

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: P632523

Luminaire Tested: GWS-SA2C-830-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632523  
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-SA2C-830-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6670 lumens  
Efficiency: N/A  
Efficacy: 105.5 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

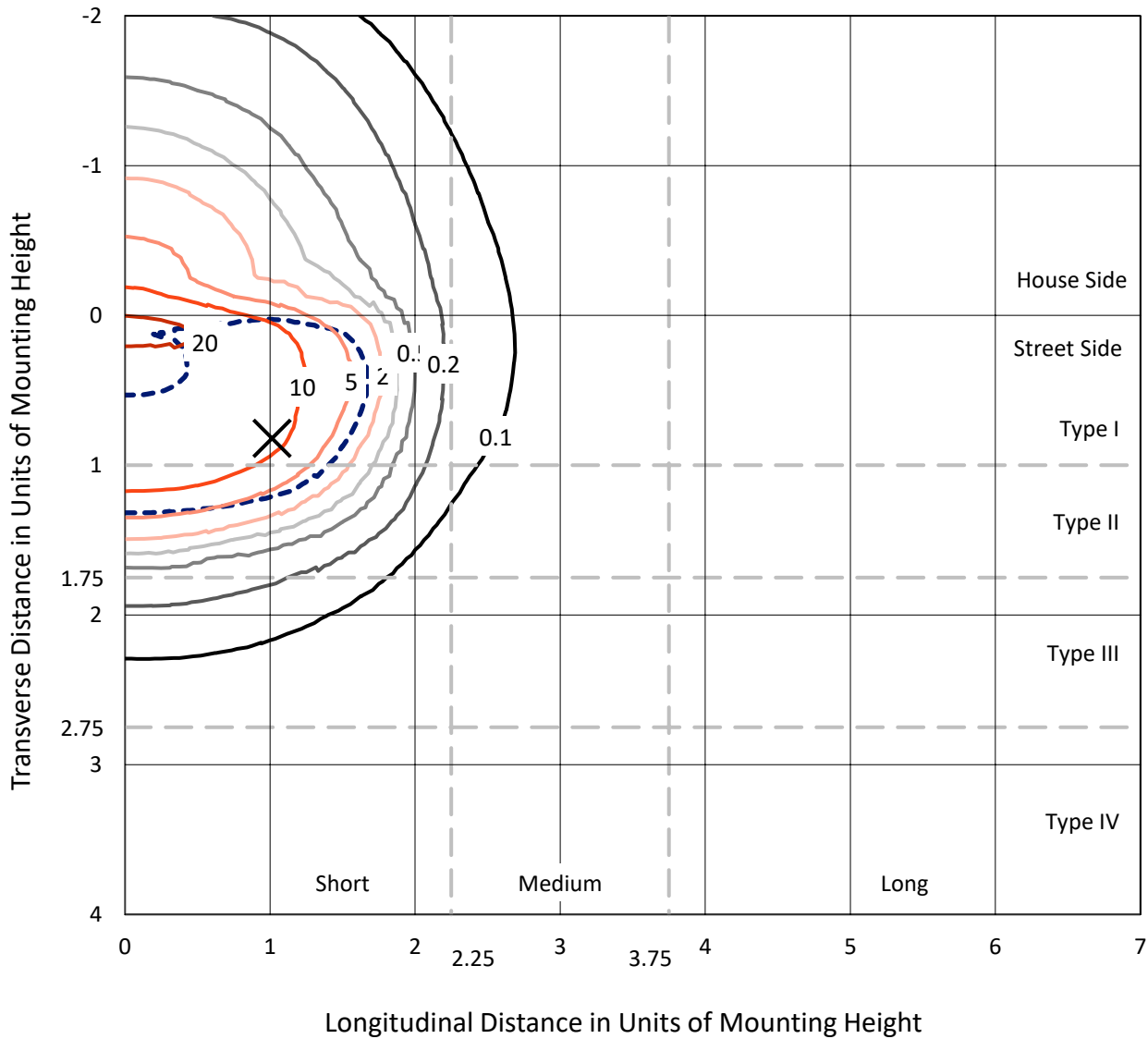


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### Iso-Footcandle Lines of Horizontal Illumination

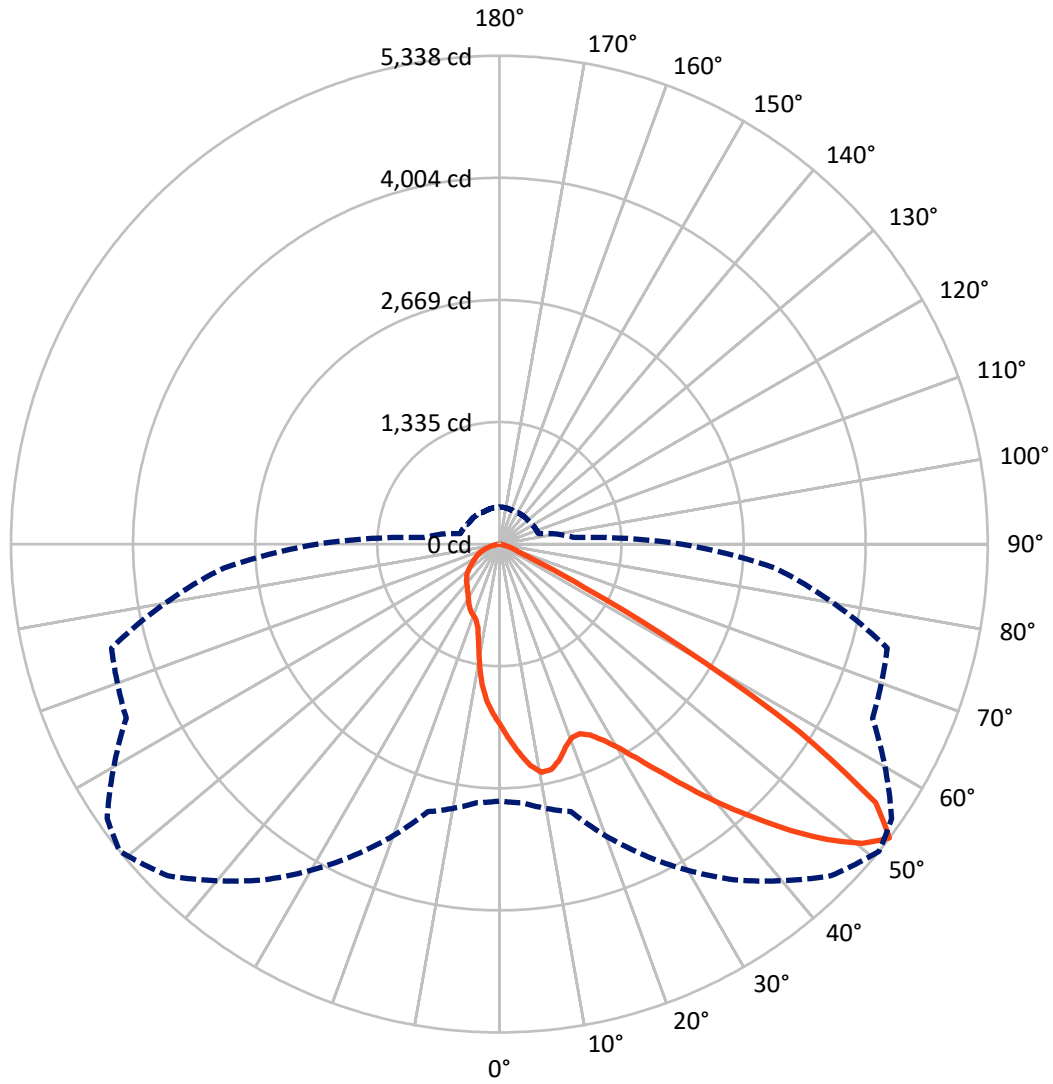
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.3 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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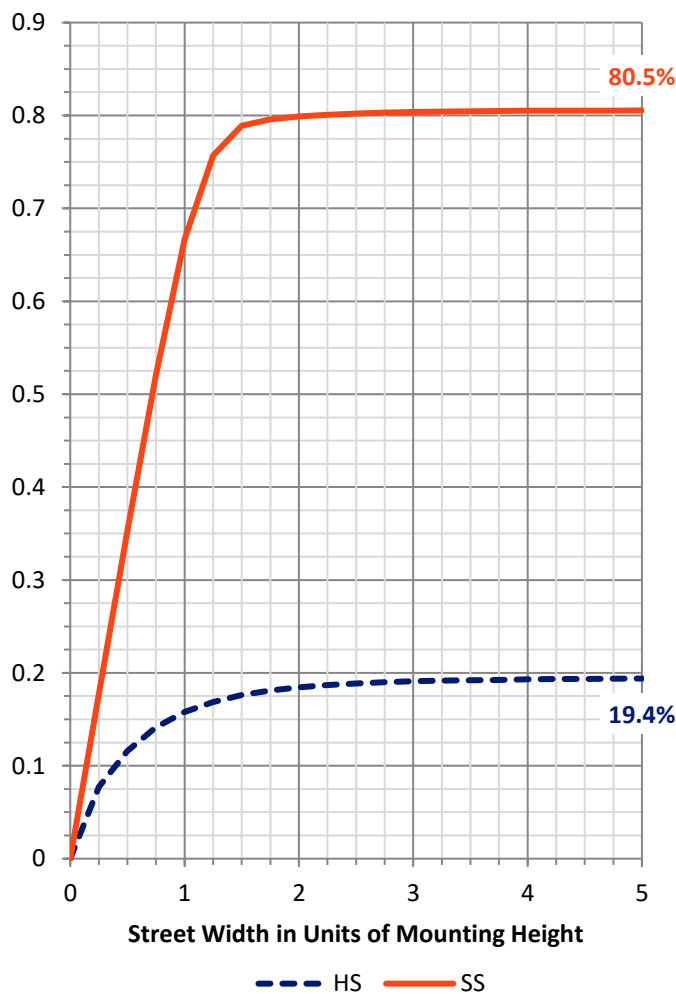
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1299.6	0.0	1299.6
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	5370.4	0.0	5370.4
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	6670.0	0.0	6670.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.3	2.8
10°-20°	481.5	7.2
20°-30°	782.9	11.7
30°-40°	1240.8	18.6
40°-50°	1871.4	28.1
50°-60°	1618.9	24.3
60°-70°	367.0	5.5
70°-80°	108.2	1.6
80°-90°	13.9	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°	6670.0	100.0
0°-180°	6670.0	100.0

**Coefficient of Utilization**



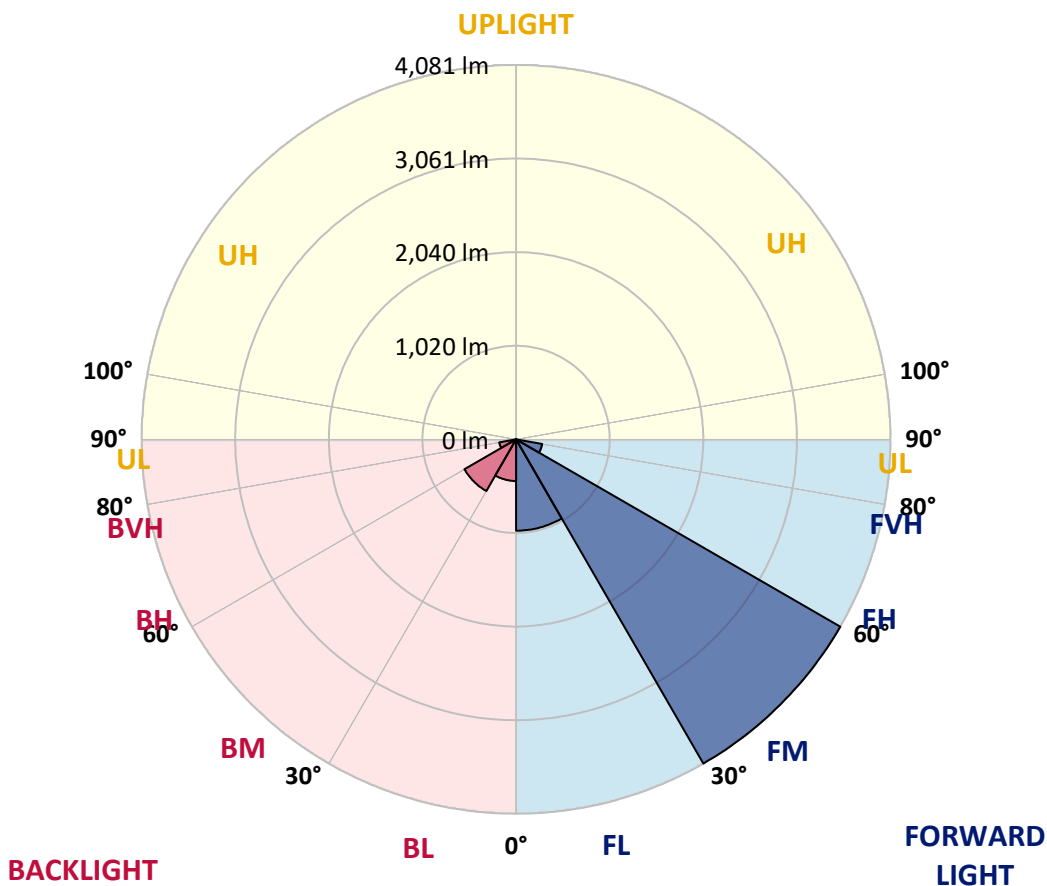
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	995.5	14.9			
FM (30°-60°)	4080.8	61.2			
FH (60°-80°)	288.8	4.3			G0/660
FVH (80°-90°)	5.3	0.1			G0/10
BL (0°-30°)	454.3	6.8	B1/500		
BM (30°-60°)	650.2	9.7	B1/1000		
BH (60°-80°)	186.4	2.8	B1/500		G1/500
BVH (80°-90°)	8.7	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°	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0
2.5°	2213.2	2225.8	2206.3	2198.9	2186.8	2165.7	2141.5	2134.6	2082.4	2048.2	2009.7
5°	2435.6	2442.4	2426.6	2410.8	2380.8	2343.3	2296.4	2286.4	2191.5	2113.0	2031.3
7.5°	2485.1	2482.5	2496.2	2505.2	2501.5	2486.7	2445.1	2425.6	2312.2	2187.9	2067.2
10°	2289.1	2274.3	2324.9	2385.0	2457.2	2540.5	2535.7	2534.1	2435.6	2288.5	2113.0
12.5°	2029.2	2021.8	2062.9	2138.3	2274.8	2459.3	2528.3	2582.1	2546.8	2384.5	2164.1
15°	1880.6	1877.9	1905.9	1960.2	2068.7	2301.7	2449.3	2555.8	2642.2	2487.2	2218.4
17.5°	1853.7	1855.3	1864.8	1895.9	1973.9	2165.7	2336.5	2485.1	2716.5	2600.0	2286.4
20°	1932.2	1942.8	1926.4	1931.2	1973.3	2116.7	2259.5	2414.0	2763.9	2713.3	2359.7
22.5°	2106.7	2103.0	2067.2	2046.1	2046.6	2146.7	2251.1	2380.8	2795.0	2823.5	2426.1
25°	2304.3	2300.1	2257.4	2210.5	2181.0	2228.4	2311.7	2416.1	2823.0	2924.2	2479.3
27.5°	2537.8	2524.7	2477.2	2417.1	2351.8	2372.3	2428.7	2511.5	2866.2	3023.3	2514.6
30°	2763.9	2779.2	2711.2	2640.1	2571.0	2558.4	2591.1	2665.9	2954.2	3139.2	2556.8
32.5°	3063.8	3058.6	2983.2	2890.4	2791.9	2782.4	2808.2	2876.7	3112.3	3299.4	2621.1
35°	3427.0	3428.0	3321.1	3195.6	3055.4	3030.1	3073.3	3139.7	3347.9	3516.6	2722.8
37.5°	3804.4	3802.8	3709.5	3567.2	3375.9	3340.0	3389.6	3439.1	3642.6	3812.3	2881.0
40°	4069.0	4079.5	4035.8	3960.9	3779.6	3692.1	3735.9	3770.1	3963.0	4160.1	3089.1
42.5°	4219.2	4235.0	4244.5	4289.3	4193.9	4100.6	4084.8	4102.7	4249.2	4483.2	3284.7
45°	4251.3	4272.4	4341.5	4507.5	4544.4	4518.0	4466.4	4423.2	4462.7	4712.5	3412.8
47.5°	4109.5	4146.4	4294.0	4584.4	4800.0	4882.8	4825.3	4759.4	4586.0	4771.5	3399.6
50°	3547.7	3590.9	3923.5	4427.4	4836.4	5137.9	5143.1	5045.6	4571.3	4601.3	3234.1
52.5°	2808.7	2838.3	3028.5	3753.3	4479.5	5127.3	5338.1	5233.8	4500.1	4388.4	3027.0
55°	1678.7	1726.1	1903.8	2476.2	3489.7	4544.4	4993.4	5044.0	4465.3	4209.7	2885.7
57.5°	566.6	589.8	759.5	1093.7	2056.6	3327.4	3858.1	4063.7	4053.7	3936.7	2610.0
60°	269.9	275.1	309.4	414.8	823.3	1738.8	2283.8	2521.0	2737.1	2758.7	1623.9
62.5°	205.6	208.7	226.1	248.8	331.0	732.6	1046.8	1228.1	1311.9	1125.8	591.4
65°	171.8	174.5	187.6	201.9	225.1	317.3	401.6	463.3	417.4	325.2	282.0
67.5°	143.4	145.5	155.5	170.8	186.6	212.4	222.9	229.3	240.3	269.9	259.3
70°	112.3	114.4	124.9	138.1	153.4	159.7	169.7	176.0	198.2	236.1	235.1
72.5°	86.4	89.1	94.9	103.3	116.0	122.3	133.3	140.7	153.4	183.9	196.6
75°	63.2	64.8	70.1	72.7	74.3	72.7	83.8	92.2	109.1	120.7	123.9
77.5°	25.8	29.0	27.9	27.9	33.2	40.1	45.9	51.1	62.7	69.6	70.1
80°	10.5	11.6	13.7	15.3	18.4	23.7	27.4	29.5	34.8	39.0	42.2
82.5°	6.3	6.9	7.9	8.4	10.5	13.7	15.8	17.4	21.6	25.8	27.4
85°	3.2	3.2	3.7	4.2	5.3	6.3	7.4	8.4	11.1	13.7	15.3
87.5°	0.5	0.5	0.5	1.1	1.6	2.1	2.6	3.2	3.7	4.2	5.3
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°	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0
2.5°	1987.0	1958.6	1925.4	1899.0	1868.5	1845.8	1813.6	1793.6	1774.6	1758.8	1747.2
5°	1989.2	1941.2	1872.1	1811.0	1747.8	1687.7	1626.0	1575.9	1531.1	1493.7	1490.5
7.5°	2001.3	1932.2	1824.2	1717.2	1593.9	1474.7	1355.6	1258.6	1184.8	1146.4	1138.5
10°	2021.8	1931.2	1775.2	1604.4	1394.1	1202.2	1061.0	987.2	944.5	929.2	923.9
12.5°	2043.4	1928.5	1712.4	1445.2	1153.2	985.1	907.6	898.7	906.6	907.6	907.1
15°	2069.8	1927.0	1633.4	1258.6	977.2	884.4	889.7	908.7	927.1	931.3	931.3
17.5°	2101.9	1923.3	1525.9	1076.3	867.0	864.9	892.9	918.2	935.5	938.7	938.7
20°	2135.7	1913.8	1393.6	927.6	822.2	852.8	882.8	902.3	914.5	918.7	919.2
22.5°	2158.9	1888.5	1241.2	817.5	794.3	829.6	851.2	871.2	871.2	860.7	857.5
25°	2163.6	1834.2	1076.3	742.1	761.1	793.8	815.9	804.3	782.7	774.3	773.7
27.5°	2146.2	1755.1	913.4	688.4	721.0	753.7	750.0	733.2	723.7	715.2	718.4
30°	2125.1	1660.3	772.2	644.1	674.6	706.8	694.1	688.4	681.5	672.0	674.1
32.5°	2110.9	1554.3	663.6	609.8	643.5	648.8	657.8	657.3	650.9	633.0	632.0
35°	2115.1	1447.3	590.8	581.9	617.7	615.6	632.5	629.3	585.6	560.8	559.2
37.5°	2148.9	1344.6	548.2	559.7	576.6	589.8	604.5	566.6	551.3	535.5	536.6
40°	2213.2	1249.2	525.0	547.6	551.8	571.3	537.1	536.6	529.7	515.5	514.9
42.5°	2285.9	1168.5	509.1	541.8	536.0	539.7	503.3	507.6	507.0	498.1	495.4
45°	2330.2	1094.2	496.5	520.2	521.8	484.9	473.8	478.6	481.2	476.5	475.9
47.5°	2284.3	1008.8	483.3	487.0	500.7	460.1	446.4	447.0	451.7	452.2	450.1
50°	2155.7	913.4	467.5	458.5	449.6	434.3	421.7	419.0	423.8	428.5	430.1
52.5°	1989.7	822.2	441.2	427.5	406.4	406.4	400.6	392.1	398.5	404.8	406.9
55°	1867.9	754.8	403.7	388.4	365.3	373.2	372.1	364.7	373.2	377.9	379.5
57.5°	1618.6	606.7	355.2	350.5	331.0	340.5	342.6	333.1	328.9	329.9	331.5
60°	960.8	391.6	320.5	319.9	302.5	313.6	319.9	310.4	297.8	299.4	301.5
62.5°	431.1	299.4	276.7	274.6	274.1	288.3	295.2	286.2	268.3	269.9	272.0
65°	271.4	258.8	240.3	240.3	248.8	260.9	266.2	258.8	238.2	235.6	237.7
67.5°	251.9	240.9	221.9	218.2	222.4	232.4	233.0	218.7	206.6	204.5	204.5
70°	226.1	217.7	199.2	191.9	190.3	189.7	188.2	184.5	176.6	174.5	175.5
72.5°	187.1	181.3	169.7	161.8	157.6	157.1	150.7	147.6	140.7	139.7	139.1
75°	123.9	125.4	125.4	124.4	120.7	119.1	112.3	109.1	101.2	98.0	97.5
77.5°	73.3	74.8	77.0	77.5	77.0	77.0	70.6	66.9	59.0	54.8	53.8
80°	44.8	45.9	46.9	48.5	46.4	44.8	39.0	35.3	31.6	29.0	28.5
82.5°	29.0	30.0	30.6	31.6	30.6	28.5	23.7	21.6	19.0	16.9	16.3
85°	16.3	16.9	17.9	17.9	16.3	14.8	12.1	10.5	9.0	7.9	7.9
87.5°	5.8	5.8	5.8	6.3	5.3	4.7	3.2	2.1	1.6	1.6	1.6
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)