

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: P632838

Luminaire Tested: GWS-SA2D-740-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632838  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2D-740-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

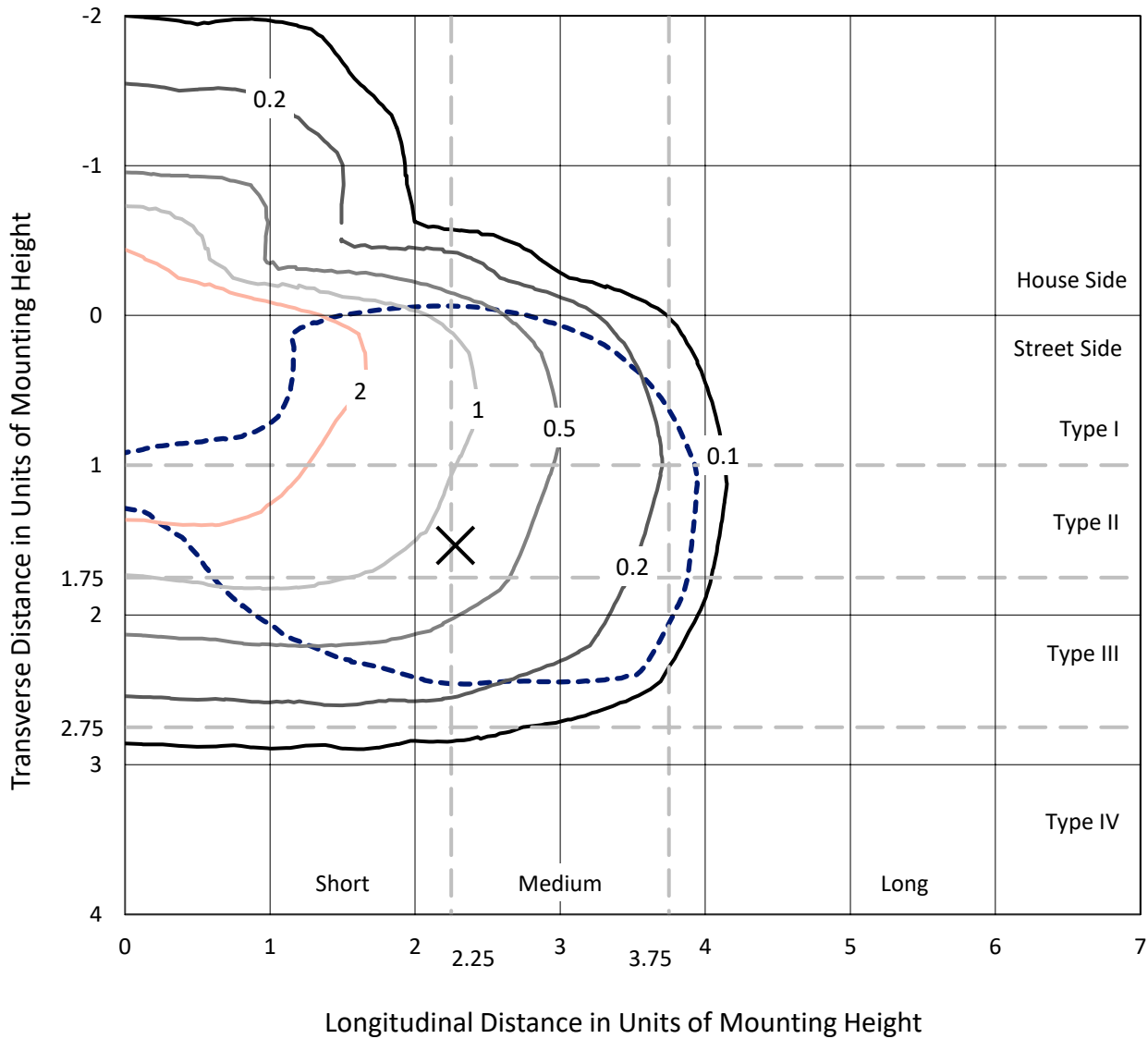
Lumens per Lamp: N/A  
Luminaire Lumens: 11869.9 lumens  
Efficiency: N/A  
Efficacy: 144.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): 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

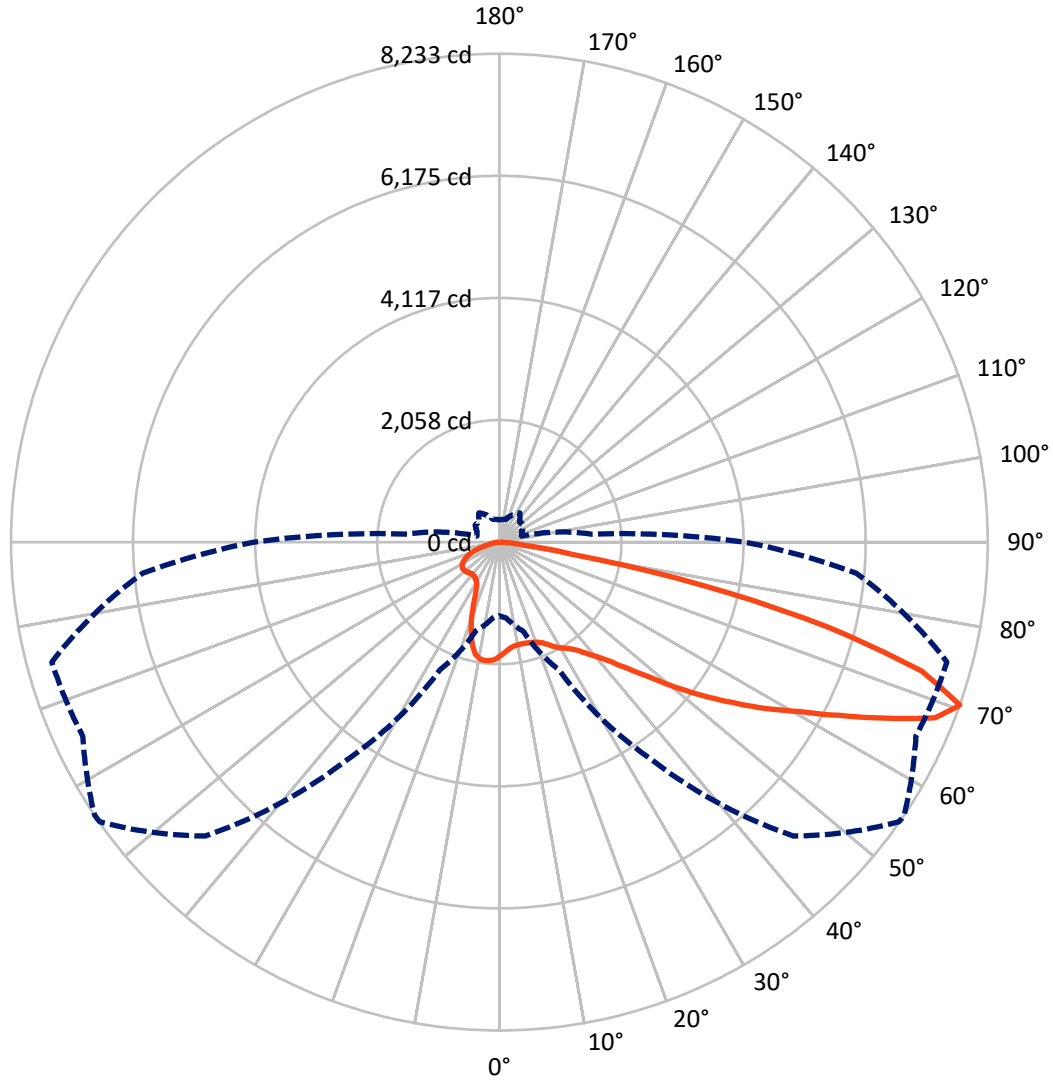
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2282.0	0.0	2282.0
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	9587.9	0.0	9587.9
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	11869.9	0.0	11869.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.3	1.5
10°-20°	480.4	4.0
20°-30°	794.2	6.7
30°-40°	1187.5	10.0
40°-50°	1767.2	14.9
50°-60°	2512.4	21.2
60°-70°	3111.7	26.2
70°-80°	1718.2	14.5
80°-90°	121.0	1.0
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°	11869.9	100.0
0°-180°	11869.9	100.0

**Coefficient of Utilization**



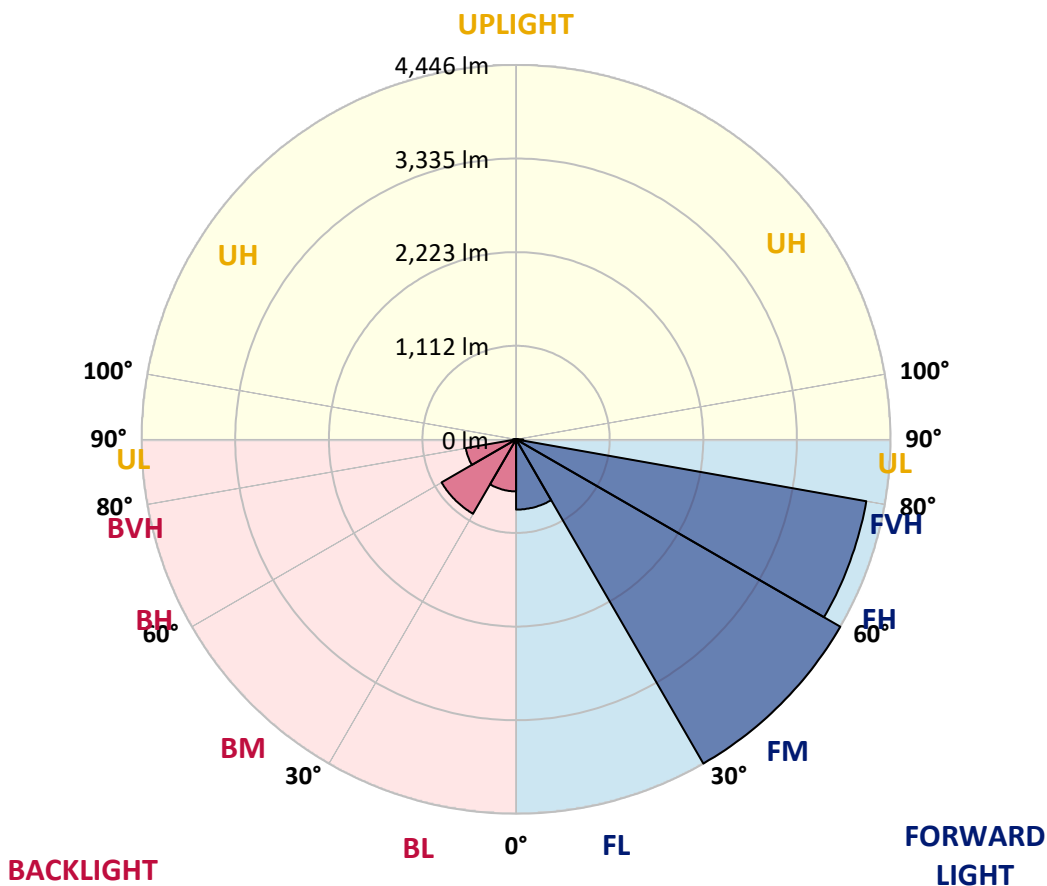
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	834.2	7.0			
FM (30°-60°)	4446.3	37.5			
FH (60°-80°)	4223.3	35.6			G2/5000
FVH (80°-90°)	84.1	0.7			G1/100
BL (0°-30°)	617.8	5.2	B2/1000		
BM (30°-60°)	1020.8	8.6	B2/2500		
BH (60°-80°)	606.5	5.1	B2/1000		G2/1000
BVH (80°-90°)	36.9	0.3			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1916.0	1916.0	1916.0	1916.0	1916.0	1916.0	1916.0	1916.0	1916.0	1916.0	1916.0
2.5°	1792.9	1782.9	1794.6	1800.5	1815.5	1837.3	1856.6	1857.4	1867.4	1891.7	1915.1
5°	1711.7	1706.7	1710.1	1727.7	1743.6	1771.2	1800.5	1803.0	1831.4	1879.2	1926.0
7.5°	1649.0	1642.3	1654.8	1677.4	1697.5	1728.5	1767.0	1770.3	1810.5	1882.5	1954.5
10°	1558.6	1553.5	1577.0	1607.1	1650.6	1701.7	1752.8	1756.9	1809.7	1904.3	2004.7
12.5°	1519.2	1519.2	1529.3	1557.7	1605.4	1673.2	1750.3	1756.9	1823.1	1937.7	2069.2
15°	1580.3	1584.5	1576.1	1574.5	1593.7	1658.2	1753.6	1763.6	1848.2	1972.1	2132.8
17.5°	1703.4	1707.6	1685.8	1651.5	1632.2	1672.4	1766.2	1777.0	1875.0	2009.7	2201.4
20°	1875.8	1880.8	1833.1	1780.4	1714.3	1713.4	1790.4	1800.5	1909.3	2050.7	2274.2
22.5°	2077.5	2080.9	2020.6	1936.9	1835.6	1789.6	1832.3	1842.3	1953.7	2107.7	2352.9
25°	2311.1	2321.1	2248.3	2126.9	1989.6	1894.2	1901.8	1913.5	2033.2	2183.8	2445.8
27.5°	2560.5	2573.1	2489.4	2355.4	2166.3	2009.7	1991.3	2001.4	2117.7	2230.7	2495.2
30°	2815.8	2825.0	2741.3	2588.1	2356.3	2140.3	2066.7	2072.5	2154.5	2253.3	2545.4
32.5°	3099.6	3092.0	3011.7	2835.1	2575.6	2296.8	2137.0	2135.3	2195.6	2298.5	2617.4
35°	3365.7	3376.6	3291.2	3096.2	2816.6	2490.2	2242.4	2235.7	2282.6	2372.2	2718.7
37.5°	3688.0	3684.6	3582.5	3371.6	3058.5	2675.2	2390.6	2378.9	2395.6	2486.8	2860.2
40°	3918.2	3941.6	3875.5	3678.8	3341.5	2902.9	2563.9	2537.9	2542.1	2628.3	3049.3
42.5°	4106.5	4128.3	4135.0	4009.4	3665.4	3184.1	2779.8	2753.9	2756.4	2878.6	3282.0
45°	4251.3	4280.6	4375.2	4338.4	4030.3	3508.9	3071.9	3045.2	3046.8	3182.4	3563.3
47.5°	4310.8	4342.6	4534.2	4622.1	4417.9	3897.3	3435.2	3395.9	3401.7	3551.6	3884.7
50°	4291.5	4334.2	4593.7	4840.6	4742.7	4292.3	3869.6	3842.0	3819.4	4037.0	4233.7
52.5°	4125.8	4172.6	4587.8	4979.6	5008.0	4665.7	4318.3	4302.4	4297.4	4552.7	4623.8
55°	3637.8	3716.5	4386.1	5016.4	5215.6	5017.2	4804.6	4777.8	4803.8	5105.1	5018.1
57.5°	3367.4	3426.0	3991.0	4975.4	5385.5	5352.0	5290.1	5292.6	5321.9	5705.3	5496.0
60°	3213.4	3282.0	3771.7	4863.2	5548.7	5758.8	5798.2	5798.2	5850.9	6352.3	5981.5
62.5°	3009.2	3078.6	3566.6	4647.2	5699.4	6237.6	6436.8	6434.3	6455.3	7046.2	6456.1
65°	2594.8	2659.3	3154.8	4306.6	5773.1	6765.0	7162.6	7155.0	7113.2	7663.9	6770.0
67.5°	1884.2	1945.3	2416.5	3658.7	5507.7	7190.2	7910.0	7913.4	7663.1	8053.2	6786.7
70°	1242.2	1284.0	1553.5	2376.4	4479.0	7006.9	8223.1	8233.1	7747.6	7810.4	6040.1
72.5°	775.1	804.4	970.1	1417.1	2646.7	5546.2	7419.5	7447.1	6970.0	6863.7	4962.8
75°	514.8	534.9	645.4	826.2	1224.6	3001.6	5640.0	5728.7	5586.4	5380.5	3457.8
77.5°	309.7	326.4	411.0	524.8	542.4	1172.7	3292.1	3521.4	3541.5	2809.1	1448.1
80°	141.5	160.7	226.8	299.7	288.8	408.5	1161.0	1214.5	1433.0	892.3	457.0
82.5°	83.7	92.1	150.7	149.0	123.0	198.4	417.7	428.6	364.1	326.4	195.0
85°	33.5	39.3	63.6	56.1	45.2	64.5	157.4	164.9	158.2	142.3	72.0
87.5°	0.0	0.0	0.0	0.0	0.8	1.7	14.2	15.1	21.8	39.3	21.8
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°	1916.0	1916.0	1916.0	1916.0	1916.0	1916.0	1916.0	1916.0	1916.0	1916.0	1916.0
2.5°	1930.2	1925.2	1950.3	1969.6	1977.9	1986.3	1978.8	1976.3	1976.3	1959.5	1951.1
5°	1951.1	1953.7	1988.0	2003.9	2003.9	1997.2	1977.1	1962.9	1957.8	1936.1	1930.2
7.5°	1990.5	2001.4	2033.2	2032.3	2008.9	1972.1	1921.8	1883.3	1848.2	1833.1	1823.9
10°	2054.9	2069.2	2090.9	2055.8	1990.5	1893.4	1787.1	1703.4	1653.2	1613.0	1613.0
12.5°	2128.6	2142.0	2137.8	2056.6	1921.8	1740.2	1587.0	1490.8	1420.5	1383.6	1383.6
15°	2202.3	2213.1	2167.9	2018.1	1778.7	1536.8	1369.4	1253.9	1192.8	1158.5	1158.5
17.5°	2276.7	2275.9	2180.5	1929.4	1592.0	1311.6	1147.6	1058.0	1037.1	1031.2	1030.4
20°	2348.7	2329.5	2164.6	1781.2	1375.3	1084.8	981.0	986.9	1017.8	1031.2	1032.9
22.5°	2429.9	2382.2	2117.7	1592.0	1129.2	927.4	934.1	982.7	1027.9	1048.0	1050.5
25°	2512.8	2427.4	2039.0	1370.2	923.3	869.7	921.6	976.0	1027.0	1053.0	1055.5
27.5°	2546.3	2427.4	1905.1	1113.3	813.6	845.4	902.3	955.1	1008.6	1038.8	1044.6
30°	2573.9	2406.5	1717.6	881.4	768.4	822.0	871.4	919.9	972.6	1009.5	1016.2
32.5°	2612.4	2388.1	1490.8	740.8	747.5	799.4	833.7	874.7	922.4	946.7	944.2
35°	2657.6	2359.6	1217.1	673.8	729.9	780.1	804.4	828.7	806.9	806.1	808.6
37.5°	2722.1	2334.5	978.5	643.7	718.2	766.7	786.8	734.9	704.8	692.2	687.2
40°	2815.0	2324.5	771.8	626.1	716.5	765.9	751.7	671.3	630.3	586.8	585.9
42.5°	2932.2	2316.9	637.8	617.7	722.4	785.1	703.1	629.5	544.9	525.7	524.0
45°	3082.8	2305.2	570.9	616.1	736.6	800.2	698.1	571.7	513.9	505.6	505.6
47.5°	3264.5	2286.8	540.7	616.1	752.5	793.5	683.0	559.1	499.7	508.9	514.8
50°	3472.9	2263.4	524.8	614.4	768.4	793.5	651.2	556.6	496.4	544.1	563.3
52.5°	3695.5	2236.6	513.9	607.7	779.3	794.4	652.9	565.0	499.7	552.4	568.4
55°	3941.6	2232.4	498.9	593.5	782.6	772.6	657.1	583.4	504.7	500.5	501.4
57.5°	4252.2	2282.6	488.0	572.5	769.2	728.2	665.4	596.8	498.9	499.7	505.6
60°	4576.9	2377.2	497.2	552.4	741.6	686.4	671.3	590.1	470.4	457.0	458.7
62.5°	4853.2	2449.2	504.7	543.2	701.4	649.5	665.4	575.0	454.5	451.2	458.7
65°	4968.7	2389.7	486.3	524.0	642.8	604.3	652.9	555.8	441.1	428.6	429.4
67.5°	4840.6	2111.0	450.3	481.3	576.7	546.6	632.8	530.7	422.7	407.6	404.3
70°	4135.0	1551.0	388.4	413.5	496.4	478.8	601.8	498.0	393.4	382.5	375.0
72.5°	3332.3	1098.2	322.3	329.0	389.2	403.5	548.3	457.0	359.9	329.0	318.1
75°	2319.4	689.7	268.7	262.0	281.2	308.0	427.7	379.2	310.5	277.9	267.9
77.5°	997.8	354.1	210.1	206.7	187.5	213.4	328.1	316.4	260.3	222.7	216.8
80°	334.0	205.1	151.5	145.6	124.7	149.8	231.0	252.8	204.2	164.9	154.9
82.5°	167.4	118.9	96.3	87.1	83.7	94.6	136.4	157.4	141.5	113.8	96.3
85°	82.0	67.8	52.7	51.9	43.5	41.0	56.9	67.0	63.6	46.9	44.4
87.5°	30.1	26.8	16.7	13.4	8.4	5.9	3.3	3.3	2.5	2.5	2.5
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)