

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: P631808

Luminaire Tested: GWS-SA2B-740-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631808  
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-SA2B-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

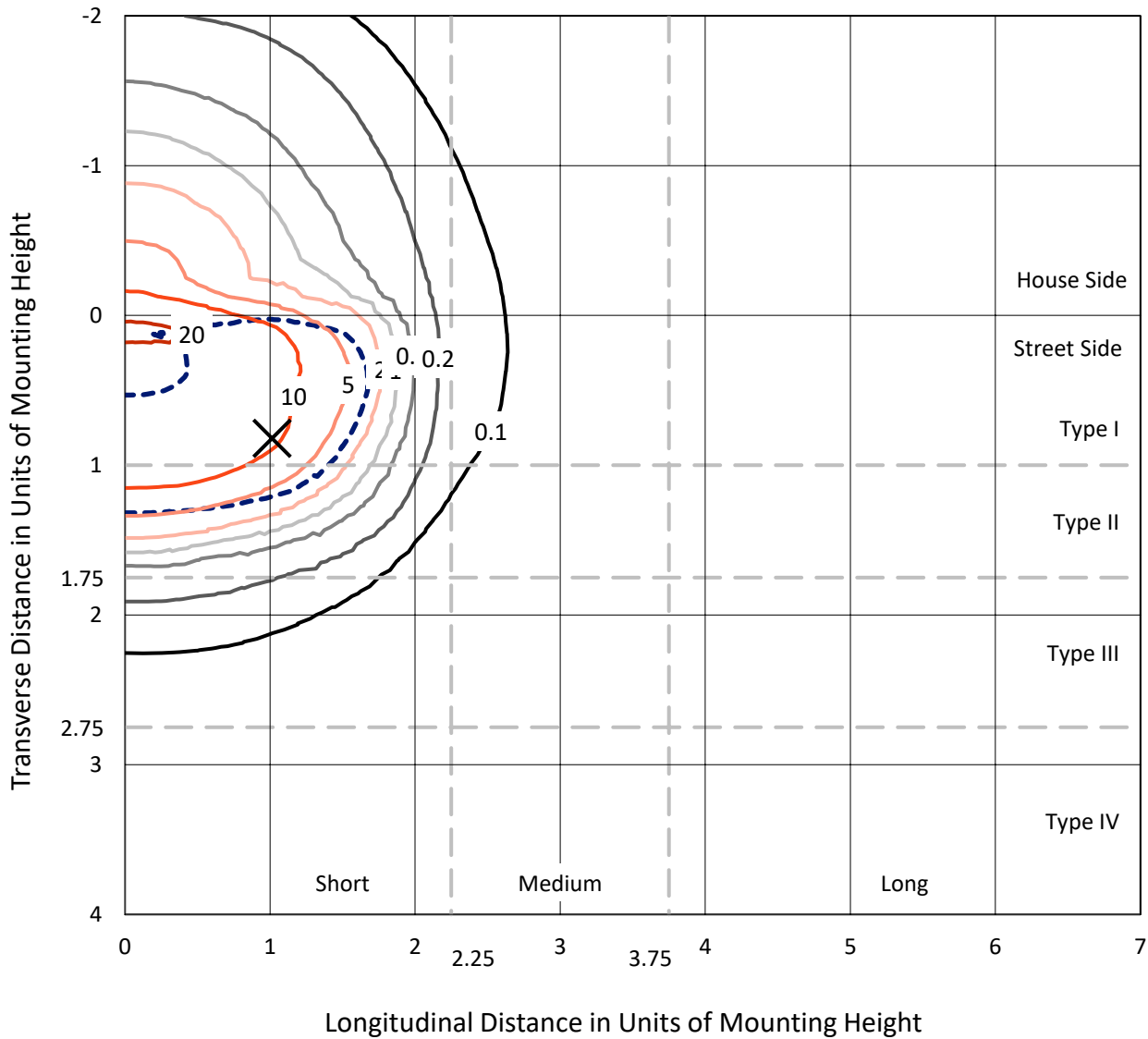
Lumens per Lamp: N/A  
Luminaire Lumens: 6260.8 lumens  
Efficiency: N/A  
Efficacy: 134.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

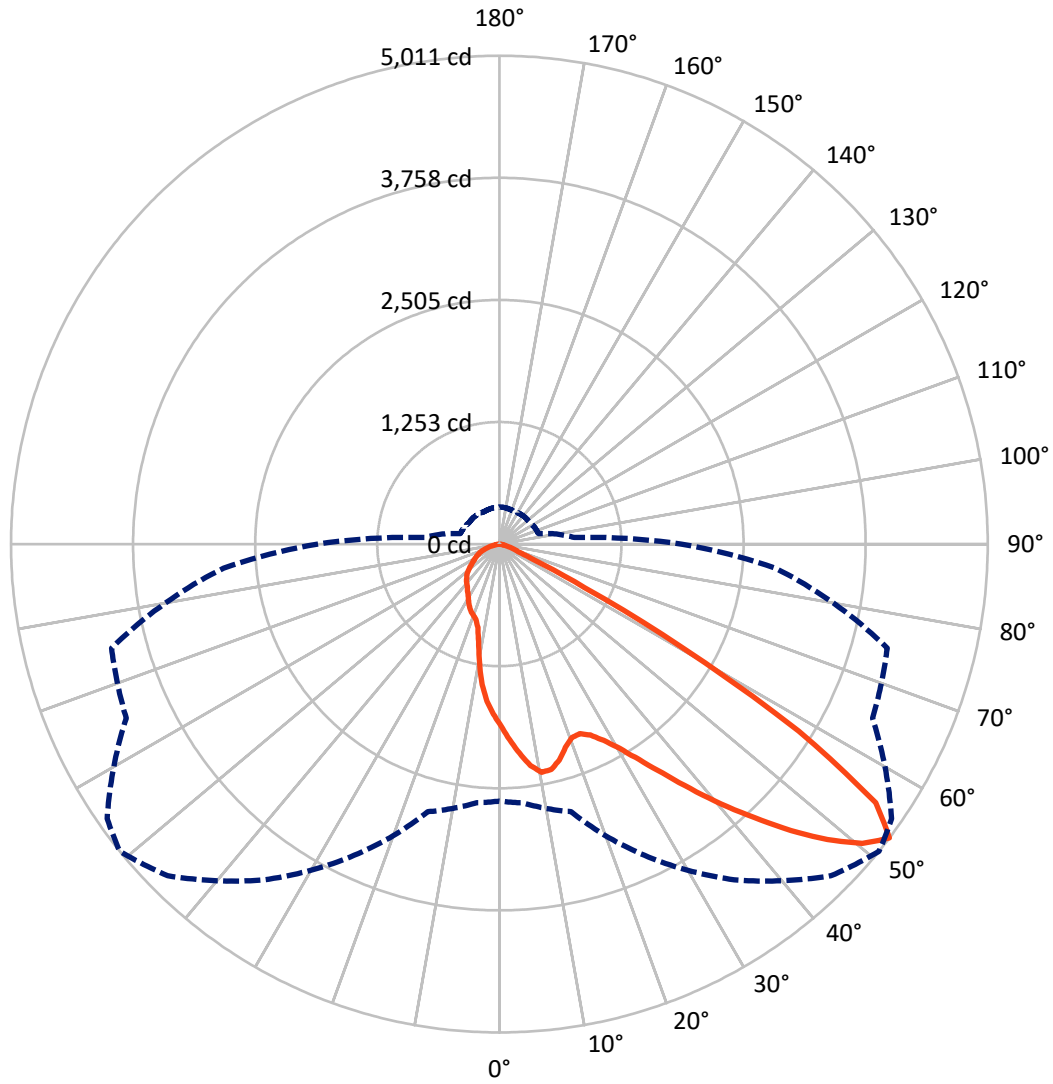
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.8 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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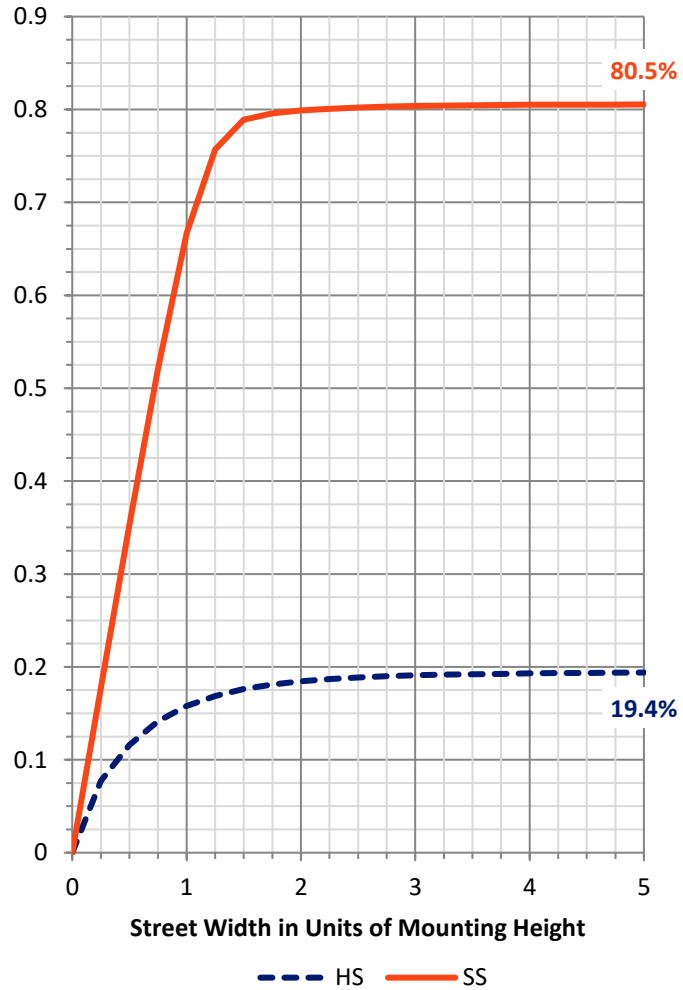
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1219.9	0.0	1219.9
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	5040.9	0.0	5040.9
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	6260.8	0.0	6260.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.0	2.8
10°-20°	452.0	7.2
20°-30°	734.9	11.7
30°-40°	1164.7	18.6
40°-50°	1756.6	28.1
50°-60°	1519.6	24.3
60°-70°	344.5	5.5
70°-80°	101.6	1.6
80°-90°	13.1	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°	6260.8	100.0
0°-180°	6260.8	100.0

**Coefficient of Utilization**



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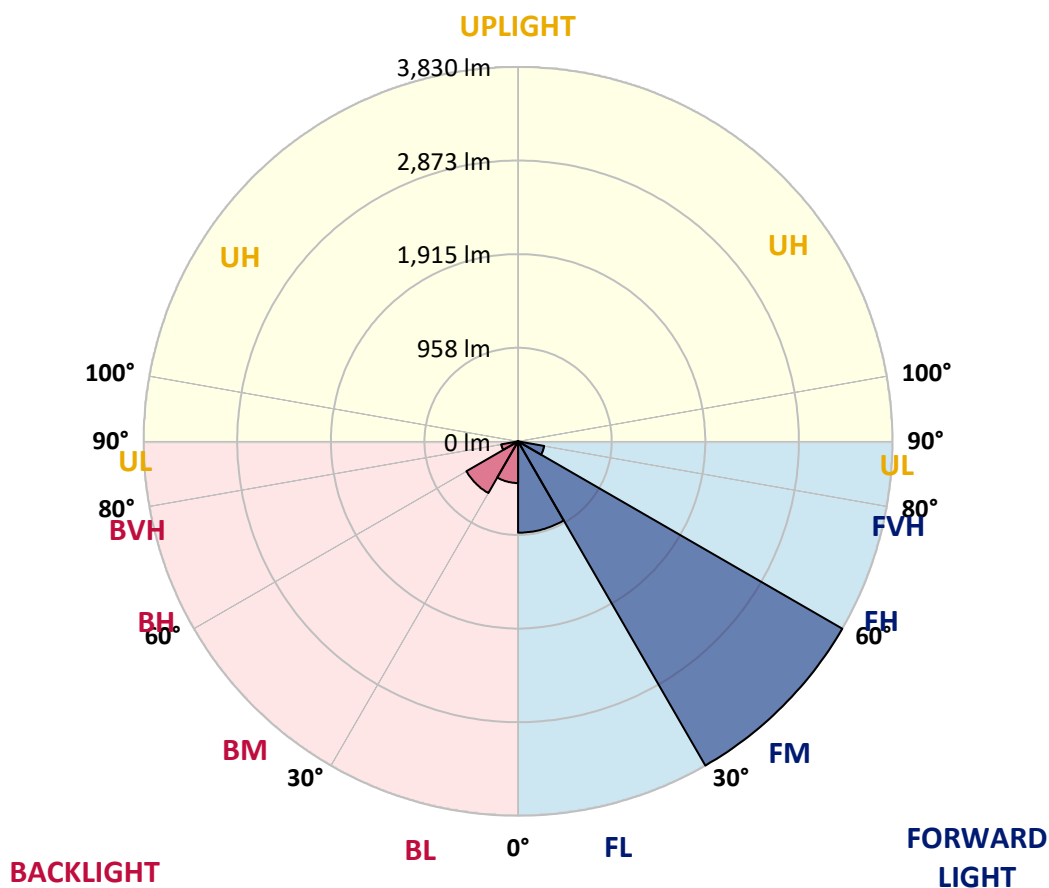
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	934.4	14.9			
FM (30°-60°)	3830.4	61.2			
FH (60°-80°)	271.1	4.3			G0/660
FVH (80°-90°)	4.9	0.1			G0/10
BL (0°-30°)	426.4	6.8	B1/500		
BM (30°-60°)	610.3	9.7	B1/1000		
BH (60°-80°)	175.0	2.8	B1/500		G1/500
BVH (80°-90°)	8.2	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°	1864.2	1864.2	1864.2	1864.2	1864.2	1864.2	1864.2	1864.2	1864.2	1864.2	1864.2
2.5°	2077.4	2089.3	2071.0	2064.0	2052.6	2032.9	2010.1	2003.7	1954.7	1922.5	1886.4
5°	2286.2	2292.6	2277.7	2262.9	2234.7	2199.6	2155.6	2146.2	2057.1	1983.4	1906.7
7.5°	2332.7	2330.2	2343.1	2351.5	2348.0	2334.1	2295.1	2276.8	2170.4	2053.6	1940.3
10°	2148.6	2134.8	2182.3	2238.7	2306.4	2384.6	2380.2	2378.7	2286.2	2148.1	1983.4
12.5°	1904.7	1897.8	1936.4	2007.1	2135.3	2308.4	2373.2	2423.7	2390.5	2238.2	2031.4
15°	1765.2	1762.7	1789.0	1839.9	1941.8	2160.5	2299.0	2399.0	2480.1	2334.6	2082.3
17.5°	1740.0	1741.5	1750.4	1779.6	1852.8	2032.9	2193.1	2332.7	2549.9	2440.5	2146.2
20°	1813.7	1823.6	1808.2	1812.7	1852.3	1986.8	2120.9	2265.9	2594.4	2546.9	2214.9
22.5°	1977.4	1974.0	1940.3	1920.6	1921.0	2015.0	2113.0	2234.7	2623.6	2650.3	2277.3
25°	2163.0	2159.0	2118.9	2074.9	2047.2	2091.7	2169.9	2267.9	2649.8	2744.8	2327.2
27.5°	2382.1	2369.8	2325.2	2268.8	2207.5	2226.8	2279.7	2357.4	2690.4	2837.8	2360.4
30°	2594.4	2608.7	2544.9	2478.1	2413.3	2401.4	2432.1	2502.4	2773.0	2946.6	2399.9
32.5°	2875.9	2870.9	2800.2	2713.1	2620.6	2611.7	2635.9	2700.3	2921.4	3097.0	2460.3
35°	3216.8	3217.7	3117.3	2999.6	2868.0	2844.2	2884.8	2947.1	3142.5	3300.9	2555.8
37.5°	3571.0	3569.5	3481.9	3348.4	3168.8	3135.1	3181.6	3228.1	3419.1	3578.4	2704.2
40°	3819.3	3829.2	3788.2	3717.9	3547.7	3465.6	3506.7	3538.8	3719.9	3904.9	2899.6
42.5°	3960.3	3975.2	3984.1	4026.1	3936.6	3849.0	3834.2	3851.0	3988.5	4208.2	3083.2
45°	3990.5	4010.3	4075.1	4231.0	4265.6	4240.8	4192.4	4151.8	4188.9	4423.4	3203.4
47.5°	3857.4	3892.1	4030.6	4303.2	4505.5	4583.2	4529.3	4467.4	4304.7	4478.8	3191.0
50°	3330.0	3370.6	3682.8	4155.8	4539.7	4822.7	4827.6	4736.1	4290.8	4319.0	3035.7
52.5°	2636.4	2664.1	2842.7	3523.0	4204.7	4812.8	5010.7	4912.7	4224.0	4119.1	2841.2
55°	1575.7	1620.2	1787.0	2324.3	3275.6	4265.6	4687.1	4734.6	4191.4	3951.4	2708.7
57.5°	531.8	553.6	712.9	1026.6	1930.4	3123.2	3621.4	3814.4	3805.0	3695.2	2449.9
60°	253.3	258.3	290.4	389.4	772.8	1632.1	2143.7	2366.3	2569.1	2589.4	1524.3
62.5°	192.9	195.9	212.2	233.5	310.7	687.7	982.5	1152.7	1231.4	1056.7	555.1
65°	161.3	163.8	176.1	189.5	211.3	297.8	377.0	434.9	391.8	305.3	264.7
67.5°	134.6	136.5	145.9	160.3	175.1	199.4	209.3	215.2	225.6	253.3	243.4
70°	105.4	107.4	117.3	129.6	144.0	149.9	159.3	165.2	186.0	221.6	220.7
72.5°	81.1	83.6	89.1	97.0	108.8	114.8	125.2	132.1	144.0	172.7	184.5
75°	59.4	60.9	65.8	68.3	69.8	68.3	78.7	86.6	102.4	113.3	116.3
77.5°	24.2	27.2	26.2	26.2	31.2	37.6	43.0	48.0	58.9	65.3	65.8
80°	9.9	10.9	12.9	14.3	17.3	22.3	25.7	27.7	32.7	36.6	39.6
82.5°	5.9	6.4	7.4	7.9	9.9	12.9	14.8	16.3	20.3	24.2	25.7
85°	3.0	3.0	3.5	4.0	4.9	5.9	6.9	7.9	10.4	12.9	14.3
87.5°	0.5	0.5	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.9
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°	1864.2	1864.2	1864.2	1864.2	1864.2	1864.2	1864.2	1864.2	1864.2	1864.2	1864.2
2.5°	1865.1	1838.4	1807.3	1782.5	1753.8	1732.6	1702.4	1683.6	1665.8	1650.9	1640.0
5°	1867.1	1822.1	1757.3	1699.9	1640.5	1584.1	1526.3	1479.3	1437.2	1402.1	1399.1
7.5°	1878.5	1813.7	1712.3	1611.8	1496.1	1384.3	1272.5	1181.4	1112.2	1076.0	1068.6
10°	1897.8	1812.7	1666.3	1506.0	1308.6	1128.5	995.9	926.6	886.6	872.2	867.3
12.5°	1918.1	1810.2	1607.4	1356.6	1082.5	924.7	851.9	843.5	850.9	851.9	851.4
15°	1942.8	1808.7	1533.2	1181.4	917.2	830.2	835.1	852.9	870.2	874.2	874.2
17.5°	1973.0	1805.3	1432.3	1010.2	813.8	811.9	838.1	861.8	878.2	881.1	881.1
20°	2004.7	1796.4	1308.1	870.7	771.8	800.5	828.7	847.0	858.4	862.3	862.8
22.5°	2026.4	1772.6	1165.1	767.3	745.6	778.7	799.0	817.8	817.8	807.9	804.9
25°	2030.9	1721.7	1010.2	696.6	714.4	745.1	765.8	755.0	734.7	726.8	726.3
27.5°	2014.6	1647.5	857.4	646.1	676.8	707.5	704.0	688.2	679.3	671.4	674.3
30°	1994.8	1558.4	724.8	604.6	633.3	663.4	651.6	646.1	639.7	630.8	632.8
32.5°	1981.4	1459.0	622.9	572.4	604.1	609.0	617.4	616.9	611.0	594.2	593.2
35°	1985.4	1358.5	554.6	546.2	579.8	577.8	593.7	590.7	549.6	526.4	524.9
37.5°	2017.0	1262.1	514.5	525.4	541.2	553.6	567.5	531.8	517.5	502.6	503.6
40°	2077.4	1172.5	492.8	514.0	518.0	536.3	504.1	503.6	497.2	483.8	483.4
42.5°	2145.7	1096.8	477.9	508.6	503.1	506.6	472.5	476.4	475.9	467.5	465.0
45°	2187.2	1027.1	466.0	488.3	489.8	455.2	444.8	449.2	451.7	447.2	446.7
47.5°	2144.2	946.9	453.7	457.1	470.0	431.9	419.0	419.5	424.0	424.5	422.5
50°	2023.5	857.4	438.8	430.4	422.0	407.7	395.8	393.3	397.8	402.2	403.7
52.5°	1867.6	771.8	414.1	401.2	381.4	381.4	376.0	368.1	374.0	380.0	381.9
55°	1753.3	708.5	379.0	364.6	342.8	350.3	349.3	342.4	350.3	354.7	356.2
57.5°	1519.3	569.4	333.4	329.0	310.7	319.6	321.6	312.7	308.7	309.7	311.2
60°	901.9	367.6	300.8	300.3	284.0	294.4	300.3	291.4	279.5	281.0	283.0
62.5°	404.7	281.0	259.7	257.8	257.3	270.6	277.1	268.6	251.8	253.3	255.3
65°	254.8	242.9	225.6	225.6	233.5	244.9	249.8	242.9	223.6	221.1	223.1
67.5°	236.5	226.1	208.3	204.8	208.8	218.2	218.7	205.3	193.9	192.0	192.0
70°	212.2	204.3	187.0	180.1	178.6	178.1	176.6	173.2	165.7	163.8	164.7
72.5°	175.6	170.2	159.3	151.9	147.9	147.4	141.5	138.5	132.1	131.1	130.6
75°	116.3	117.7	117.7	116.8	113.3	111.8	105.4	102.4	95.0	92.0	91.5
77.5°	68.8	70.3	72.2	72.7	72.2	72.2	66.3	62.8	55.4	51.5	50.5
80°	42.1	43.0	44.0	45.5	43.5	42.1	36.6	33.1	29.7	27.2	26.7
82.5°	27.2	28.2	28.7	29.7	28.7	26.7	22.3	20.3	17.8	15.8	15.3
85°	15.3	15.8	16.8	16.8	15.3	13.9	11.4	9.9	8.4	7.4	7.4
87.5°	5.4	5.4	5.4	5.9	4.9	4.5	3.0	2.0	1.5	1.5	1.5
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)