

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: P634048

Luminaire Tested: GWS-SA2F-830-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P634048  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2F-830-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13100.9 lumens  
Efficiency: N/A  
Efficacy: 105.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 124.5  
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

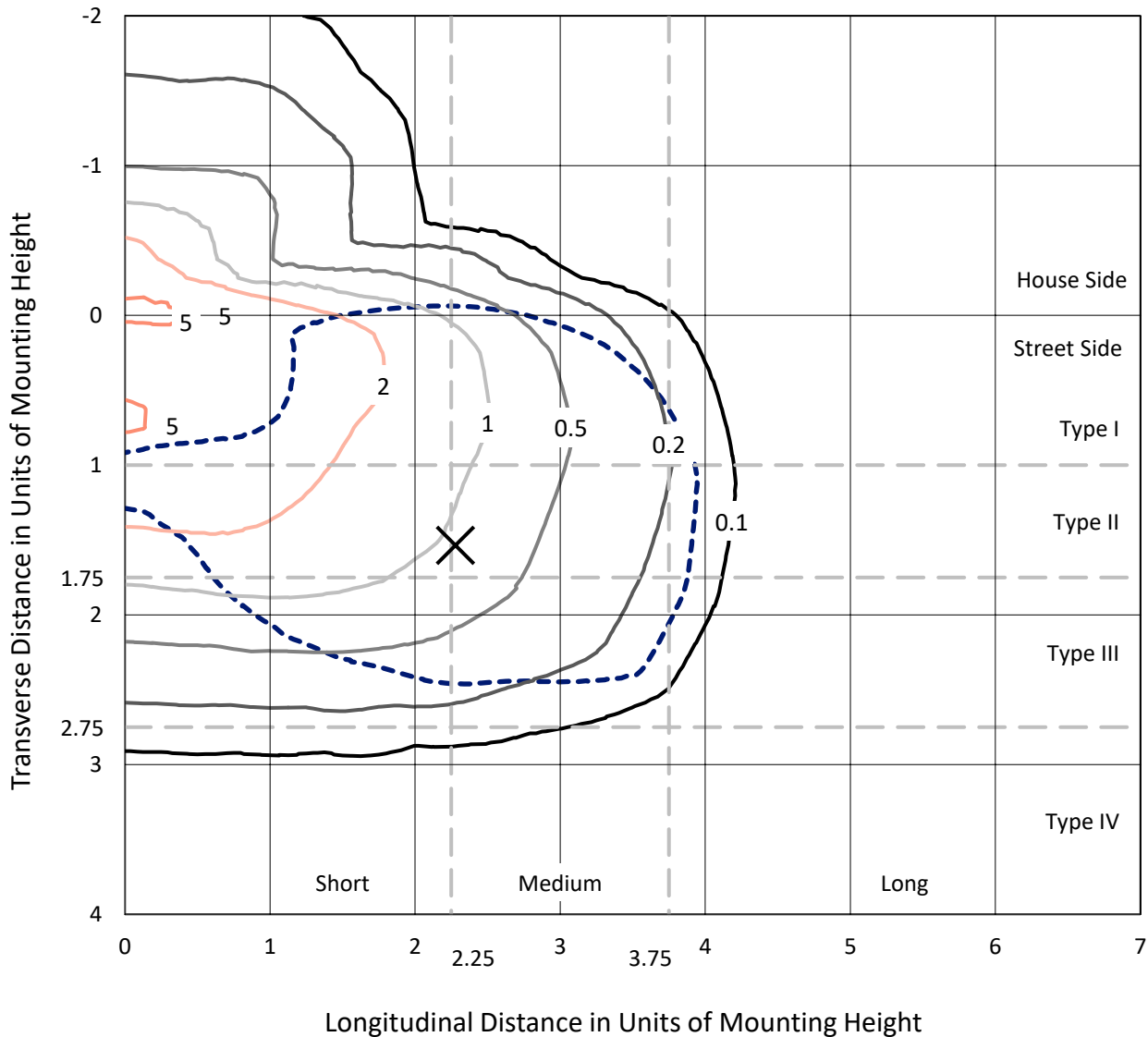


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### Iso-Footcandle Lines of Horizontal Illumination

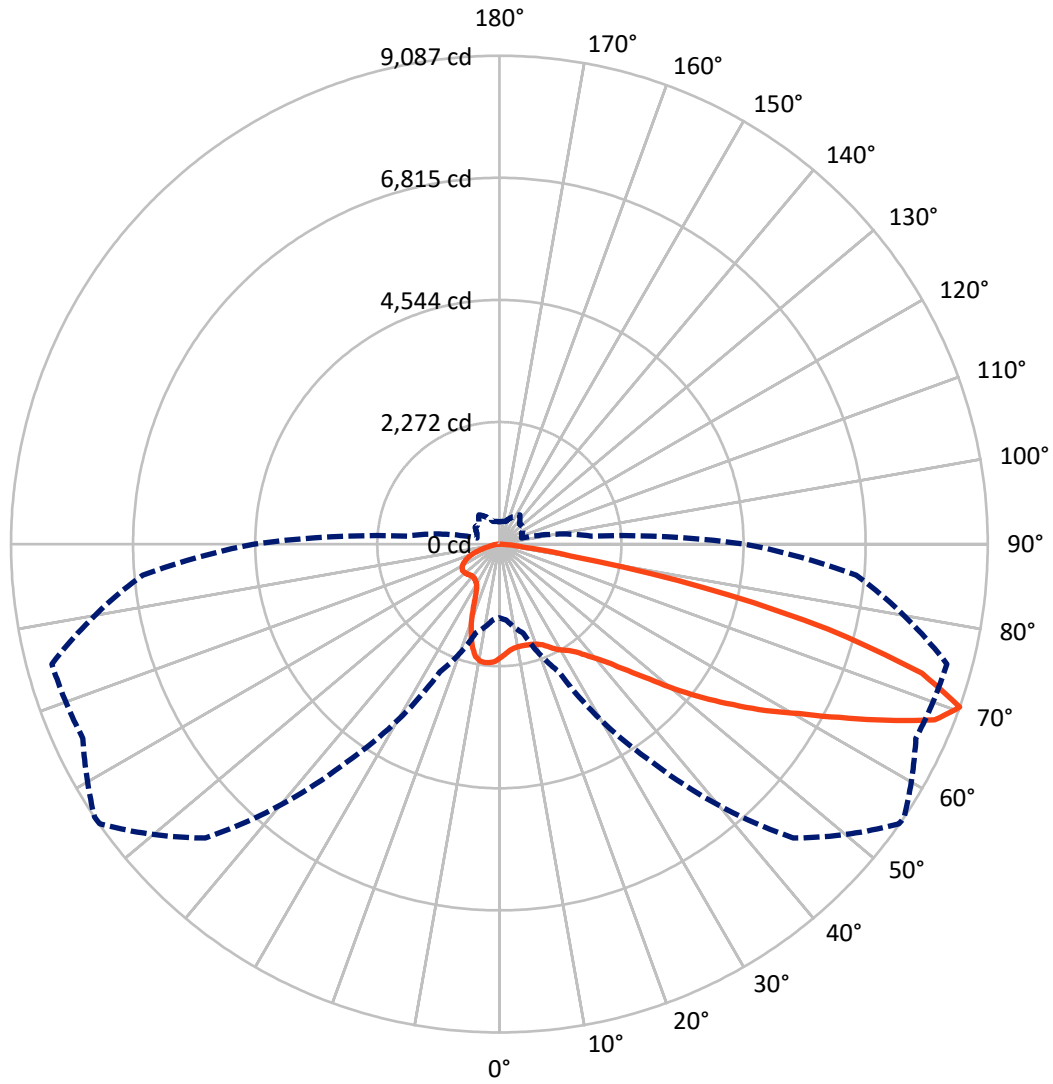
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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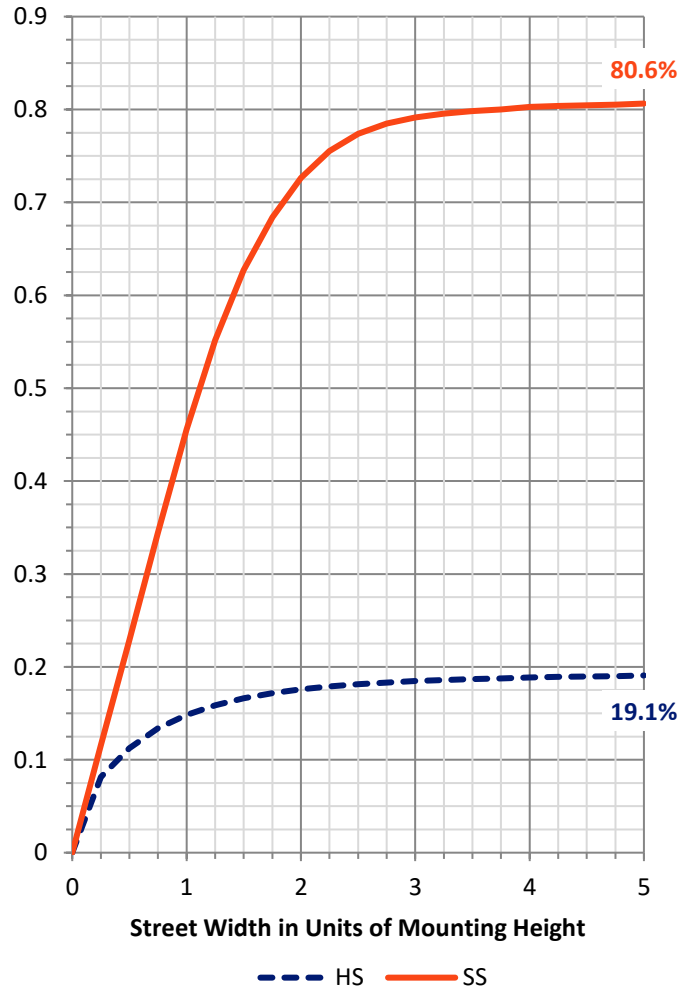
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2518.7	0.0	2518.7
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	10582.2	0.0	10582.2
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	13100.9	0.0	13100.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.7	1.5
10°-20°	530.2	4.0
20°-30°	876.6	6.7
30°-40°	1310.7	10.0
40°-50°	1950.4	14.9
50°-60°	2772.9	21.2
60°-70°	3434.4	26.2
70°-80°	1896.4	14.5
80°-90°	133.6	1.0
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°	13100.9	100.0
0°-180°	13100.9	100.0

**Coefficient of Utilization**



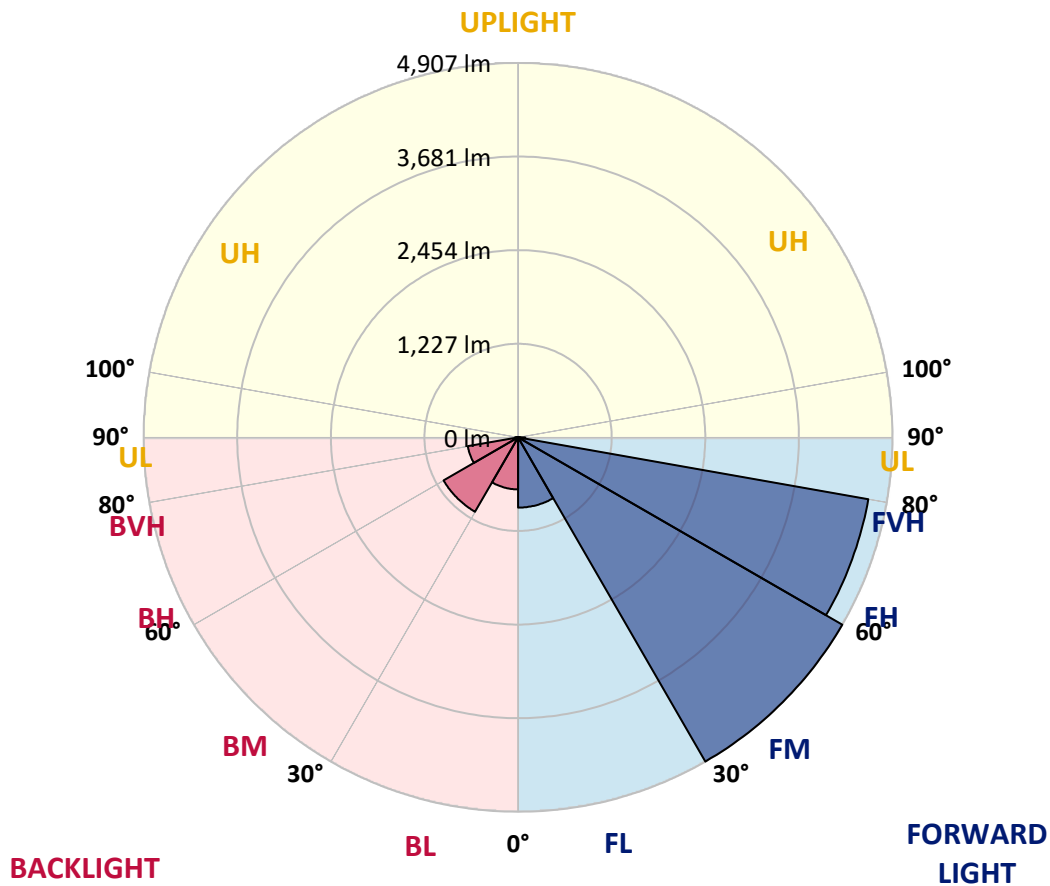
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	920.7	7.0			
FM (30°-60°)	4907.4	37.5			
FH (60°-80°)	4661.3	35.6			G2/5000
FVH (80°-90°)	92.8	0.7			G1/100
BL (0°-30°)	681.8	5.2	B2/1000		
BM (30°-60°)	1126.6	8.6	B2/2500		
BH (60°-80°)	669.4	5.1	B2/1000		G2/1000
BVH (80°-90°)	40.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2114.7	2114.7	2114.7	2114.7	2114.7	2114.7	2114.7	2114.7	2114.7	2114.7	2114.7
2.5°	1978.9	1967.8	1980.7	1987.2	2003.8	2027.8	2049.1	2050.0	2061.1	2087.9	2113.8
5°	1889.3	1883.7	1887.4	1906.8	1924.4	1954.9	1987.2	1990.0	2021.4	2074.0	2125.8
7.5°	1820.0	1812.6	1826.4	1851.4	1873.6	1907.7	1950.2	1953.9	1998.3	2077.7	2157.2
10°	1720.2	1714.7	1740.5	1773.8	1821.8	1878.2	1934.5	1939.2	1997.4	2101.8	2212.6
12.5°	1676.8	1676.8	1687.9	1719.3	1771.9	1846.8	1931.8	1939.2	2012.1	2138.7	2283.8
15°	1744.2	1748.8	1739.6	1737.8	1759.0	1830.1	1935.5	1946.5	2039.9	2176.6	2354.0
17.5°	1880.0	1884.6	1860.6	1822.8	1801.5	1845.8	1949.3	1961.3	2069.4	2218.2	2429.7
20°	2070.3	2075.9	2023.2	1965.0	1892.0	1891.1	1976.1	1987.2	2107.3	2263.4	2510.1
22.5°	2293.0	2296.7	2230.2	2137.8	2026.0	1975.2	2022.3	2033.4	2156.3	2326.2	2596.9
25°	2550.7	2561.8	2481.5	2347.5	2196.0	2090.7	2099.0	2111.9	2244.0	2410.3	2699.5
27.5°	2826.0	2839.9	2747.5	2599.7	2390.9	2218.2	2197.8	2208.9	2337.3	2462.1	2754.0
30°	3107.8	3118.0	3025.6	2856.5	2600.6	2362.3	2281.0	2287.4	2378.0	2487.0	2809.4
32.5°	3421.0	3412.7	3324.0	3129.1	2842.7	2535.0	2358.6	2356.7	2423.3	2536.9	2888.9
35°	3714.8	3726.8	3632.6	3417.3	3108.7	2748.4	2475.0	2467.6	2519.3	2618.2	3000.7
37.5°	4070.5	4066.8	3954.1	3721.3	3375.7	2952.6	2638.5	2625.6	2644.1	2744.8	3156.8
40°	4324.5	4350.4	4277.4	4060.3	3688.0	3203.9	2829.7	2801.1	2805.7	2900.9	3365.6
42.5°	4532.4	4556.4	4563.8	4425.2	4045.5	3514.3	3068.1	3039.5	3042.2	3177.1	3622.4
45°	4692.2	4724.6	4829.0	4788.3	4448.3	3872.8	3390.5	3361.0	3362.8	3512.5	3932.8
47.5°	4757.8	4792.9	5004.5	5101.5	4876.1	4301.4	3791.5	3748.0	3754.5	3919.9	4287.6
50°	4736.6	4783.7	5070.1	5342.6	5234.5	4737.5	4270.9	4240.5	4215.5	4455.7	4672.8
52.5°	4553.6	4605.4	5063.6	5496.0	5527.4	5149.5	4766.1	4748.6	4743.0	5024.8	5103.3
55°	4015.0	4101.9	4841.0	5536.6	5756.5	5537.5	5302.9	5273.3	5302.0	5634.5	5538.5
57.5°	3716.6	3781.3	4404.9	5491.3	5944.0	5907.1	5838.7	5841.5	5873.8	6296.9	6066.0
60°	3546.7	3622.4	4162.9	5367.6	6124.2	6356.1	6399.5	6399.5	6457.7	7011.1	6601.8
62.5°	3321.2	3397.9	3936.5	5129.2	6290.5	6884.5	7104.4	7101.6	7124.7	7776.9	7125.6
65°	2863.9	2935.1	3482.0	4753.2	6371.8	7466.5	7905.4	7897.0	7850.9	8458.7	7472.1
67.5°	2079.6	2147.0	2667.1	4038.1	6078.9	7935.8	8730.4	8734.1	8457.8	8888.3	7490.6
70°	1371.0	1417.2	1714.7	2622.8	4943.5	7733.5	9075.9	9087.0	8551.1	8620.4	6666.5
72.5°	855.5	887.8	1070.7	1564.1	2921.2	6121.4	8189.0	8219.5	7692.9	7575.5	5477.5
75°	568.2	590.3	712.3	911.8	1351.6	3312.9	6224.9	6322.8	6165.8	5938.5	3816.4
77.5°	341.8	360.3	453.6	579.3	598.7	1294.3	3633.5	3886.6	3908.8	3100.4	1598.3
80°	156.1	177.4	250.4	330.7	318.7	450.8	1281.4	1340.5	1581.6	984.8	504.4
82.5°	92.4	101.6	166.3	164.4	135.8	219.0	461.0	473.0	401.9	360.3	215.3
85°	37.0	43.4	70.2	61.9	49.9	71.1	173.7	182.0	174.6	157.1	79.5
87.5°	0.0	0.0	0.0	0.0	0.9	1.8	15.7	16.6	24.0	43.4	24.0
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°	2114.7	2114.7	2114.7	2114.7	2114.7	2114.7	2114.7	2114.7	2114.7	2114.7	2114.7
2.5°	2130.4	2124.8	2152.6	2173.8	2183.1	2192.3	2184.0	2181.2	2181.2	2162.7	2153.5
5°	2153.5	2156.3	2194.1	2211.7	2211.7	2204.3	2182.1	2166.4	2160.9	2136.9	2130.4
7.5°	2196.9	2208.9	2244.0	2243.1	2217.2	2176.6	2121.2	2078.7	2039.9	2023.2	2013.1
10°	2268.0	2283.8	2307.8	2269.0	2196.9	2089.7	1972.4	1880.0	1824.6	1780.3	1780.3
12.5°	2349.3	2364.1	2359.5	2269.9	2121.2	1920.7	1751.6	1645.4	1567.8	1527.1	1527.1
15°	2430.6	2442.7	2392.8	2227.4	1963.2	1696.2	1511.4	1383.9	1316.5	1278.6	1278.6
17.5°	2512.9	2511.9	2406.6	2129.5	1757.2	1447.7	1266.6	1167.7	1144.6	1138.2	1137.3
20°	2592.3	2571.1	2389.1	1965.9	1517.9	1197.3	1082.7	1089.2	1123.4	1138.2	1140.0
22.5°	2681.9	2629.3	2337.3	1757.2	1246.3	1023.6	1031.0	1084.6	1134.5	1156.7	1159.4
25°	2773.4	2679.2	2250.5	1512.3	1019.0	959.9	1017.2	1077.2	1133.6	1162.2	1165.0
27.5°	2810.3	2679.2	2102.7	1228.7	898.0	933.1	995.9	1054.1	1113.2	1146.5	1153.0
30°	2840.8	2656.1	1895.7	972.8	848.1	907.2	961.7	1015.3	1073.5	1114.2	1121.6
32.5°	2883.3	2635.7	1645.4	817.6	825.0	882.3	920.2	965.4	1018.1	1044.9	1042.1
35°	2933.2	2604.3	1343.3	743.7	805.6	861.0	887.8	914.6	890.6	889.7	892.4
37.5°	3004.4	2576.6	1080.0	710.4	792.7	846.2	868.4	811.1	777.9	764.0	758.5
40°	3106.9	2565.5	851.8	691.0	790.8	845.3	829.6	740.9	695.7	647.6	646.7
42.5°	3236.2	2557.2	704.0	681.8	797.3	866.6	776.0	694.7	601.4	580.2	578.3
45°	3402.5	2544.3	630.1	680.0	813.0	883.2	770.5	631.0	567.2	558.0	558.0
47.5°	3603.0	2524.0	596.8	680.0	830.5	875.8	753.9	617.1	551.5	561.7	568.2
50°	3833.0	2498.1	579.3	678.1	848.1	875.8	718.8	614.4	547.8	600.5	621.7
52.5°	4078.8	2468.5	567.2	670.7	860.1	876.7	720.6	623.6	551.5	609.7	627.3
55°	4350.4	2463.9	550.6	655.0	863.8	852.7	725.2	643.9	557.1	552.5	553.4
57.5°	4693.1	2519.3	538.6	631.9	849.0	803.7	734.5	658.7	550.6	551.5	558.0
60°	5051.6	2623.7	548.8	609.7	818.5	757.6	740.9	651.3	519.2	504.4	506.3
62.5°	5356.5	2703.2	557.1	599.6	774.2	716.9	734.5	634.7	501.6	498.0	506.3
65°	5484.0	2637.6	536.8	578.3	709.5	667.0	720.6	613.4	486.9	473.0	473.9
67.5°	5342.6	2329.9	497.0	531.2	636.5	603.3	698.4	585.7	466.5	449.9	446.2
70°	4563.8	1711.9	428.7	456.4	547.8	528.4	664.2	549.7	434.2	422.2	413.9
72.5°	3677.8	1212.1	355.7	363.1	429.6	445.3	605.1	504.4	397.3	363.1	351.1
75°	2560.0	761.3	296.6	289.2	310.4	340.0	472.1	418.5	342.7	306.7	295.6
77.5°	1101.2	390.8	231.9	228.2	206.9	235.6	362.1	349.2	287.3	245.7	239.3
80°	368.6	226.3	167.2	160.7	137.7	165.4	255.0	279.0	225.4	182.0	170.9
82.5°	184.8	131.2	106.2	96.1	92.4	104.4	150.6	173.7	156.1	125.6	106.2
85°	90.5	74.8	58.2	57.3	48.0	45.3	62.8	73.9	70.2	51.7	49.0
87.5°	33.3	29.6	18.5	14.8	9.2	6.5	3.7	3.7	2.8	2.8	2.8
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)