

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P632085

Luminaire Tested: GWS-SA2C-722-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632085  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2C-722-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

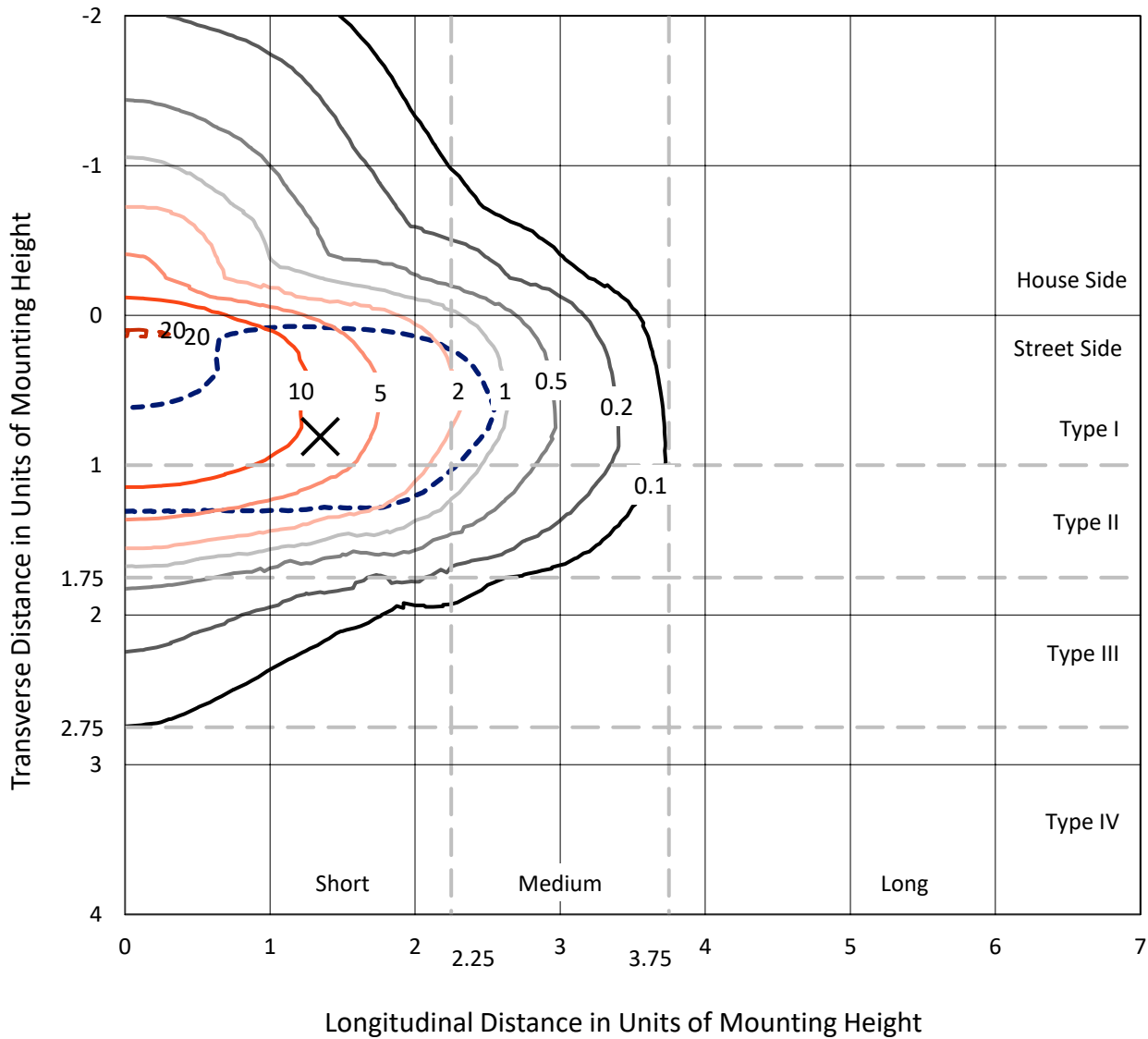
Lumens per Lamp: N/A  
Luminaire Lumens: 6942.3 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

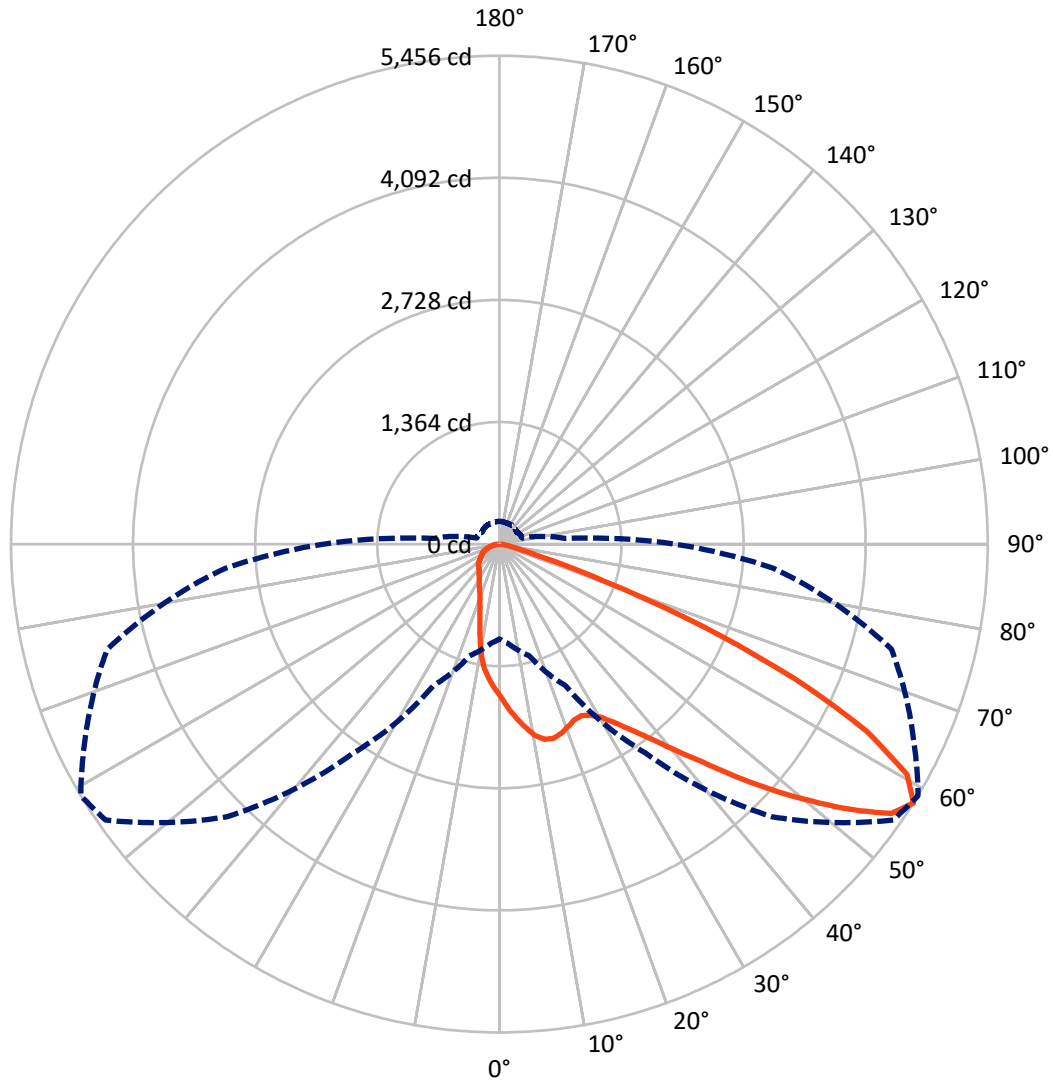
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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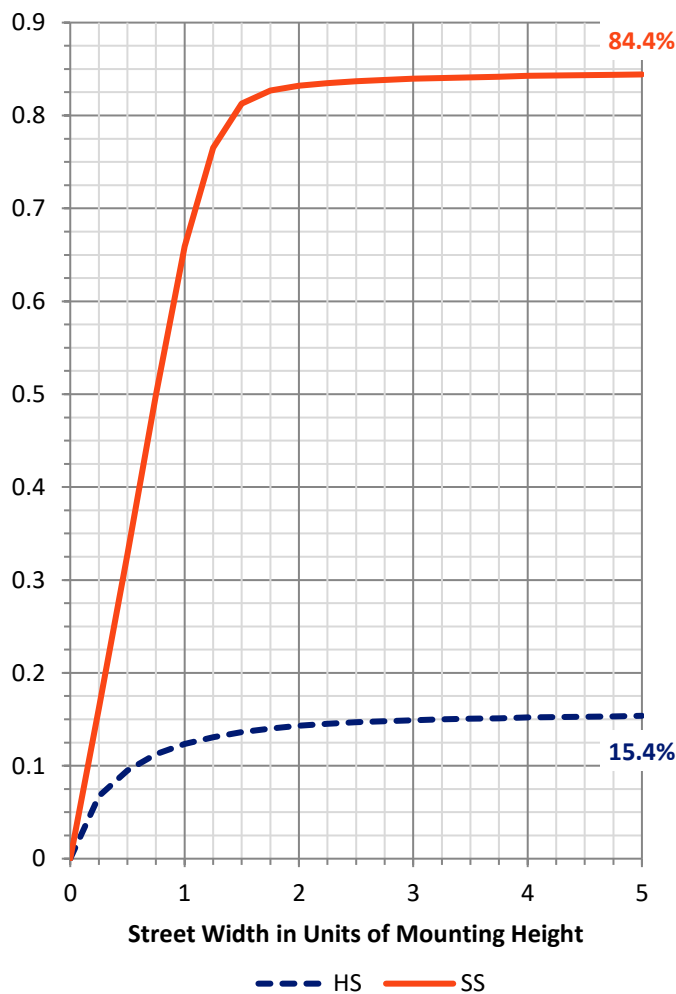
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1077.4	0.0	1077.4
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	5864.9	0.0	5864.9
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	6942.3	0.0	6942.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.2	2.3
10°-20°	401.0	5.8
20°-30°	650.0	9.4
30°-40°	1045.6	15.1
40°-50°	1623.7	23.4
50°-60°	1748.9	25.2
60°-70°	1015.0	14.6
70°-80°	265.0	3.8
80°-90°	34.9	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°	6942.3	100.0
0°-180°	6942.3	100.0

**Coefficient of Utilization**



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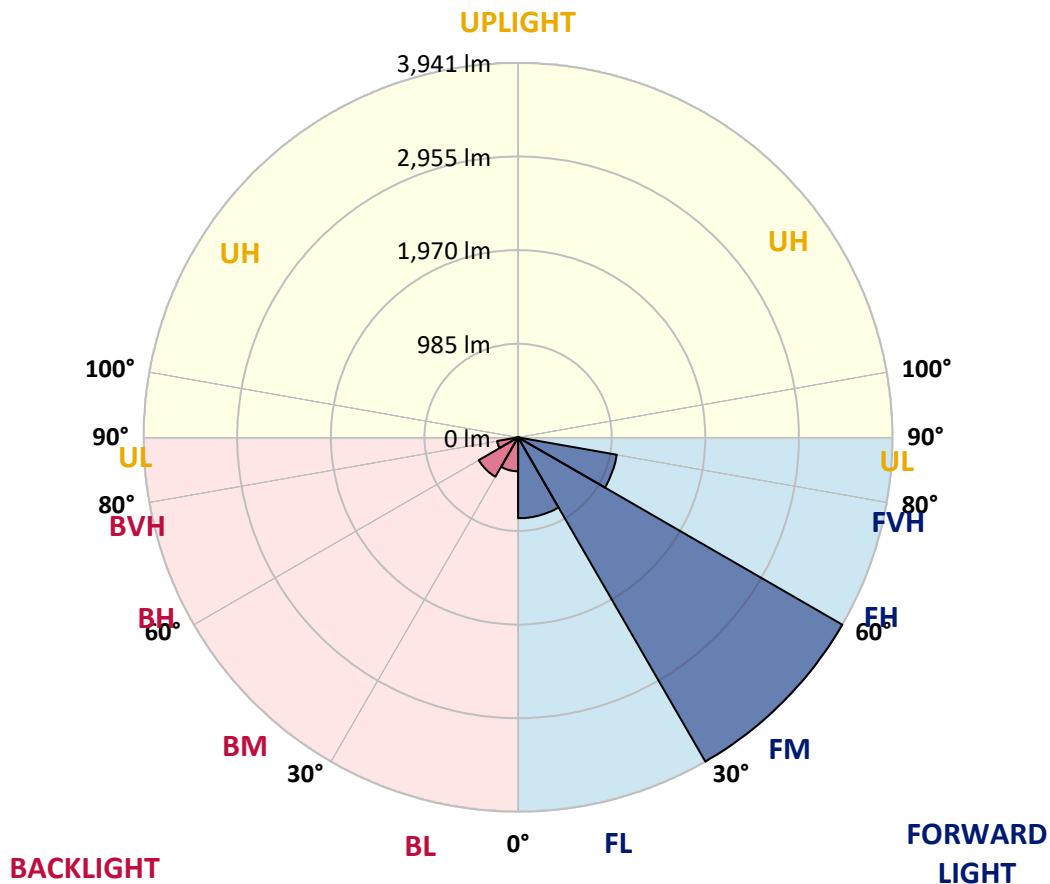
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	851.8	12.3			
FM (30°-60°)	3940.5	56.8			
FH (60°-80°)	1055.9	15.2			G1/1800
FVH (80°-90°)	16.7	0.2			G1/100
BL (0°-30°)	357.4	5.1	B1/500		
BM (30°-60°)	477.7	6.9	B1/1000		
BH (60°-80°)	224.1	3.2	B1/500		G1/500
BVH (80°-90°)	18.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1704.2	1704.2	1704.2	1704.2	1704.2	1704.2	1704.2	1704.2	1704.2	1704.2	1704.2
2.5°	1932.9	1916.8	1928.0	1908.0	1899.7	1877.7	1849.3	1830.3	1801.0	1762.8	1729.6
5°	2125.0	2113.8	2116.2	2094.7	2075.6	2039.0	1980.8	1948.6	1898.7	1822.0	1750.6
7.5°	2119.1	2132.3	2139.7	2158.2	2163.6	2160.2	2107.9	2062.9	2008.2	1892.8	1785.3
10°	1899.7	1924.6	1947.1	2010.6	2087.8	2185.6	2197.8	2170.9	2115.7	1983.3	1826.9
12.5°	1660.7	1679.8	1699.8	1776.0	1894.3	2089.8	2222.2	2238.9	2216.9	2072.7	1873.8
15°	1543.4	1552.2	1571.3	1621.6	1715.9	1932.9	2179.7	2252.5	2292.1	2167.5	1926.6
17.5°	1538.5	1542.4	1551.7	1578.6	1644.1	1811.7	2103.0	2225.2	2351.3	2267.7	1988.1
20°	1639.7	1629.4	1623.6	1623.1	1655.3	1771.2	2028.7	2181.2	2379.1	2370.3	2054.1
22.5°	1779.9	1783.4	1770.7	1739.4	1735.5	1800.0	1991.6	2136.7	2387.4	2461.2	2115.2
25°	1978.9	1996.0	1958.3	1898.7	1869.4	1883.6	2014.5	2123.0	2386.5	2537.0	2153.3
27.5°	2211.0	2224.2	2186.1	2107.9	2047.3	2013.1	2083.0	2163.6	2394.8	2602.5	2176.3
30°	2475.4	2479.8	2427.5	2345.4	2256.9	2183.6	2196.8	2247.2	2437.3	2688.5	2203.2
32.5°	2798.5	2817.0	2737.9	2607.9	2484.2	2390.4	2349.8	2382.1	2529.2	2790.2	2244.7
35°	3208.5	3214.9	3114.2	2928.0	2753.0	2623.0	2538.0	2555.1	2668.9	2932.4	2307.3
37.5°	3595.1	3601.4	3494.4	3321.4	3071.2	2893.3	2770.1	2762.3	2847.8	3133.2	2409.4
40°	3840.4	3858.5	3810.6	3702.1	3463.1	3223.2	3056.0	3029.1	3082.4	3379.1	2551.7
42.5°	3972.4	3980.2	3979.2	3993.4	3851.2	3612.7	3378.6	3324.8	3360.5	3644.4	2695.3
45°	3973.4	3992.9	4045.2	4181.6	4187.9	4039.3	3786.2	3702.1	3669.4	3911.8	2845.4
47.5°	3795.5	3816.5	3960.2	4228.5	4426.4	4460.1	4274.4	4105.8	3968.0	4142.0	2968.5
50°	3256.9	3309.7	3583.4	4057.9	4473.3	4797.4	4740.2	4511.5	4233.4	4319.9	3045.8
52.5°	2789.2	2787.2	2955.8	3576.0	4277.4	4945.9	5190.8	4928.8	4495.8	4432.8	3065.3
55°	2042.4	2053.6	2226.2	2734.9	3754.4	4802.2	5438.6	5313.0	4796.9	4492.9	3057.5
57.5°	1059.1	1114.8	1291.7	1745.2	2852.7	4307.7	5372.6	5456.2	5102.8	4535.4	3067.7
60°	535.2	524.4	587.9	833.3	1652.9	3364.4	4966.0	5232.3	5158.0	4568.6	3074.1
62.5°	357.3	354.3	336.7	386.1	675.4	1992.5	4233.4	4606.8	4774.4	4490.4	2993.0
65°	309.4	303.5	271.2	269.3	327.9	826.4	3102.9	3621.5	3946.0	4143.0	2798.9
67.5°	278.6	269.8	237.0	220.9	235.6	363.1	1748.7	2429.0	2913.8	3503.7	2373.8
70°	248.8	244.4	211.6	188.2	186.7	221.4	644.1	1253.6	1782.9	2390.4	1735.5
72.5°	222.9	215.0	187.2	164.7	153.5	156.9	279.6	482.9	922.7	1491.1	1038.1
75°	193.0	187.2	162.7	140.3	126.6	114.9	170.6	223.3	420.8	708.7	490.2
77.5°	149.1	145.2	128.5	111.4	103.6	85.5	103.6	140.8	194.5	298.6	255.1
80°	86.5	88.9	95.8	87.0	76.2	61.1	67.4	81.1	116.8	161.8	144.7
82.5°	43.5	46.4	62.1	50.3	45.5	35.7	40.1	47.9	61.1	89.4	56.7
85°	3.4	3.4	11.2	12.7	15.6	12.7	16.1	19.5	27.9	35.7	19.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.4	4.4	8.3	5.4
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°	1704.2	1704.2	1704.2	1704.2	1704.2	1704.2	1704.2	1704.2	1704.2	1704.2	1704.2
2.5°	1707.1	1682.2	1652.4	1628.0	1590.3	1570.3	1544.9	1513.6	1500.9	1495.0	1491.6
5°	1710.5	1666.6	1603.0	1544.4	1479.4	1428.1	1370.9	1311.3	1277.0	1268.7	1262.9
7.5°	1723.3	1661.7	1560.5	1463.7	1343.0	1231.1	1122.1	1014.1	958.9	937.9	935.9
10°	1740.9	1659.7	1517.5	1356.7	1152.9	976.0	848.4	763.9	728.2	716.5	712.6
12.5°	1762.8	1658.3	1460.8	1208.1	933.5	766.3	693.5	679.8	684.7	683.7	683.7
15°	1790.7	1660.2	1392.4	1040.0	755.1	665.2	666.6	682.8	697.9	700.3	700.3
17.5°	1821.0	1658.3	1293.2	871.4	648.1	641.2	663.7	686.2	699.9	701.8	701.8
20°	1853.7	1649.0	1168.1	712.6	601.1	626.1	650.5	668.1	676.4	678.4	678.4
22.5°	1873.3	1622.6	1032.2	603.1	571.3	602.1	618.2	636.3	637.3	621.7	621.2
25°	1870.4	1573.2	877.3	532.7	539.6	566.4	587.0	574.3	558.6	549.8	548.4
27.5°	1851.8	1498.9	719.4	479.4	501.9	532.2	525.9	515.1	511.2	501.4	500.5
30°	1828.3	1407.5	577.7	437.9	462.8	490.7	480.9	479.9	476.0	465.3	465.3
32.5°	1805.9	1313.2	470.6	407.1	437.9	439.9	453.5	454.5	452.6	434.0	432.0
35°	1799.5	1218.9	398.3	382.7	413.5	412.5	432.0	431.5	397.8	371.9	371.4
37.5°	1818.6	1123.1	355.3	362.6	379.7	392.4	408.1	379.7	368.5	352.9	351.9
40°	1859.1	1034.6	333.3	350.9	358.2	376.8	352.4	354.3	351.4	339.7	338.2
42.5°	1912.9	959.4	321.1	347.0	346.0	350.9	324.0	331.8	336.2	327.4	326.0
45°	1964.7	893.9	314.7	332.3	337.2	308.9	303.5	310.8	317.7	314.3	312.8
47.5°	2002.8	837.2	311.3	312.3	326.0	294.7	285.9	289.3	297.6	299.1	298.6
50°	2014.5	788.8	307.4	295.7	292.7	280.5	273.7	272.7	282.5	289.3	290.3
52.5°	1992.1	745.8	297.1	281.0	266.8	268.8	266.4	261.5	271.2	280.5	281.5
55°	1958.8	721.4	281.0	266.8	250.2	258.0	259.0	254.6	261.0	267.3	267.3
57.5°	1961.3	735.5	265.4	253.7	235.6	245.8	251.2	249.3	249.3	254.1	254.6
60°	1977.4	756.1	255.1	237.0	220.9	231.7	243.9	241.9	237.5	243.9	243.9
62.5°	1931.0	728.7	248.3	220.9	205.3	218.0	232.6	231.7	226.8	237.0	238.0
65°	1794.1	655.4	240.5	200.9	189.6	204.3	217.0	220.4	216.0	229.7	232.1
67.5°	1503.8	551.3	225.3	181.8	174.0	187.7	199.9	204.8	201.4	217.5	219.4
70°	1121.1	446.2	201.4	160.8	154.9	167.1	178.4	180.3	180.8	199.9	201.8
72.5°	715.0	347.0	169.6	137.3	132.9	142.2	150.5	158.3	161.8	179.9	179.4
75°	398.8	258.0	136.4	116.3	108.5	115.8	125.6	134.9	144.7	171.1	174.0
77.5°	229.7	181.3	108.0	93.3	84.1	91.9	100.2	113.4	142.7	165.7	162.7
80°	129.5	117.8	81.6	68.4	62.6	68.4	74.8	99.7	112.4	122.2	123.6
82.5°	60.6	66.0	55.7	42.0	42.0	45.9	51.8	77.2	85.0	69.4	60.6
85°	22.0	29.8	27.4	21.5	19.1	18.6	32.3	44.0	27.4	24.4	21.0
87.5°	5.9	8.3	7.8	5.4	2.9	2.4	0.0	0.0	0.0	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)