

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: P633274

Luminaire Tested: GWS-SA2E-735-U-T3-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633274  
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-SA2E-735-U-T3-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14400.9 lumens  
Efficiency: N/A  
Efficacy: 133.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 108.2  
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

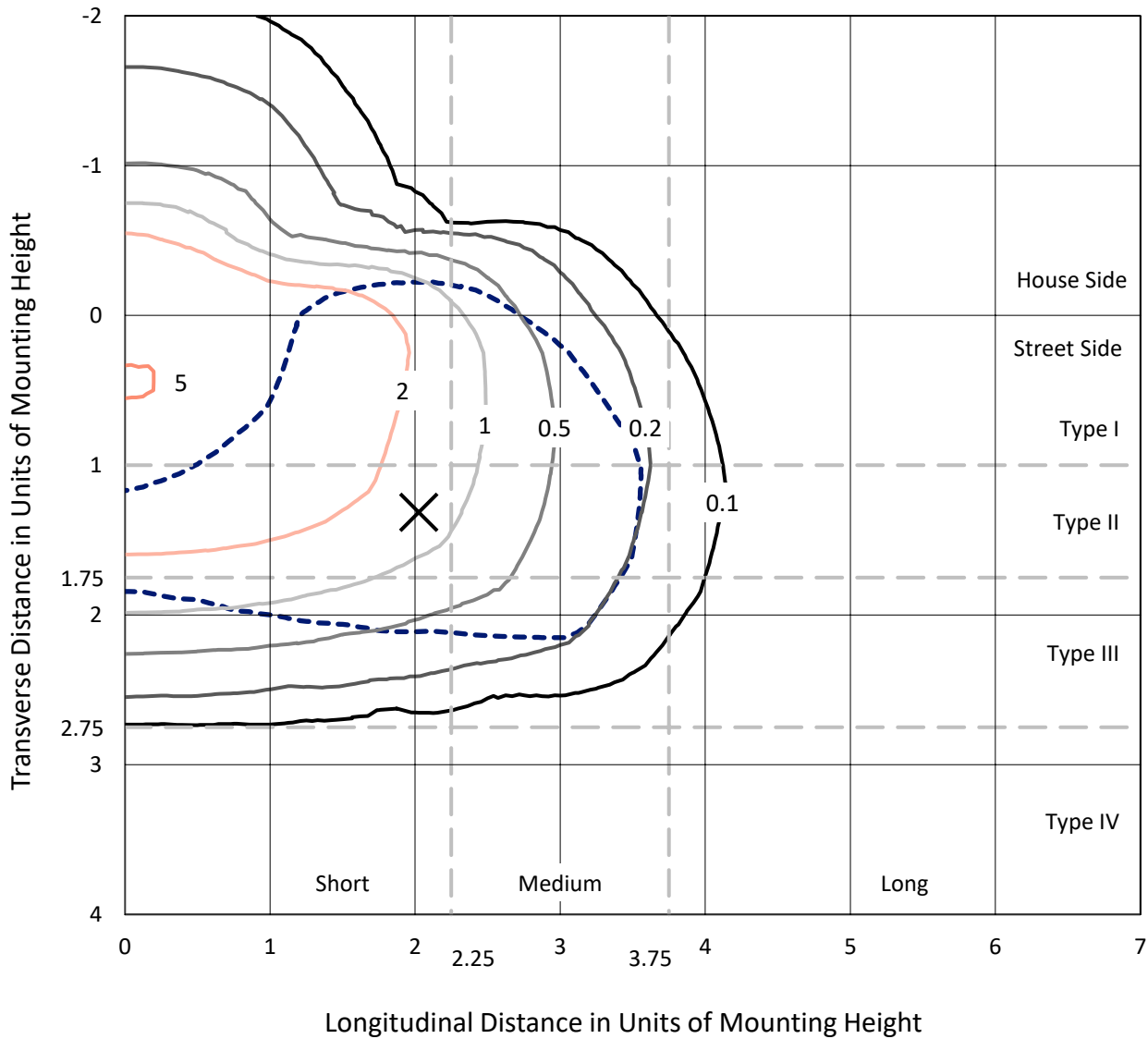


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### Iso-Footcandle Lines of Horizontal Illumination

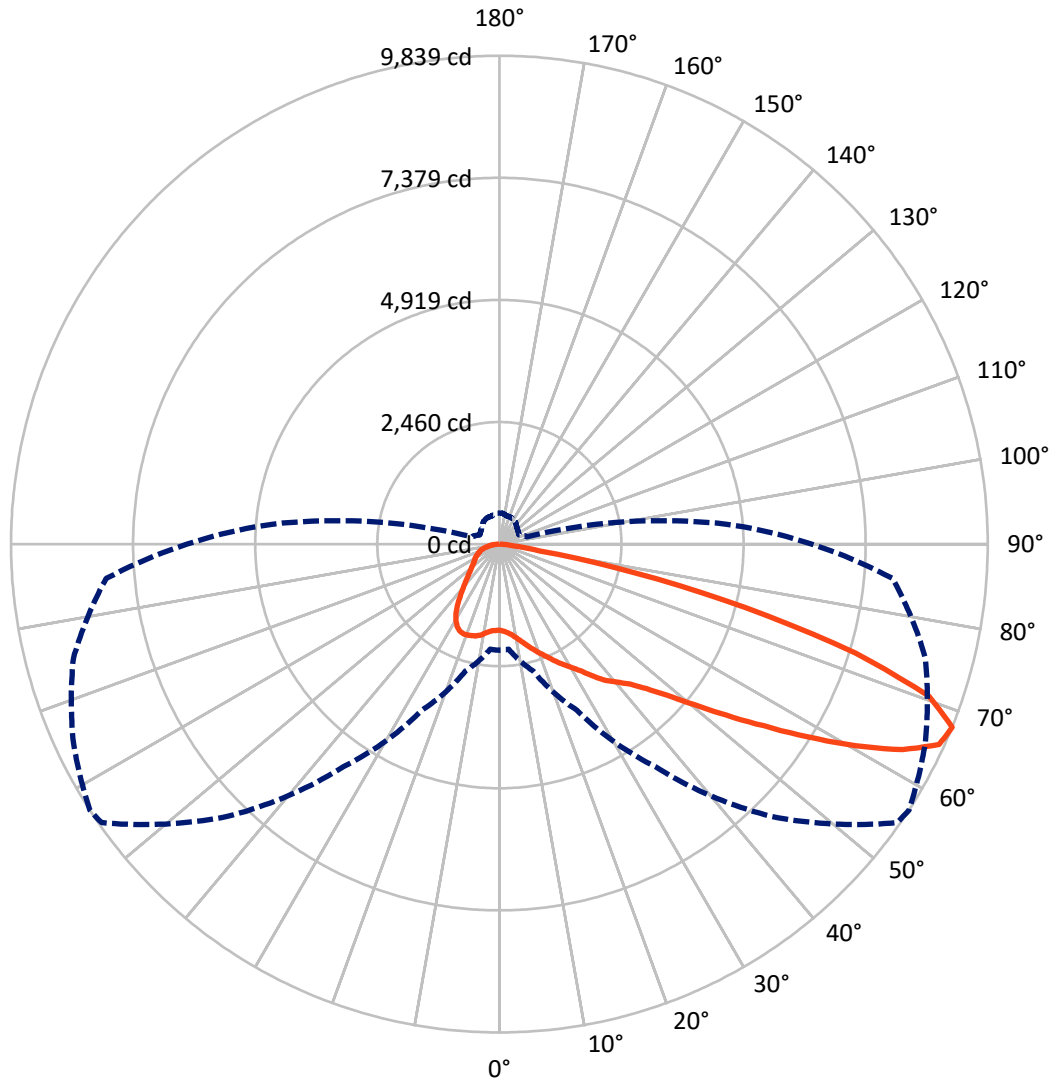
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 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	3166.2	0.0	3166.2
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	11234.7	0.0	11234.7
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	14400.9	0.0	14400.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.1	1.2
10°-20°	569.7	4.0
20°-30°	1015.7	7.1
30°-40°	1476.7	10.3
40°-50°	2137.3	14.8
50°-60°	3344.8	23.2
60°-70°	3902.0	27.1
70°-80°	1628.8	11.3
80°-90°	153.7	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°	14400.9	100.0
0°-180°	14400.9	100.0

**Coefficient of Utilization**



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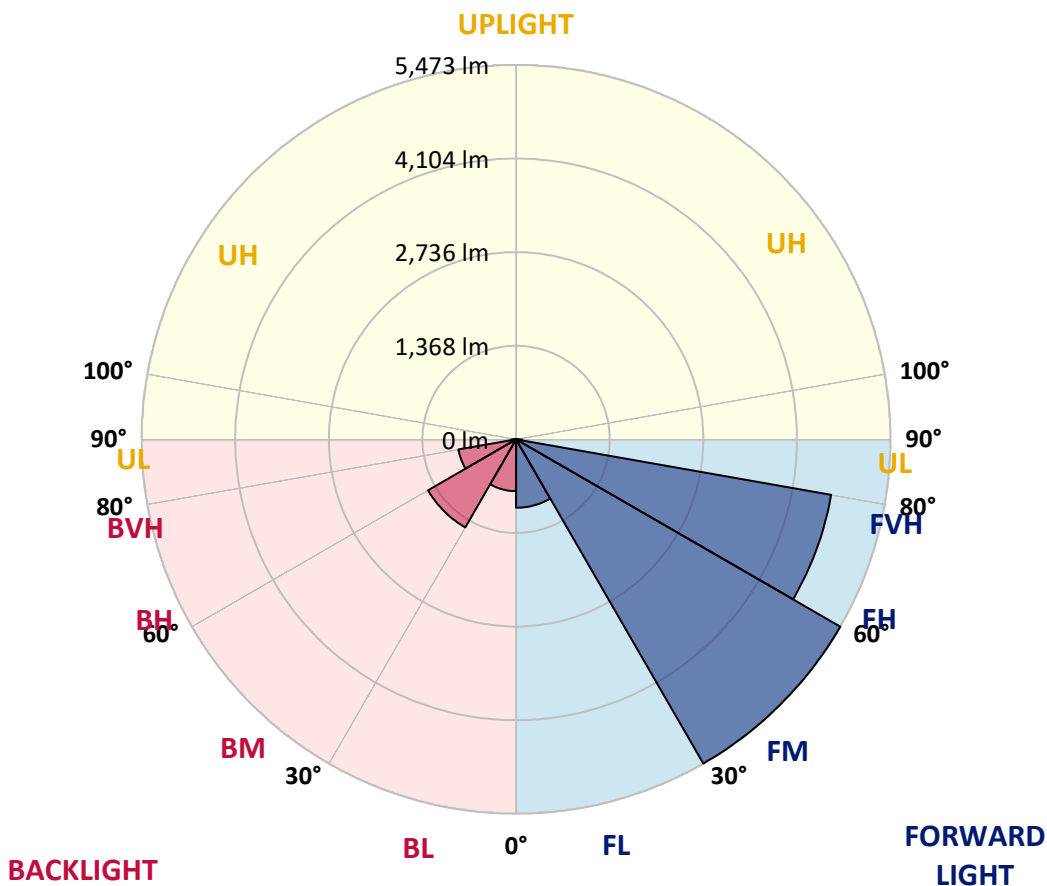
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1000.3	6.9			
FM (30°-60°)	5472.5	38.0			
FH (60°-80°)	4676.2	32.5			G2/5000
FVH (80°-90°)	85.6	0.6			G1/100
BL (0°-30°)	757.3	5.3	B2/1000		
BM (30°-60°)	1486.3	10.3	B2/2500		
BH (60°-80°)	854.6	5.9	B2/1000		G2/1000
BVH (80°-90°)	68.1	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1735.2	1735.2	1735.2	1735.2	1735.2	1735.2	1735.2	1735.2	1735.2	1735.2	1735.2
2.5°	1760.0	1757.9	1756.9	1763.1	1761.0	1760.0	1760.0	1758.9	1756.9	1748.6	1737.3
5°	1808.5	1804.3	1800.2	1805.4	1801.2	1797.1	1796.1	1794.0	1786.8	1774.4	1756.9
7.5°	1859.0	1854.9	1855.9	1859.0	1855.9	1853.8	1850.8	1848.7	1837.3	1817.7	1794.0
10°	1930.2	1930.2	1932.3	1935.3	1936.4	1933.3	1927.1	1924.0	1910.6	1885.8	1852.8
12.5°	2033.4	2031.3	2031.3	2029.2	2032.3	2029.2	2023.0	2017.9	2001.4	1969.4	1921.9
15°	2169.5	2161.3	2154.1	2140.6	2136.5	2125.2	2127.2	2124.1	2108.7	2065.3	2005.5
17.5°	2315.0	2314.0	2302.6	2275.8	2249.0	2230.4	2234.5	2233.5	2225.2	2166.4	2090.1
20°	2442.9	2448.1	2437.8	2417.1	2381.0	2345.9	2343.9	2349.0	2338.7	2279.9	2173.7
22.5°	2586.3	2582.2	2571.9	2545.0	2518.2	2481.1	2468.7	2464.6	2460.4	2393.4	2259.3
25°	2722.5	2734.9	2721.5	2696.7	2655.4	2615.2	2604.9	2609.0	2597.7	2508.9	2351.1
27.5°	2894.8	2899.9	2891.7	2857.6	2822.6	2765.8	2746.2	2746.2	2742.1	2617.3	2423.3
30°	3078.4	3092.8	3078.4	3050.5	3014.4	2932.9	2890.6	2886.5	2874.1	2728.7	2507.9
32.5°	3263.1	3273.4	3263.1	3236.2	3195.0	3123.8	3062.9	3053.6	3037.1	2850.4	2594.6
35°	3427.1	3436.4	3434.3	3440.5	3406.5	3316.7	3279.6	3275.4	3232.1	3009.3	2712.2
37.5°	3606.6	3617.9	3602.5	3614.8	3601.4	3516.8	3505.5	3484.9	3423.0	3158.9	2836.0
40°	3810.9	3821.2	3796.4	3801.6	3786.1	3738.6	3680.9	3653.0	3561.2	3320.8	3030.9
42.5°	4029.6	4053.3	4064.6	4055.4	4019.3	3992.4	3891.3	3856.3	3779.9	3612.8	3351.8
45°	4346.3	4381.4	4397.9	4374.1	4358.7	4320.5	4196.7	4154.4	4114.2	4024.4	3799.5
47.5°	4687.8	4719.7	4772.3	4782.7	4795.0	4766.2	4591.8	4550.5	4557.8	4547.4	4350.4
50°	4960.1	4986.9	5105.6	5232.5	5337.7	5345.9	5123.1	5078.7	5117.9	5151.0	5013.7
52.5°	5158.2	5181.9	5338.7	5600.7	5839.1	6015.5	5775.1	5724.5	5756.5	5830.8	5767.9
55°	5319.1	5352.1	5516.2	5918.5	6400.3	6678.8	6525.1	6461.1	6447.7	6539.5	6575.6
57.5°	5403.7	5414.0	5644.1	6167.1	6811.9	7329.8	7396.8	7324.6	7196.7	7247.2	7435.0
60°	5210.8	5228.3	5543.0	6231.1	7136.9	7975.6	8311.9	8252.0	7979.7	8007.6	8214.9
62.5°	4677.4	4702.2	5080.8	5926.7	7163.7	8406.8	9156.8	9118.6	8753.4	8602.8	8664.7
65°	3752.1	3760.3	4152.3	5173.7	6630.3	8460.4	9745.9	9736.6	9294.0	8941.2	8676.1
67.5°	2139.6	2125.2	2649.2	3690.2	5471.8	7763.1	9784.0	9838.7	9469.4	8885.5	7953.9
70°	927.4	929.5	1170.9	1820.8	3541.6	6274.4	9087.7	9181.6	8961.8	7958.0	6328.1
72.5°	429.2	435.4	539.5	788.2	1512.4	3892.4	7410.2	7494.8	7306.0	6369.3	4604.2
75°	303.3	308.5	360.0	451.9	695.3	1516.5	4957.0	5134.4	5226.3	4764.1	3034.0
77.5°	230.1	237.3	263.1	313.6	429.2	537.5	2371.7	2794.7	3329.1	2963.9	1562.9
80°	146.5	146.5	174.3	209.4	262.0	279.6	685.0	811.9	1629.0	1221.5	613.8
82.5°	99.0	102.1	118.6	133.1	150.6	158.9	294.0	313.6	470.4	415.7	252.8
85°	52.6	54.7	61.9	60.9	72.2	62.9	123.8	122.8	172.3	188.8	95.9
87.5°	0.0	0.0	1.0	1.0	2.1	3.1	13.4	14.4	36.1	57.8	32.0
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°	1735.2	1735.2	1735.2	1735.2	1735.2	1735.2	1735.2	1735.2	1735.2	1735.2	1735.2
2.5°	1743.5	1731.1	1737.3	1735.2	1741.4	1741.4	1730.1	1727.0	1728.0	1715.6	1711.5
5°	1758.9	1744.5	1747.6	1743.5	1749.7	1754.8	1749.7	1749.7	1755.8	1746.6	1741.4
7.5°	1794.0	1777.5	1777.5	1772.3	1779.6	1783.7	1779.6	1785.8	1797.1	1787.8	1782.7
10°	1849.7	1830.1	1831.2	1825.0	1828.1	1826.0	1809.5	1804.3	1807.4	1799.2	1795.0
12.5°	1921.9	1895.1	1895.1	1882.7	1875.5	1853.8	1819.8	1807.4	1809.5	1802.3	1799.2
15°	1991.1	1966.3	1961.1	1936.4	1903.4	1863.1	1832.2	1823.9	1826.0	1818.8	1813.6
17.5°	2072.6	2040.6	2022.0	1976.6	1915.7	1874.5	1843.5	1823.9	1807.4	1790.9	1786.8
20°	2147.9	2107.6	2073.6	2003.4	1929.2	1872.4	1814.6	1766.2	1725.9	1704.3	1699.1
22.5°	2225.2	2173.7	2113.8	2022.0	1928.1	1835.3	1729.0	1655.8	1595.9	1564.0	1570.1
25°	2298.5	2233.5	2152.0	2039.5	1895.1	1752.7	1608.3	1499.0	1430.9	1406.1	1398.9
27.5°	2359.3	2278.9	2187.1	2031.3	1827.0	1634.1	1443.3	1321.5	1255.5	1227.6	1220.4
30°	2427.4	2336.7	2237.6	1993.1	1719.7	1468.0	1256.5	1157.5	1110.0	1083.2	1084.2
32.5°	2505.8	2410.9	2308.8	1919.9	1582.5	1288.5	1102.8	1034.7	996.6	969.7	965.6
35°	2611.1	2517.2	2356.3	1809.5	1408.2	1123.5	997.6	941.9	894.4	859.4	852.1
37.5°	2741.1	2677.1	2361.4	1662.0	1221.5	1010.0	922.3	862.4	804.7	758.3	753.1
40°	2963.9	2890.6	2319.1	1477.3	1062.6	936.7	859.4	790.2	723.2	671.6	664.4
42.5°	3281.6	3131.0	2228.3	1268.9	942.9	879.0	799.5	711.8	643.7	607.6	602.5
45°	3686.0	3399.2	2092.2	1072.9	854.2	822.2	736.6	644.8	608.7	582.9	577.7
47.5°	4181.2	3711.8	1935.3	920.2	785.1	770.6	672.6	622.1	590.1	568.4	563.3
50°	4773.4	4110.0	1806.4	800.5	723.2	710.8	652.0	608.7	582.9	565.3	561.2
52.5°	5449.1	4552.6	1743.5	714.9	669.5	657.2	644.8	605.6	583.9	570.5	565.3
55°	6150.6	5018.9	1684.7	648.9	624.1	631.4	645.8	615.9	599.4	581.8	576.7
57.5°	6828.4	5456.3	1540.2	597.3	591.1	619.0	651.0	626.2	606.6	589.1	582.9
60°	7295.7	5695.7	1295.7	556.1	566.4	603.5	637.6	610.7	586.0	578.7	575.7
62.5°	7421.6	5666.8	1005.8	513.8	536.5	569.5	602.5	584.9	559.1	570.5	571.5
65°	7127.6	5357.3	755.2	472.5	497.2	525.1	566.4	559.1	549.9	580.8	581.8
67.5°	6295.0	4597.0	575.7	436.4	457.0	491.1	555.0	584.9	587.0	626.2	622.1
70°	4763.1	3434.3	450.8	402.3	426.1	491.1	591.1	604.5	579.8	615.9	607.6
72.5°	3293.0	2266.5	383.8	372.4	387.9	468.4	590.1	590.1	563.3	563.3	547.8
75°	2045.7	1332.9	334.2	334.2	334.2	409.6	573.6	543.7	496.2	474.6	462.2
77.5°	1010.0	647.9	280.6	290.9	279.6	342.5	468.4	444.6	415.7	393.1	384.8
80°	431.2	323.9	227.0	238.3	224.9	257.9	371.4	366.2	338.4	308.5	299.2
82.5°	198.1	167.1	181.6	186.7	164.0	193.9	271.3	271.3	255.8	214.6	199.1
85°	84.6	88.7	125.9	125.9	103.2	109.4	145.5	138.2	123.8	101.1	92.8
87.5°	28.9	43.3	64.0	55.7	21.7	9.3	5.2	2.1	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)