

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: P637242

Luminaire Tested: GWS-SA4C-735-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637242  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-735-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

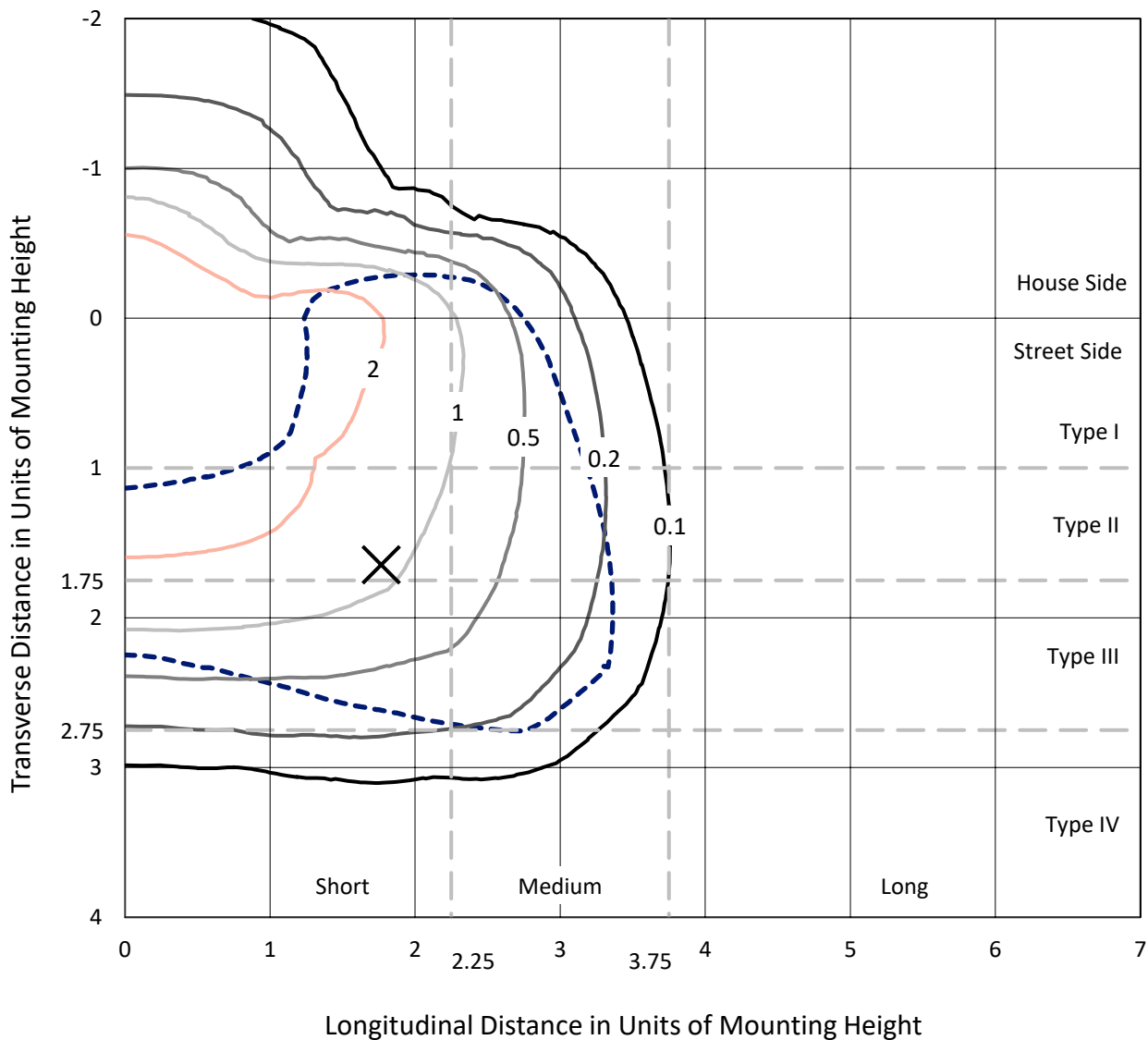
Lumens per Lamp: N/A  
Luminaire Lumens: 18981.6 lumens  
Efficiency: N/A  
Efficacy: 147.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): 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

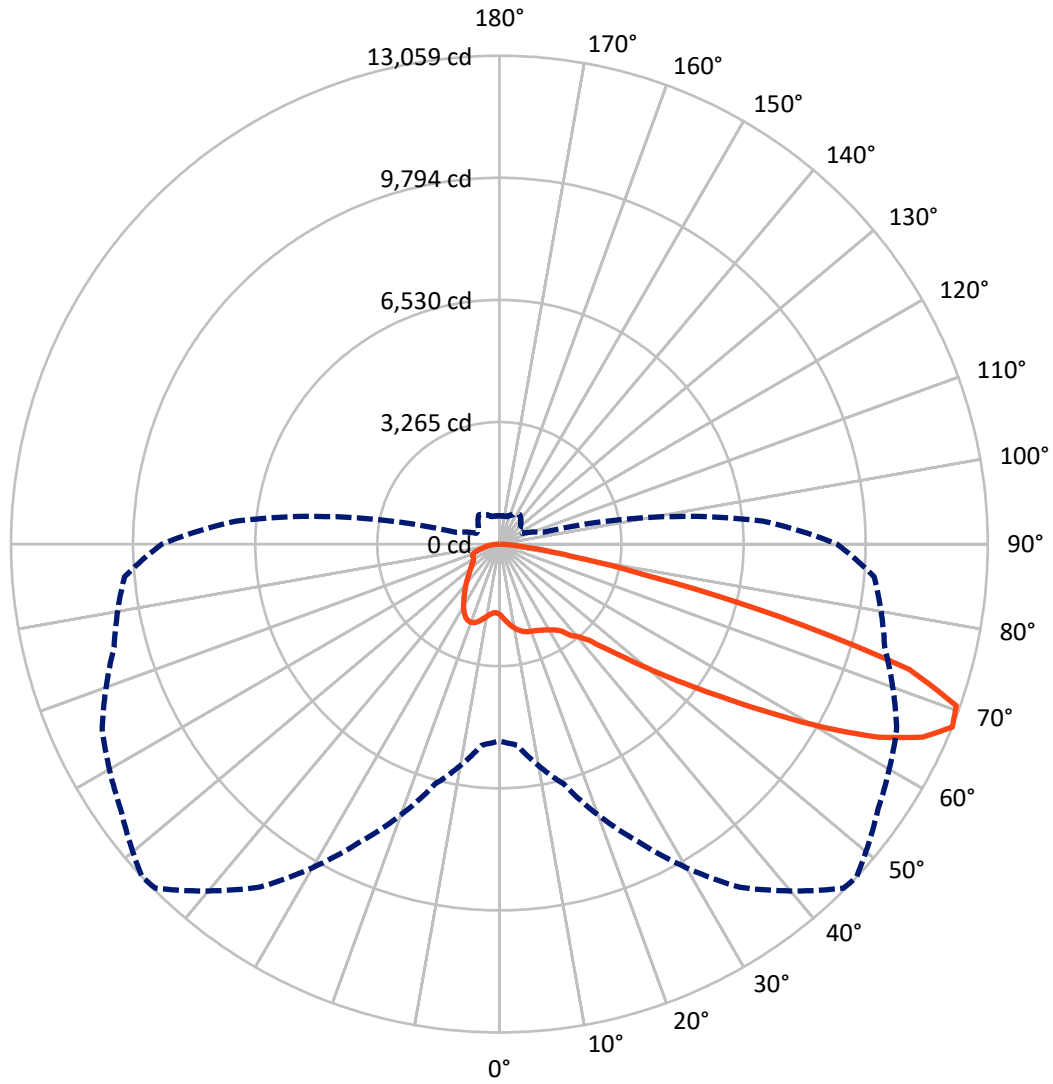
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4326.1	0.0	4326.1
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	14655.6	0.0	14655.6
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	18981.6	0.0	18981.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.3	1.0
10°-20°	640.7	3.4
20°-30°	1089.0	5.7
30°-40°	1595.3	8.4
40°-50°	2430.6	12.8
50°-60°	4348.9	22.9
60°-70°	5803.2	30.6
70°-80°	2624.3	13.8
80°-90°	257.1	1.4
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°	18981.6	100.0
0°-180°	18981.6	100.0

**Coefficient of Utilization**



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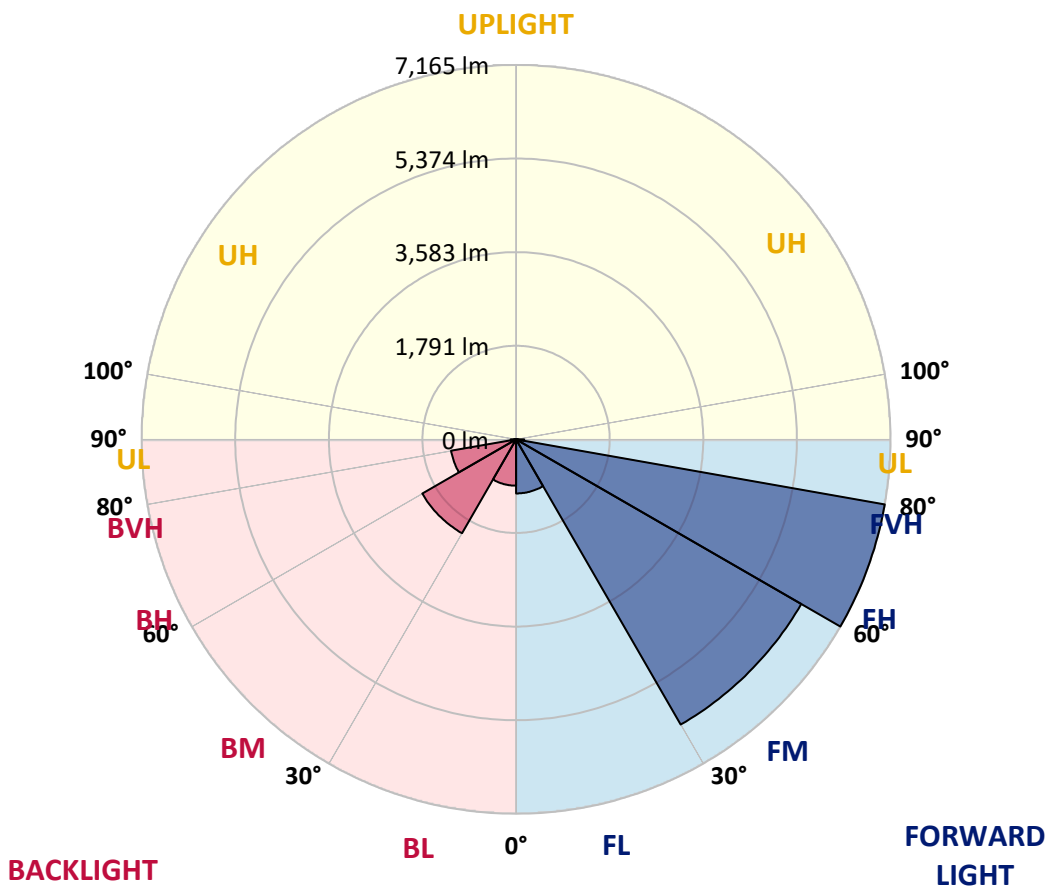
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1035.2	5.5			
FM (30°-60°)	6302.1	33.2			
FH (60°-80°)	7165.3	37.7			G3/7500
FVH (80°-90°)	152.9	0.8			G2/225
BL (0°-30°)	886.9	4.7	B2/1000		
BM (30°-60°)	2072.8	10.9	B2/2500		
BH (60°-80°)	1262.2	6.6	B3/2500		G3/2500
BVH (80°-90°)	104.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1881.7	1881.7	1881.7	1881.7	1881.7	1881.7	1881.7	1881.7	1881.7	1881.7	1881.7
2.5°	2006.6	2013.4	2012.1	2001.1	1994.2	1981.9	1983.2	1964.0	1935.2	1916.0	1894.0
5°	2183.6	2194.6	2180.9	2163.0	2135.6	2095.8	2091.7	2047.7	1992.8	1954.4	1914.6
7.5°	2337.3	2344.2	2327.7	2297.5	2257.7	2204.2	2194.6	2142.4	2073.8	2013.4	1955.8
10°	2456.7	2465.0	2443.0	2403.2	2351.1	2297.5	2290.7	2237.2	2164.4	2093.0	2020.3
12.5°	2558.3	2561.1	2537.7	2484.2	2427.9	2373.0	2366.2	2316.8	2249.5	2176.8	2097.2
15°	2617.3	2618.7	2589.9	2530.9	2477.3	2429.3	2425.2	2382.6	2320.9	2252.2	2167.2
17.5°	2613.2	2616.0	2595.4	2543.2	2496.6	2467.7	2463.6	2436.2	2388.1	2326.4	2241.3
20°	2562.4	2565.2	2551.5	2517.1	2492.4	2484.2	2485.6	2477.3	2448.5	2397.7	2311.3
22.5°	2522.6	2526.7	2514.4	2489.7	2486.9	2506.2	2510.3	2514.4	2500.7	2455.4	2371.7
25°	2541.8	2548.7	2529.5	2495.2	2500.7	2543.2	2551.5	2565.2	2554.2	2515.8	2443.0
27.5°	2675.0	2679.1	2629.7	2559.7	2543.2	2588.5	2600.9	2622.8	2614.6	2578.9	2522.6
30°	2983.8	2981.0	2875.4	2703.8	2635.2	2653.0	2662.6	2694.2	2696.9	2673.6	2620.1
32.5°	3418.9	3405.1	3241.8	2968.7	2769.7	2725.8	2736.7	2779.3	2810.8	2786.1	2713.4
35°	3878.6	3866.3	3686.5	3366.7	3018.1	2865.7	2853.4	2886.3	2934.4	2865.7	2761.4
37.5°	4316.5	4297.3	4113.3	3718.1	3324.2	3111.4	3093.6	3060.6	3031.8	2900.1	2820.5
40°	4802.3	4780.4	4619.8	4172.4	3661.8	3299.5	3254.2	3123.8	3097.7	3014.0	2974.2
42.5°	5321.1	5321.1	5188.0	4747.4	4069.4	3568.5	3509.4	3313.2	3340.6	3285.7	3239.1
45°	5839.9	5855.0	5749.3	5326.6	4614.3	4076.3	3981.6	3703.0	3768.8	3744.1	3720.8
47.5°	6281.9	6310.7	6290.1	5918.2	5281.3	4693.9	4549.8	4260.2	4401.6	4460.6	4526.5
50°	6758.1	6789.7	6769.1	6622.2	6062.3	5441.9	5312.9	5013.7	5256.6	5433.7	5649.1
52.5°	7464.9	7510.2	7338.7	7282.4	7010.7	6291.5	6176.2	5835.8	6276.4	6570.1	7050.5
55°	8062.0	8060.6	8000.2	8129.2	8029.0	7330.4	7202.8	6894.0	7456.7	7768.3	8471.0
57.5°	8339.2	8372.2	8579.4	8944.5	9144.9	8600.0	8477.8	8162.2	8723.5	8885.5	9644.5
60°	8482.0	8523.1	8923.9	9645.8	10185.2	9986.2	9938.2	9536.0	9851.7	9832.5	10634.0
62.5°	8281.6	8363.9	9007.6	9967.0	10927.7	11379.3	11364.2	10756.2	10811.1	10623.0	11247.5
65°	7362.0	7451.2	8461.4	9806.4	11351.8	12438.8	12443.0	11861.0	11548.1	11007.3	11144.6
67.5°	5264.9	5392.5	6641.5	8774.3	11202.2	13011.2	13059.2	12362.0	11721.0	10667.0	10063.1
70°	2869.9	2963.2	3941.8	6377.9	9854.4	12873.9	12963.1	12120.4	10957.9	9227.2	7746.3
72.5°	1303.9	1334.1	1833.6	3499.8	6732.0	11081.4	11454.8	10816.6	8999.4	6815.8	4925.8
75°	597.0	610.8	798.8	1674.4	3517.7	7415.5	7677.7	8056.5	6262.7	4304.1	2567.9
77.5°	374.7	378.8	454.3	765.8	1754.0	3701.6	3977.5	4796.8	3667.3	2130.1	1073.3
80°	221.0	225.1	282.7	414.5	823.5	1693.6	1955.8	1896.8	1723.8	919.6	488.6
82.5°	111.2	115.3	163.3	236.1	448.8	673.9	793.3	797.4	642.3	498.2	275.9
85°	39.8	41.2	53.5	93.3	190.8	222.3	248.4	303.3	314.3	289.6	133.1
87.5°	0.0	0.0	1.4	2.7	5.5	22.0	23.3	43.9	92.0	102.9	53.5
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°	1881.7	1881.7	1881.7	1881.7	1881.7	1881.7	1881.7	1881.7	1881.7	1881.7	1881.7
2.5°	1887.2	1866.6	1859.7	1852.9	1841.9	1837.8	1829.5	1821.3	1821.3	1813.1	1808.9
5°	1896.8	1869.3	1851.5	1843.2	1836.4	1840.5	1840.5	1843.2	1852.9	1847.4	1850.1
7.5°	1931.1	1899.5	1874.8	1868.0	1868.0	1884.4	1895.4	1909.1	1927.0	1929.7	1929.7
10°	1991.5	1954.4	1928.3	1924.2	1931.1	1954.4	1970.9	1987.4	2009.3	2010.7	2013.4
12.5°	2057.4	2020.3	1994.2	1999.7	2006.6	2036.8	2054.6	2068.3	2090.3	2090.3	2088.9
15°	2126.0	2084.8	2062.8	2073.8	2094.4	2128.7	2131.5	2132.8	2143.8	2141.1	2139.7
17.5°	2197.3	2153.4	2137.0	2153.4	2175.4	2191.9	2178.1	2158.9	2154.8	2149.3	2146.6
20°	2267.3	2222.1	2215.2	2227.5	2234.4	2220.7	2178.1	2142.4	2126.0	2117.7	2115.0
22.5°	2327.7	2289.3	2285.2	2285.2	2250.9	2202.8	2139.7	2091.7	2069.7	2058.7	2056.0
25°	2399.1	2363.4	2356.6	2319.5	2231.7	2143.8	2058.7	2014.8	1997.0	1991.5	1992.8
27.5°	2482.8	2458.1	2436.2	2330.5	2176.8	2039.5	1943.4	1924.2	1917.4	1924.2	1928.3
30°	2585.8	2561.1	2511.6	2316.8	2088.9	1903.6	1811.7	1810.3	1830.9	1848.7	1851.5
32.5°	2669.5	2658.5	2577.5	2272.8	1965.4	1754.0	1675.8	1681.3	1718.4	1743.1	1747.2
35°	2735.4	2753.2	2632.4	2200.1	1818.5	1612.7	1550.9	1553.7	1574.2	1608.6	1609.9
37.5°	2828.7	2889.1	2681.8	2088.9	1649.7	1490.5	1434.2	1413.7	1410.9	1420.5	1423.3
40°	3016.7	3107.3	2717.5	1927.0	1486.4	1380.7	1317.6	1277.8	1243.5	1217.4	1209.2
42.5°	3300.8	3405.1	2738.1	1730.7	1340.9	1272.3	1200.9	1150.1	1089.8	1034.9	1015.6
45°	3822.4	3856.7	2738.1	1522.1	1211.9	1170.7	1099.4	1039.0	962.1	897.6	883.9
47.5°	4656.8	4547.0	2740.9	1320.3	1098.0	1081.5	1019.8	951.1	866.0	812.5	804.3
50°	5914.0	5528.4	2797.1	1152.9	1003.3	1006.0	960.7	885.3	808.4	768.6	761.7
52.5°	7338.7	6737.5	2948.1	1029.4	923.7	944.3	919.6	846.8	778.2	743.9	737.0
55°	8678.2	7849.2	3077.1	941.5	856.4	892.1	890.7	823.5	761.7	727.4	723.3
57.5°	9817.4	8611.0	3057.9	870.2	798.8	844.1	864.7	808.4	750.7	721.9	717.8
60°	10525.6	9014.5	2784.8	804.3	754.9	809.8	849.6	804.3	756.2	749.4	750.7
62.5°	10833.0	8940.4	2260.5	754.9	726.0	793.3	866.0	833.1	807.0	823.5	833.1
65°	10355.4	8303.5	1663.5	717.8	698.6	797.4	904.5	878.4	807.0	818.0	822.1
67.5°	9029.6	7068.3	1202.3	680.8	664.3	809.8	959.4	871.5	760.4	760.4	752.1
70°	6507.0	5083.7	872.9	643.7	630.0	791.9	962.1	824.9	706.8	702.7	682.1
72.5°	3915.7	2998.9	680.8	602.5	577.8	702.7	901.7	770.0	654.7	620.4	595.7
75°	2034.0	1502.9	571.0	557.2	495.5	595.7	824.9	684.9	560.0	529.8	516.1
77.5°	871.5	702.7	490.0	496.8	411.7	501.0	665.7	592.9	496.8	458.4	446.1
80°	429.6	399.4	387.0	398.0	329.4	387.0	573.7	518.8	421.4	377.4	359.6
82.5°	245.7	233.3	278.6	282.7	234.7	323.9	484.5	439.2	348.6	300.6	271.8
85°	113.9	122.2	168.8	170.2	145.5	222.3	317.0	247.0	185.3	153.7	146.9
87.5°	45.3	53.5	74.1	72.7	42.5	41.2	27.4	15.1	12.4	11.0	9.6
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)