

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: P637509

Luminaire Tested: GWS-SA4C-830-U-T3-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637509  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-830-U-T3-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

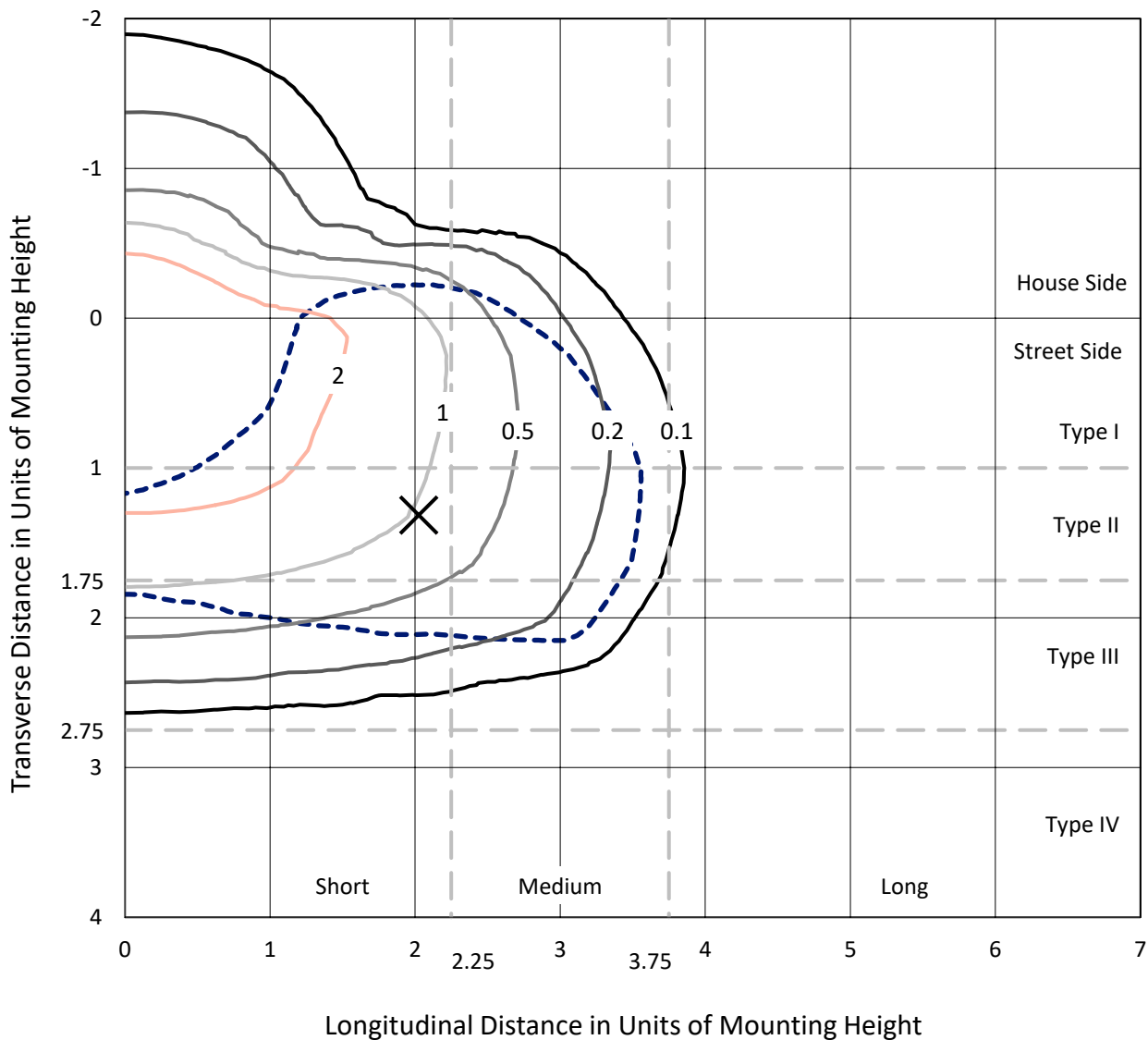
Lumens per Lamp: N/A  
Luminaire Lumens: 15430.9 lumens  
Efficiency: N/A  
Efficacy: 120.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): 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

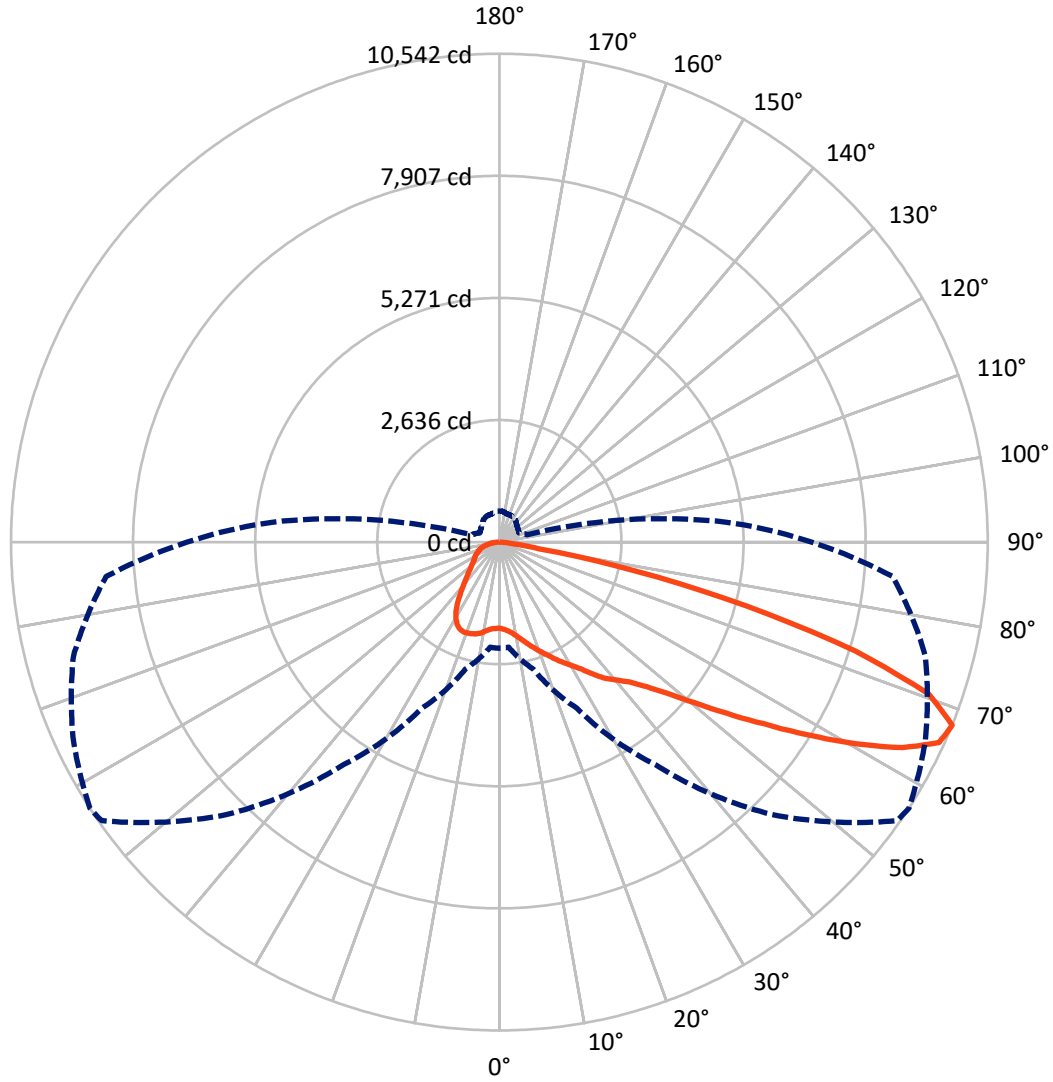
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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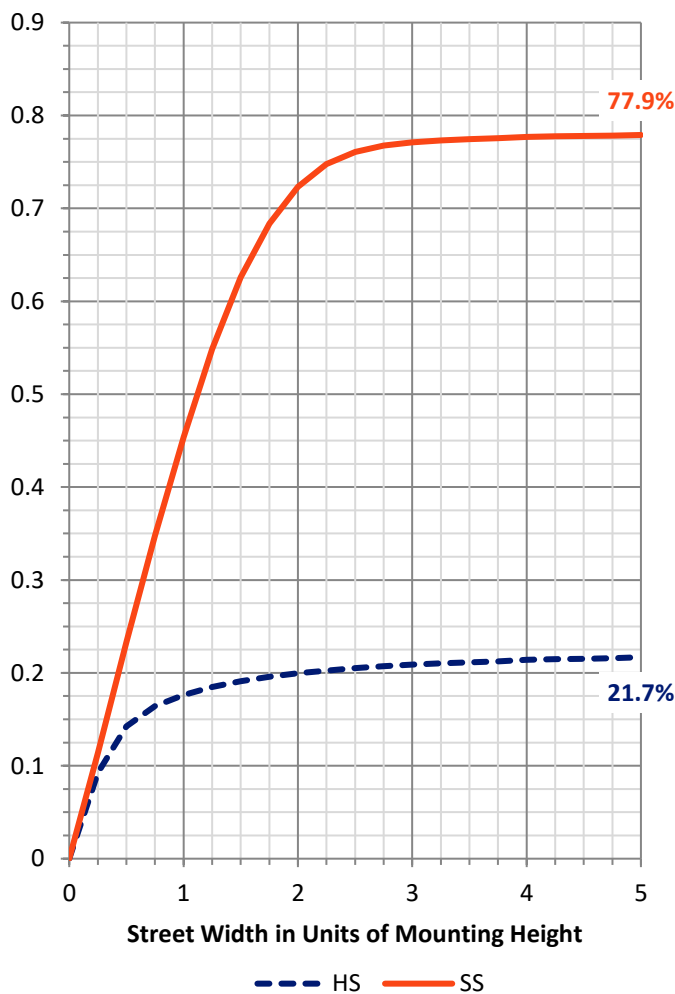
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3392.7	0.0	3392.7
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	12038.2	0.0	12038.2
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	15430.9	0.0	15430.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.4	1.2
10°-20°	610.5	4.0
20°-30°	1088.4	7.1
30°-40°	1582.3	10.3
40°-50°	2290.2	14.8
50°-60°	3584.1	23.2
60°-70°	4181.0	27.1
70°-80°	1745.3	11.3
80°-90°	164.7	1.1
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°	15430.9	100.0
0°-180°	15430.9	100.0

**Coefficient of Utilization**



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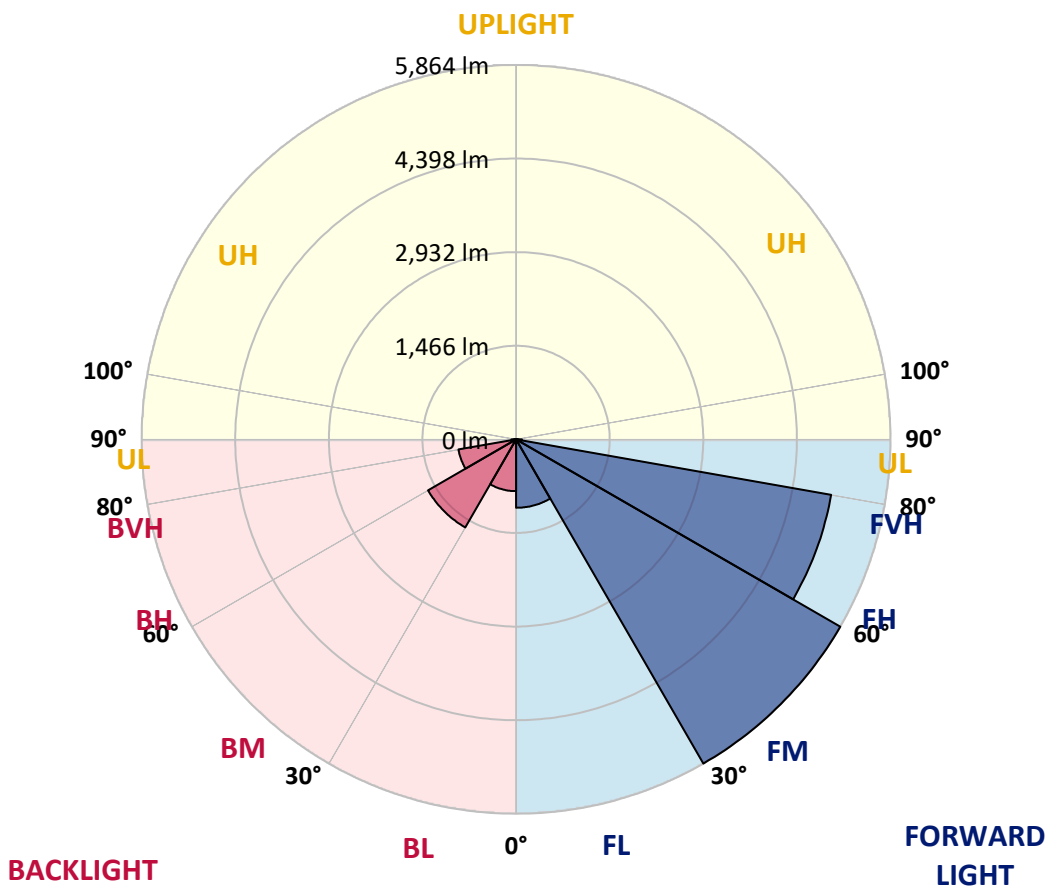
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1071.8	6.9			
FM (30°-60°)	5864.0	38.0			
FH (60°-80°)	5010.7	32.5			G3/7500
FVH (80°-90°)	91.8	0.6			G1/100
BL (0°-30°)	811.4	5.3	B2/1000		
BM (30°-60°)	1592.6	10.3	B2/2500		
BH (60°-80°)	915.7	5.9	B2/1000		G2/1000
BVH (80°-90°)	72.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1859.3	1859.3	1859.3	1859.3	1859.3	1859.3	1859.3	1859.3	1859.3	1859.3	1859.3
2.5°	1885.8	1883.6	1882.5	1889.2	1887.0	1885.8	1885.8	1884.7	1882.5	1873.7	1861.5
5°	1937.8	1933.4	1929.0	1934.5	1930.1	1925.6	1924.5	1922.3	1914.6	1901.3	1882.5
7.5°	1992.0	1987.5	1988.7	1992.0	1988.7	1986.4	1983.1	1980.9	1968.8	1947.8	1922.3
10°	2068.2	2068.2	2070.5	2073.8	2074.9	2071.6	2064.9	2061.6	2047.2	2020.7	1985.3
12.5°	2178.8	2176.6	2176.6	2174.4	2177.7	2174.4	2167.7	2162.2	2144.5	2110.2	2059.4
15°	2324.7	2315.9	2308.1	2293.7	2289.3	2277.2	2279.4	2276.1	2259.5	2213.1	2148.9
17.5°	2480.6	2479.5	2467.3	2438.6	2409.8	2389.9	2394.3	2393.2	2384.4	2321.4	2239.6
20°	2617.6	2623.2	2612.1	2590.0	2551.3	2513.7	2511.5	2517.0	2506.0	2443.0	2329.1
22.5°	2771.3	2766.9	2755.8	2727.1	2698.3	2658.5	2645.3	2640.9	2636.4	2564.6	2420.9
25°	2917.2	2930.5	2916.1	2889.6	2845.4	2802.2	2791.2	2795.6	2783.5	2688.4	2519.3
27.5°	3101.8	3107.3	3098.5	3062.0	3024.4	2963.6	2942.6	2942.6	2938.2	2804.5	2596.6
30°	3298.6	3314.1	3298.6	3268.7	3230.0	3142.7	3097.4	3093.0	3079.7	2923.8	2687.3
32.5°	3496.4	3507.5	3496.4	3467.7	3423.5	3347.2	3282.0	3272.0	3254.4	3054.3	2780.1
35°	3672.2	3682.2	3679.9	3686.6	3650.1	3553.9	3514.1	3509.7	3463.3	3224.5	2906.2
37.5°	3864.6	3876.7	3860.1	3873.4	3859.0	3768.4	3756.2	3734.1	3667.8	3384.8	3038.8
40°	4083.4	4094.5	4067.9	4073.5	4056.9	4006.0	3944.1	3914.3	3815.9	3558.4	3247.7
42.5°	4317.8	4343.2	4355.4	4345.4	4306.7	4278.0	4169.6	4132.1	4050.3	3871.2	3591.5
45°	4657.1	4694.7	4712.4	4687.0	4670.4	4629.5	4496.9	4451.5	4408.4	4312.2	4071.3
47.5°	5023.0	5057.3	5113.7	5124.7	5138.0	5107.0	4920.2	4876.0	4883.8	4872.7	4661.6
50°	5314.9	5343.6	5470.7	5606.7	5719.4	5728.3	5489.5	5442.0	5484.0	5519.4	5372.3
52.5°	5527.1	5552.5	5720.6	6001.3	6256.7	6445.7	6188.1	6134.0	6168.3	6247.8	6180.4
55°	5699.6	5734.9	5910.7	6341.8	6858.0	7156.5	6991.8	6923.3	6908.9	7007.3	7046.0
57.5°	5790.2	5801.3	6047.8	6608.2	7299.1	7854.0	7925.9	7848.5	7711.4	7765.6	7966.8
60°	5583.5	5602.3	5939.4	6676.7	7647.3	8546.0	8906.4	8842.3	8550.4	8580.3	8802.5
62.5°	5012.0	5038.5	5444.2	6350.6	7676.0	9008.1	9811.7	9770.8	9379.5	9218.1	9284.4
65°	4020.4	4029.3	4449.3	5543.7	7104.5	9065.6	10442.9	10433.0	9958.7	9580.7	9296.6
67.5°	2292.6	2277.2	2838.7	3954.1	5863.2	8318.3	10483.8	10542.4	10146.7	9521.0	8522.8
70°	993.8	996.0	1254.7	1951.1	3794.9	6723.2	9737.7	9838.2	9602.8	8527.2	6780.7
72.5°	459.9	466.5	578.1	844.5	1620.5	4170.8	7940.2	8030.9	7828.6	6824.9	4933.5
75°	325.0	330.5	385.8	484.2	745.1	1625.0	5311.5	5501.7	5600.1	5104.8	3251.0
77.5°	246.5	254.2	281.9	336.0	459.9	575.9	2541.4	2994.6	3567.2	3175.9	1674.7
80°	157.0	157.0	186.8	224.4	280.8	299.6	734.0	870.0	1745.5	1308.8	657.7
82.5°	106.1	109.4	127.1	142.6	161.4	170.2	315.0	336.0	504.1	445.5	270.8
85°	56.4	58.6	66.3	65.2	77.4	67.4	132.7	131.5	184.6	202.3	102.8
87.5°	0.0	0.0	1.1	1.1	2.2	3.3	14.4	15.5	38.7	61.9	34.3
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°	1859.3	1859.3	1859.3	1859.3	1859.3	1859.3	1859.3	1859.3	1859.3	1859.3	1859.3
2.5°	1868.2	1854.9	1861.5	1859.3	1866.0	1866.0	1853.8	1850.5	1851.6	1838.3	1833.9
5°	1884.7	1869.3	1872.6	1868.2	1874.8	1880.3	1874.8	1874.8	1881.4	1871.5	1866.0
7.5°	1922.3	1904.6	1904.6	1899.1	1906.9	1911.3	1906.9	1913.5	1925.6	1915.7	1910.2
10°	1982.0	1961.0	1962.1	1955.5	1958.8	1956.6	1938.9	1933.4	1936.7	1927.9	1923.4
12.5°	2059.4	2030.7	2030.7	2017.4	2009.7	1986.4	1950.0	1936.7	1938.9	1931.2	1927.9
15°	2133.5	2106.9	2101.4	2074.9	2039.5	1996.4	1963.2	1954.4	1956.6	1948.9	1943.3
17.5°	2220.8	2186.5	2166.6	2118.0	2052.8	2008.6	1975.4	1954.4	1936.7	1919.0	1914.6
20°	2301.5	2258.4	2221.9	2146.7	2067.1	2006.3	1944.4	1892.5	1849.4	1826.2	1820.6
22.5°	2384.4	2329.1	2265.0	2166.6	2066.0	1966.5	1852.7	1774.2	1710.1	1675.8	1682.5
25°	2462.9	2393.2	2305.9	2185.4	2030.7	1878.1	1723.4	1606.2	1533.2	1506.7	1499.0
27.5°	2528.1	2441.9	2343.5	2176.6	1957.7	1751.0	1546.5	1416.0	1345.3	1315.5	1307.7
30°	2601.1	2503.8	2397.7	2135.7	1842.7	1573.0	1346.4	1240.3	1189.4	1160.7	1161.8
32.5°	2685.1	2583.4	2473.9	2057.2	1695.7	1380.7	1181.7	1108.7	1067.8	1039.1	1034.7
35°	2797.8	2697.2	2524.8	1938.9	1508.9	1203.8	1068.9	1009.2	958.4	920.8	913.1
37.5°	2937.1	2868.6	2530.3	1780.8	1308.8	1082.2	988.2	924.1	862.2	812.5	807.0
40°	3175.9	3097.4	2485.0	1583.0	1138.6	1003.7	920.8	846.8	774.9	719.6	711.9
42.5°	3516.3	3355.0	2387.7	1359.7	1010.4	941.8	856.7	762.7	689.8	651.1	645.6
45°	3949.7	3642.4	2241.8	1149.6	915.3	881.0	789.3	690.9	652.2	624.6	619.0
47.5°	4480.3	3977.3	2073.8	986.0	841.2	825.7	720.7	666.6	632.3	609.1	603.6
50°	5114.8	4404.0	1935.6	857.8	774.9	761.6	698.6	652.2	624.6	605.8	601.3
52.5°	5838.8	4878.2	1868.2	766.1	717.4	704.2	690.9	648.9	625.7	611.3	605.8
55°	6590.5	5377.9	1805.2	695.3	668.8	676.5	692.0	659.9	642.2	623.5	617.9
57.5°	7316.8	5846.6	1650.4	640.0	633.4	663.3	697.5	671.0	650.0	631.2	624.6
60°	7817.5	6103.0	1388.4	595.8	606.9	646.7	683.2	654.4	627.9	620.1	616.8
62.5°	7952.4	6072.1	1077.8	550.5	574.8	610.2	645.6	626.8	599.1	611.3	612.4
65°	7637.4	5740.5	809.2	506.3	532.8	562.7	606.9	599.1	589.2	622.4	623.5
67.5°	6745.3	4925.8	616.8	467.6	489.7	526.2	594.7	626.8	629.0	671.0	666.6
70°	5103.7	3679.9	483.1	431.1	456.5	526.2	633.4	647.8	621.2	659.9	651.1
72.5°	3528.5	2428.6	411.2	399.1	415.6	501.9	632.3	632.3	603.6	603.6	587.0
75°	2192.1	1428.2	358.2	358.2	358.2	438.9	614.6	582.6	531.7	508.5	495.2
77.5°	1082.2	694.2	300.7	311.7	299.6	367.0	501.9	476.4	445.5	421.2	412.3
80°	462.1	347.1	243.2	255.4	241.0	276.4	398.0	392.4	362.6	330.5	320.6
82.5°	212.2	179.1	194.6	200.1	175.8	207.8	290.7	290.7	274.1	229.9	213.3
85°	90.6	95.1	134.9	134.9	110.5	117.2	155.9	148.1	132.7	108.3	99.5
87.5°	31.0	46.4	68.5	59.7	23.2	9.9	5.5	2.2	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)