

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: P631478

Luminaire Tested: GWS-SA1F-827-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631478  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1F-827-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (16) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

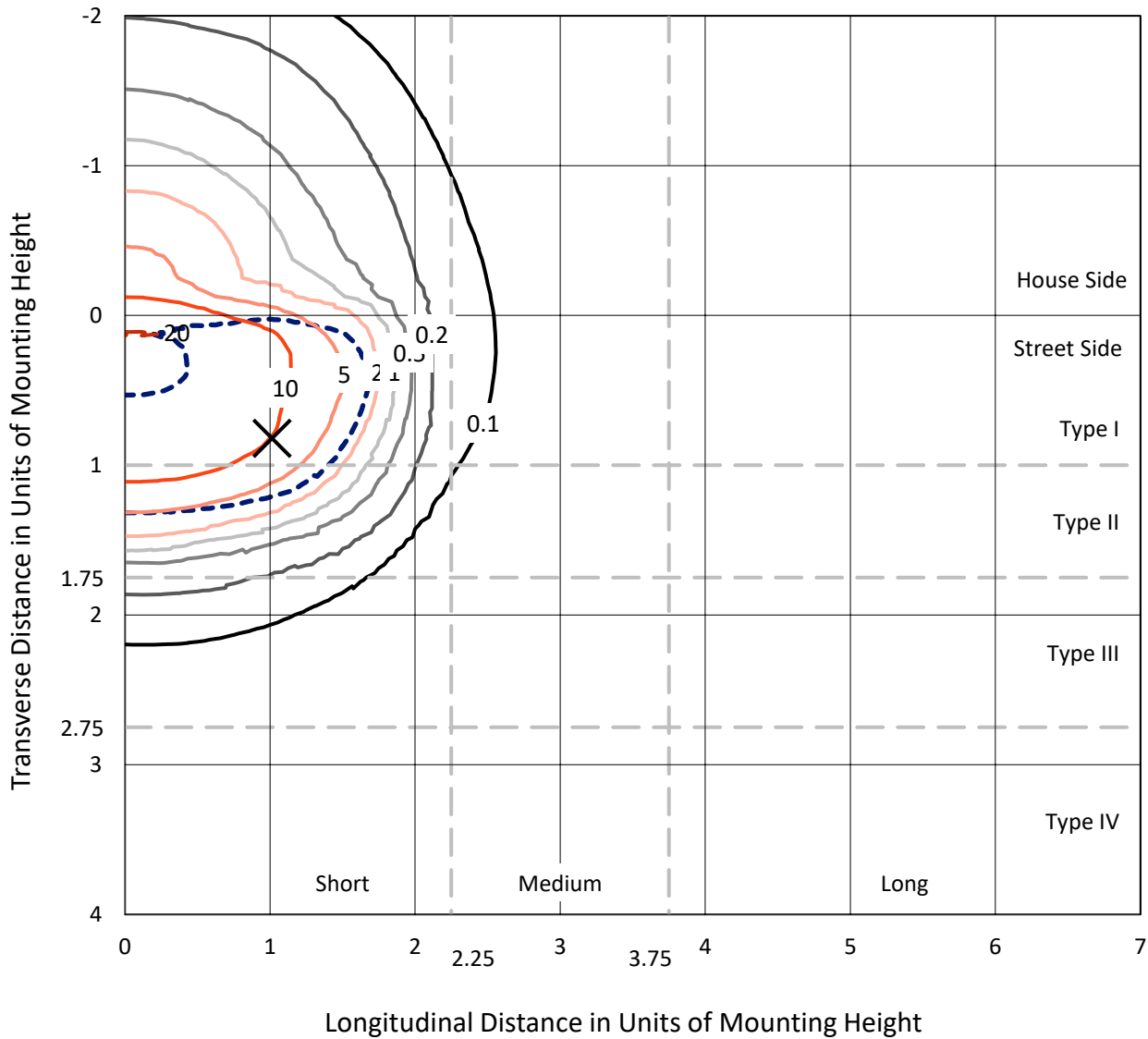
Lumens per Lamp: N/A  
Luminaire Lumens: 5618.6 lumens  
Efficiency: N/A  
Efficacy: 83.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

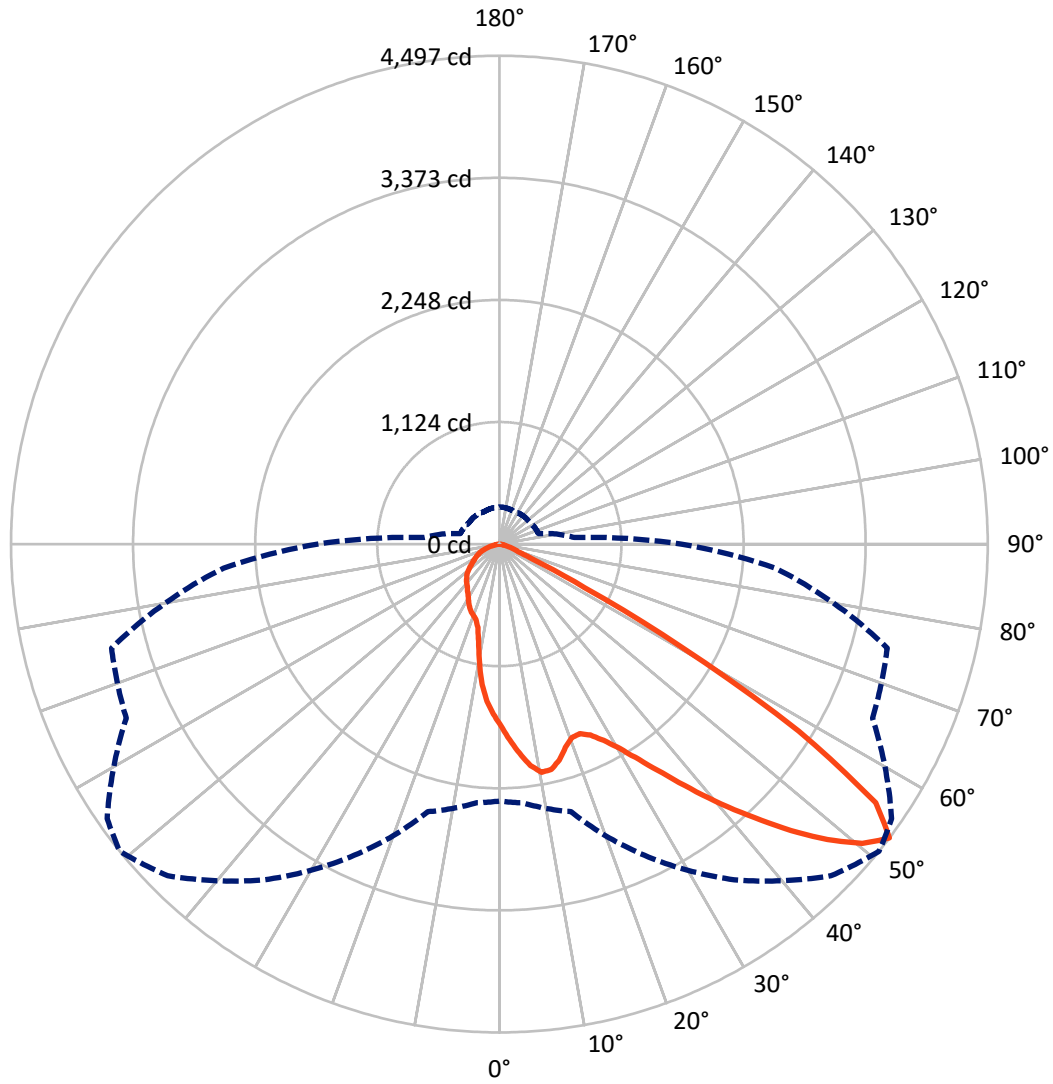
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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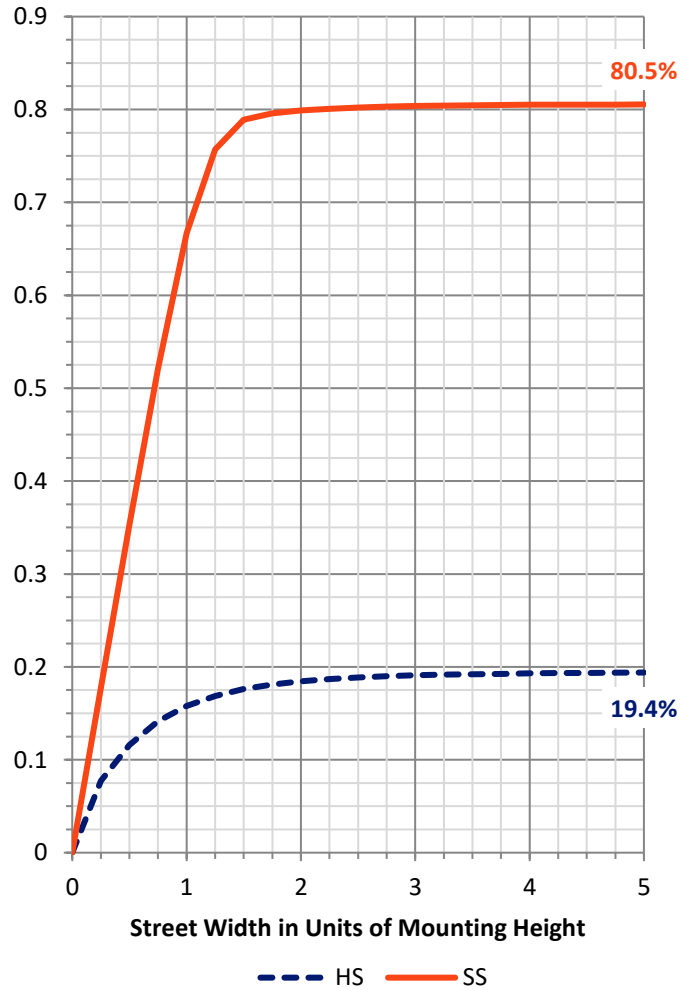
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1094.7	0.0	1094.7
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	4523.9	0.0	4523.9
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	5618.6	0.0	5618.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.1	2.8
10°-20°	405.6	7.2
20°-30°	659.5	11.7
30°-40°	1045.2	18.6
40°-50°	1576.4	28.1
50°-60°	1363.7	24.3
60°-70°	309.2	5.5
70°-80°	91.2	1.6
80°-90°	11.7	0.2
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°	5618.6	100.0
0°-180°	5618.6	100.0

**Coefficient of Utilization**



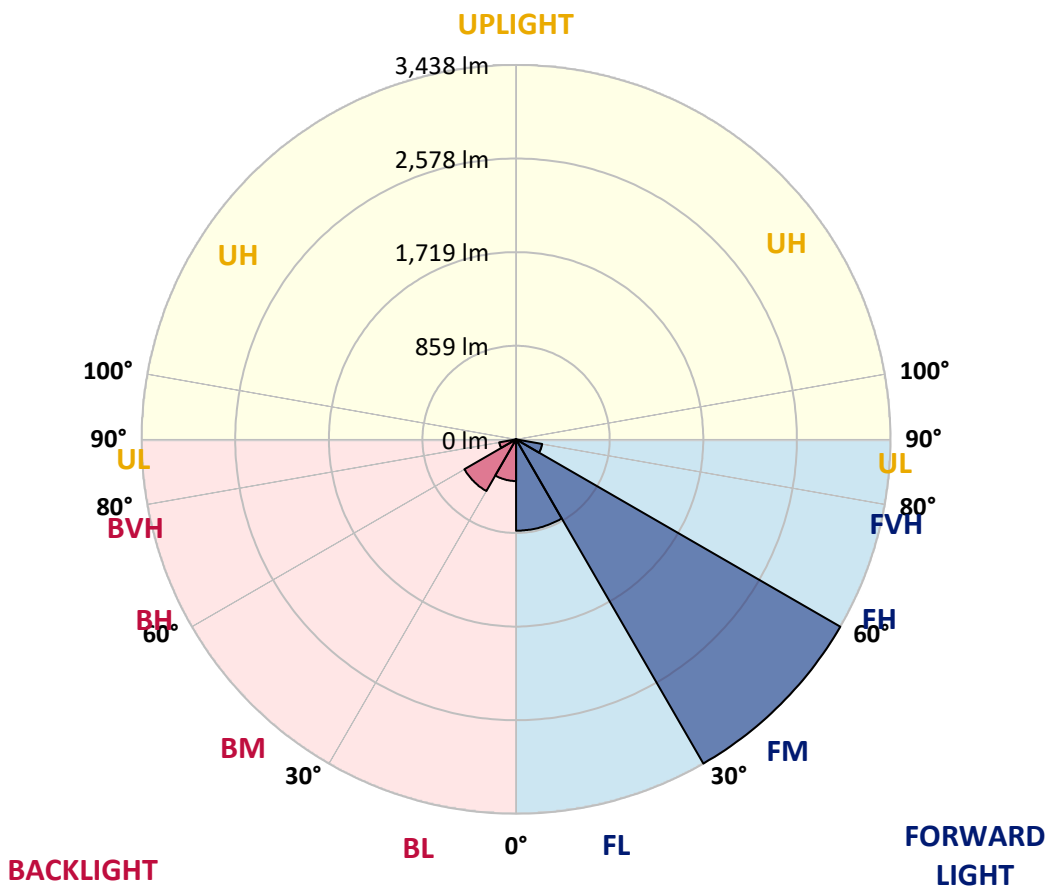
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	838.6	14.9			
FM (30°-60°)	3437.5	61.2			
FH (60°-80°)	243.3	4.3			G0/660
FVH (80°-90°)	4.4	0.1			G0/10
BL (0°-30°)	382.7	6.8	B1/500		
BM (30°-60°)	547.7	9.7	B1/1000		
BH (60°-80°)	157.0	2.8	B1/500		G1/500
BVH (80°-90°)	7.3	0.1			G0/10
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°	51°	55°	65°	75°	85°
0°	1672.9	1672.9	1672.9	1672.9	1672.9	1672.9	1672.9	1672.9	1672.9	1672.9	1672.9
2.5°	1864.3	1875.0	1858.5	1852.3	1842.1	1824.3	1803.9	1798.1	1754.2	1725.3	1692.9
5°	2051.7	2057.4	2044.1	2030.8	2005.5	1974.0	1934.4	1926.0	1846.1	1779.9	1711.1
7.5°	2093.4	2091.2	2102.7	2110.3	2107.2	2094.7	2059.6	2043.2	1947.8	1843.0	1741.3
10°	1928.2	1915.8	1958.4	2009.0	2069.9	2140.0	2136.0	2134.7	2051.7	1927.8	1779.9
12.5°	1709.3	1703.1	1737.8	1801.2	1916.2	2071.6	2129.8	2175.1	2145.3	2008.6	1823.0
15°	1584.1	1581.9	1605.5	1651.2	1742.6	1938.9	2063.2	2152.9	2225.7	2095.2	1868.7
17.5°	1561.5	1562.8	1570.8	1597.0	1662.7	1824.3	1968.2	2093.4	2288.3	2190.2	1926.0
20°	1627.7	1636.5	1622.8	1626.8	1662.3	1783.0	1903.4	2033.5	2328.3	2285.6	1987.7
22.5°	1774.6	1771.5	1741.3	1723.6	1724.0	1808.4	1896.3	2005.5	2354.5	2378.4	2043.7
25°	1941.1	1937.6	1901.6	1862.1	1837.2	1877.2	1947.3	2035.2	2378.0	2463.2	2088.5
27.5°	2137.8	2126.7	2086.7	2036.1	1981.1	1998.4	2045.9	2115.6	2414.4	2546.7	2118.3
30°	2328.3	2341.1	2283.9	2223.9	2165.8	2155.1	2182.6	2245.7	2488.5	2644.4	2153.8
32.5°	2580.9	2576.4	2513.0	2434.8	2351.8	2343.8	2365.6	2423.3	2621.7	2779.3	2207.9
35°	2886.8	2887.7	2797.6	2691.9	2573.8	2552.5	2588.9	2644.8	2820.2	2962.3	2293.6
37.5°	3204.7	3203.4	3124.8	3004.9	2843.7	2813.5	2855.3	2897.0	3068.4	3211.3	2426.8
40°	3427.6	3436.4	3399.6	3336.6	3183.8	3110.1	3147.0	3175.8	3338.3	3504.4	2602.2
42.5°	3554.1	3567.4	3575.4	3613.2	3532.8	3454.2	3440.9	3456.0	3579.4	3776.5	2766.9
45°	3581.2	3598.9	3657.1	3797.0	3828.0	3805.8	3762.3	3725.9	3759.2	3969.7	2874.8
47.5°	3461.8	3492.8	3617.2	3861.8	4043.4	4113.1	4064.7	4009.2	3863.1	4019.4	2863.7
50°	2988.5	3024.9	3305.0	3729.5	4074.0	4328.0	4332.4	4250.3	3850.7	3876.0	2724.3
52.5°	2366.0	2390.9	2551.1	3161.6	3773.4	4319.1	4496.7	4408.8	3790.7	3696.6	2549.8
55°	1414.1	1454.1	1603.7	2085.8	2939.6	3828.0	4206.3	4248.9	3761.4	3546.1	2430.8
57.5°	477.3	496.8	639.8	921.3	1732.4	2802.9	3250.0	3423.1	3414.7	3316.1	2198.6
60°	227.3	231.8	260.6	349.4	693.5	1464.7	1923.8	2123.6	2305.6	2323.8	1367.9
62.5°	173.2	175.8	190.5	209.6	278.8	617.1	881.8	1034.5	1105.1	948.4	498.2
65°	144.7	147.0	158.1	170.0	189.6	267.3	338.3	390.3	351.6	273.9	237.5
67.5°	120.8	122.5	131.0	143.9	157.2	178.9	187.8	193.1	202.5	227.3	218.4
70°	94.6	96.3	105.2	116.3	129.2	134.5	143.0	148.3	166.9	198.9	198.0
72.5°	72.8	75.0	79.9	87.0	97.7	103.0	112.3	118.5	129.2	155.0	165.6
75°	53.3	54.6	59.1	61.3	62.6	61.3	70.6	77.7	91.9	101.7	104.3
77.5°	21.8	24.4	23.5	23.5	28.0	33.7	38.6	43.1	52.8	58.6	59.1
80°	8.9	9.8	11.5	12.9	15.5	20.0	23.1	24.9	29.3	32.9	35.5
82.5°	5.3	5.8	6.7	7.1	8.9	11.5	13.3	14.7	18.2	21.8	23.1
85°	2.7	2.7	3.1	3.6	4.4	5.3	6.2	7.1	9.3	11.5	12.9
87.5°	0.4	0.4	0.4	0.9	1.3	1.8	2.2	2.7	3.1	3.6	4.4
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°	1672.9	1672.9	1672.9	1672.9	1672.9	1672.9	1672.9	1672.9	1672.9	1672.9	1672.9
2.5°	1673.8	1649.9	1621.9	1599.7	1573.9	1554.8	1527.8	1510.9	1494.9	1481.6	1471.8
5°	1675.6	1635.2	1577.0	1525.5	1472.3	1421.6	1369.7	1327.5	1289.8	1258.3	1255.6
7.5°	1685.8	1627.7	1536.6	1446.5	1342.6	1242.3	1141.9	1060.2	998.1	965.7	959.0
10°	1703.1	1626.8	1495.3	1351.5	1174.3	1012.7	893.7	831.6	795.6	782.7	778.3
12.5°	1721.3	1624.5	1442.5	1217.4	971.4	829.8	764.5	757.0	763.7	764.5	764.1
15°	1743.5	1623.2	1375.9	1060.2	823.1	745.0	749.4	765.4	781.0	784.5	784.5
17.5°	1770.6	1620.1	1285.3	906.6	730.4	728.6	752.1	773.4	788.1	790.7	790.7
20°	1799.0	1612.1	1173.9	781.4	692.6	718.4	743.7	760.1	770.3	773.9	774.3
22.5°	1818.6	1590.8	1045.6	688.6	669.1	698.8	717.0	733.9	733.9	725.0	722.4
25°	1822.6	1545.1	906.6	625.1	641.1	668.6	687.3	677.5	659.3	652.2	651.8
27.5°	1807.9	1478.5	769.4	579.8	607.4	634.9	631.8	617.6	609.6	602.5	605.2
30°	1790.1	1398.6	650.4	542.6	568.3	595.4	584.7	579.8	574.1	566.1	567.9
32.5°	1778.2	1309.3	559.0	513.7	542.1	546.5	554.1	553.6	548.3	533.2	532.3
35°	1781.7	1219.2	497.7	490.2	520.4	518.6	532.8	530.1	493.3	472.4	471.1
37.5°	1810.1	1132.6	461.7	471.5	485.7	496.8	509.3	477.3	464.4	451.1	452.0
40°	1864.3	1052.2	442.2	461.3	464.9	481.3	452.4	452.0	446.2	434.2	433.8
42.5°	1925.6	984.3	428.9	456.4	451.5	454.6	424.0	427.6	427.1	419.6	417.3
45°	1962.9	921.7	418.2	438.2	439.5	408.5	399.1	403.1	405.4	401.4	400.9
47.5°	1924.2	849.8	407.1	410.2	421.8	387.6	376.1	376.5	380.5	380.9	379.2
50°	1815.9	769.4	393.8	386.3	378.7	365.8	355.2	353.0	357.0	361.0	362.3
52.5°	1676.0	692.6	371.6	360.1	342.3	342.3	337.4	330.3	335.7	341.0	342.8
55°	1573.5	635.8	340.1	327.2	307.7	314.3	313.5	307.2	314.3	318.3	319.7
57.5°	1363.5	511.0	299.2	295.3	278.8	286.8	288.6	280.6	277.0	277.9	279.3
60°	809.4	329.9	269.9	269.5	254.8	264.2	269.5	261.5	250.9	252.2	254.0
62.5°	363.2	252.2	233.1	231.3	230.9	242.9	248.6	241.1	226.0	227.3	229.1
65°	228.7	218.0	202.5	202.5	209.6	219.8	224.2	218.0	200.7	198.5	200.2
67.5°	212.2	202.9	186.9	183.8	187.4	195.8	196.2	184.3	174.0	172.3	172.3
70°	190.5	183.4	167.8	161.6	160.3	159.8	158.5	155.4	148.7	147.0	147.8
72.5°	157.6	152.7	143.0	136.3	132.8	132.3	127.0	124.3	118.5	117.7	117.2
75°	104.3	105.7	105.7	104.8	101.7	100.3	94.6	91.9	85.2	82.6	82.1
77.5°	61.7	63.0	64.8	65.3	64.8	64.8	59.5	56.4	49.7	46.2	45.3
80°	37.7	38.6	39.5	40.8	39.1	37.7	32.9	29.7	26.6	24.4	24.0
82.5°	24.4	25.3	25.8	26.6	25.8	24.0	20.0	18.2	16.0	14.2	13.8
85°	13.8	14.2	15.1	15.1	13.8	12.4	10.2	8.9	7.5	6.7	6.7
87.5°	4.9	4.9	4.9	5.3	4.4	4.0	2.7	1.8	1.3	1.3	1.3
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)