.3	7543.5	7535.7	7574.6	7489.1	7364.7
12.5°	6532.9	6501.8	6548.4	6696.1	6913.8	7121.1	7315.5	7242.9	7450.2	7434.7	7167.8
15°	6082.0	6105.3	6172.7	6310.0	6595.1	6843.8	7090.0	7092.6	7276.6	7338.8	6981.2
17.5°	5765.8	5739.9	5825.4	6030.2	6284.1	6582.1	6862.0	6919.0	7201.5	7237.7	6924.2
20°	5530.0	5566.3	5677.7	5781.4	6074.2	6434.4	6750.6	6771.3	7185.9	7284.4	6833.5
22.5°	5473.0	5452.3	5488.6	5657.0	5898.0	6289.3	6691.0	6768.7	7183.3	7268.8	6662.5
25°	5413.4	5480.8	5478.2	5646.6	5822.8	6172.7	6740.2	6825.7	7320.7	7349.2	6685.8
27.5°	5548.2	5540.4	5612.9	5625.9	5843.6	6203.8	6843.8	6908.6	7548.7	7525.4	6703.9
30°	5682.9	5644.0	5688.1	5841.0	5942.0	6382.6	7128.9	7123.7	7844.1	7828.6	6760.9
32.5°	5848.8	5830.6	5859.1	5993.9	6164.9	6621.0	7369.9	7522.8	8144.7	8243.2	6957.9
35°	5879.9	5955.0	6022.4	6203.8	6447.4	7007.1	7823.4	7950.4	8492.0	8800.3	7333.6
37.5°	6076.8	6105.3	6263.4	6584.7	6807.6	7522.8	8111.0	8191.4	8808.1	9158.0	7730.1
40°	6286.7	6320.4	6558.8	6895.7	7201.5	7859.7	8380.5	8406.5	8909.2	9432.6	7989.2
42.5°	6571.8	6602.9	6838.7	7261.1	7670.5	8147.3	8618.9	8647.5	8901.4	9748.8	8401.3
45°	6867.2	6942.3	7219.6	7699.0	8067.0	8484.2	8673.4	8790.0	8974.0	10031.3	8735.6
47.5°	7281.8	7351.8	7579.8	8048.8	8479.0	8779.6	8924.7	9038.8	9147.6	10277.4	8950.6
50°	7722.3	7735.3	8012.6	8437.6	8753.7	9113.9	9393.8	9432.6	9375.6	10562.5	9316.0
52.5°	8046.3	8087.7	8302.8	8717.4	9189.1	9632.2	10015.7	10057.2	9945.7	10668.7	9440.4
55°	7509.8	7486.5	7836.3	8388.3	9481.9	10404.4	10961.6	10992.7	10360.4	10997.8	9847.3
57.5°	5804.7	5916.1	6214.1	6880.1	8424.6	10746.5	11692.3	11580.9	10857.9	11163.7	10106.4
60°	4218.8	4192.9	4392.4	4838.1	6348.9	9261.6	11054.9	11168.9	10451.1	10062.3	8333.9
62.5°	3436.2	3399.9	3415.4	3431.0	4097.0	6146.8	8183.6	8181.0	8048.8	7232.6	5620.7
65°	2746.9	2832.4	2840.2	2956.8	3042.3	3672.0	4742.2	4996.2	4350.9	3568.3	2588.8
67.5°	2070.5	2039.4	2143.1	2557.7	2718.4	2651.0	2588.8	2617.3	1860.6	1342.3	1264.6
70°	1220.5	1207.6	1332.0	1782.9	2239.0	2106.8	1951.3	1953.9	1277.6	938.1	1044.3
72.5°	668.6	666.0	691.9	904.4	1272.4	1321.6	1171.3	1207.6	761.9	759.3	816.3
75°	373.2	365.4	357.6	399.1	458.7	484.6	495.0	500.1	523.5	585.7	609.0
77.5°	137.3	132.2	132.2	152.9	194.4	243.6	308.4	313.6	370.6	425.0	448.3
80°	46.6	51.8	70.0	95.9	129.6	173.6	209.9	215.1	261.7	298.0	305.8
82.5°	28.5	31.1	46.6	67.4	93.3	121.8	155.5	158.1	194.4	217.7	228.0
85°	13.0	15.5	25.9	41.5	59.6	80.3	82.9	82.9	80.3	82.9	77.7
87.5°	0.0	0.0	5.2	5.2	5.2	7.8	10.4	7.8	13.0	15.5	15.5
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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CATALOG NUMBER: GALN-SA5B-727-U-SL3-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7836.3	7836.3	7836.3	7836.3	7836.3	7836.3	7836.3	7836.3	7836.3	7836.3	7836.3
2.5°	7766.4	7737.9	7649.8	7572.0	7548.7	7445.1	7292.2	7310.3	7198.9	7250.7	7196.3
5°	7660.1	7564.3	7338.8	7242.9	6991.6	6877.5	6799.8	6605.4	6514.7	6496.6	6418.9
7.5°	7388.0	7328.4	7046.0	6786.8	6519.9	6291.9	5999.1	5799.5	5657.0	5618.1	5504.1
10°	7173.0	7040.8	6649.5	6255.6	5874.7	5478.2	5097.3	4799.2	4654.1	4485.7	4428.7
12.5°	6960.5	6760.9	6232.3	5727.0	5234.6	4734.5	4273.2	3910.4	3594.3	3519.1	3493.2
15°	6828.3	6481.1	5859.1	5250.1	4550.5	3897.4	3436.2	3197.8	3003.4	2923.1	2980.1
17.5°	6654.7	6250.4	5501.5	4690.4	3920.8	3319.6	2933.4	2785.7	2715.8	2723.5	2700.2
20°	6437.0	6032.7	5032.5	4182.5	3358.4	2879.0	2658.8	2604.3	2614.7	2632.8	2625.1
22.5°	6281.5	5768.4	4693.0	3664.2	2902.4	2635.4	2544.7	2505.9	2539.6	2555.1	2542.1
25°	6162.3	5543.0	4281.0	3205.5	2638.0	2498.1	2456.6	2454.0	2505.9	2526.6	2513.6
27.5°	6053.5	5333.1	3871.5	2855.7	2461.8	2391.8	2378.9	2410.0	2443.7	2464.4	2482.5
30°	5988.7	5172.4	3488.0	2562.9	2373.7	2340.0	2316.7	2345.2	2363.3	2384.1	2373.7
32.5°	6050.9	5058.4	3117.4	2397.0	2301.2	2267.5	2298.6	2280.4	2311.5	2329.7	2301.2
35°	6245.2	4957.3	2853.1	2308.9	2218.2	2231.2	2236.4	2228.6	2241.5	2226.0	2259.7
37.5°	6437.0	4921.0	2609.5	2233.8	2179.4	2179.4	2174.2	2158.6	2184.5	2179.4	2194.9
40°	6680.6	4944.4	2402.2	2153.4	2143.1	2137.9	2117.2	2114.6	2104.2	2106.8	2112.0
42.5°	6893.1	4996.2	2283.0	2101.6	2109.4	2119.8	2080.9	2049.8	2062.7	2036.8	2036.8
45°	7118.5	5042.8	2176.8	2065.3	2057.6	2055.0	2023.9	2005.7	1995.4	1998.0	2021.3
47.5°	7473.6	5110.2	2096.4	2016.1	2021.3	1982.4	1974.6	1951.3	1961.7	1977.2	1979.8
50°	7724.9	5252.7	2034.2	1959.1	1977.2	1951.3	1904.7	1894.3	1894.3	1920.2	1915.0
52.5°	7901.1	5452.3	1974.6	1896.9	1904.7	1883.9	1868.4	1845.1	1829.5	1865.8	1883.9
55°	8440.1	5784.0	1959.1	1845.1	1842.5	1821.7	1793.2	1769.9	1762.1	1767.3	1803.6
57.5°	8388.3	5680.3	1909.9	1754.4	1749.2	1720.7	1692.2	1684.4	1681.8	1687.0	1697.4
60°	6810.2	4195.5	1705.1	1650.7	1642.9	1637.8	1609.3	1578.2	1562.6	1578.2	1565.2
62.5°	4506.4	2809.1	1503.0	1526.3	1531.5	1518.6	1471.9	1440.8	1446.0	1464.1	1435.6
65°	2213.0	1650.7	1363.1	1425.3	1430.4	1394.2	1350.1	1313.8	1295.7	1311.2	1298.3
67.5°	1264.6	1262.0	1249.0	1313.8	1311.2	1275.0	1205.0	1173.9	1142.8	1148.0	1140.2
70°	1072.8	1093.6	1119.5	1158.3	1155.8	1114.3	1031.4	1008.0	964.0	958.8	945.9
72.5°	844.8	881.1	938.1	966.6	943.3	891.4	837.0	798.1	759.3	736.0	743.7
75°	627.1	678.9	710.0	728.2	691.9	663.4	619.3	572.7	526.1	505.3	497.5
77.5°	456.1	471.6	500.1	513.1	489.8	461.3	435.4	388.7	344.7	316.1	308.4
80°	318.7	329.1	349.8	349.8	349.8	336.9	303.2	256.5	228.0	202.1	196.9
82.5°	222.9	233.2	254.0	243.6	241.0	225.5	204.7	168.4	137.3	119.2	114.0
85°	77.7	85.5	103.7	124.4	132.2	129.6	116.6	93.3	72.6	59.6	54.4
87.5°	18.1	18.1	20.7	18.1	18.1	20.7	18.1	18.1	18.1	13.0	10.4
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)