

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: P639489

Luminaire Tested: GWS-SA5B-830-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639489
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-SA5B-830-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14114.6 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 115.7
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

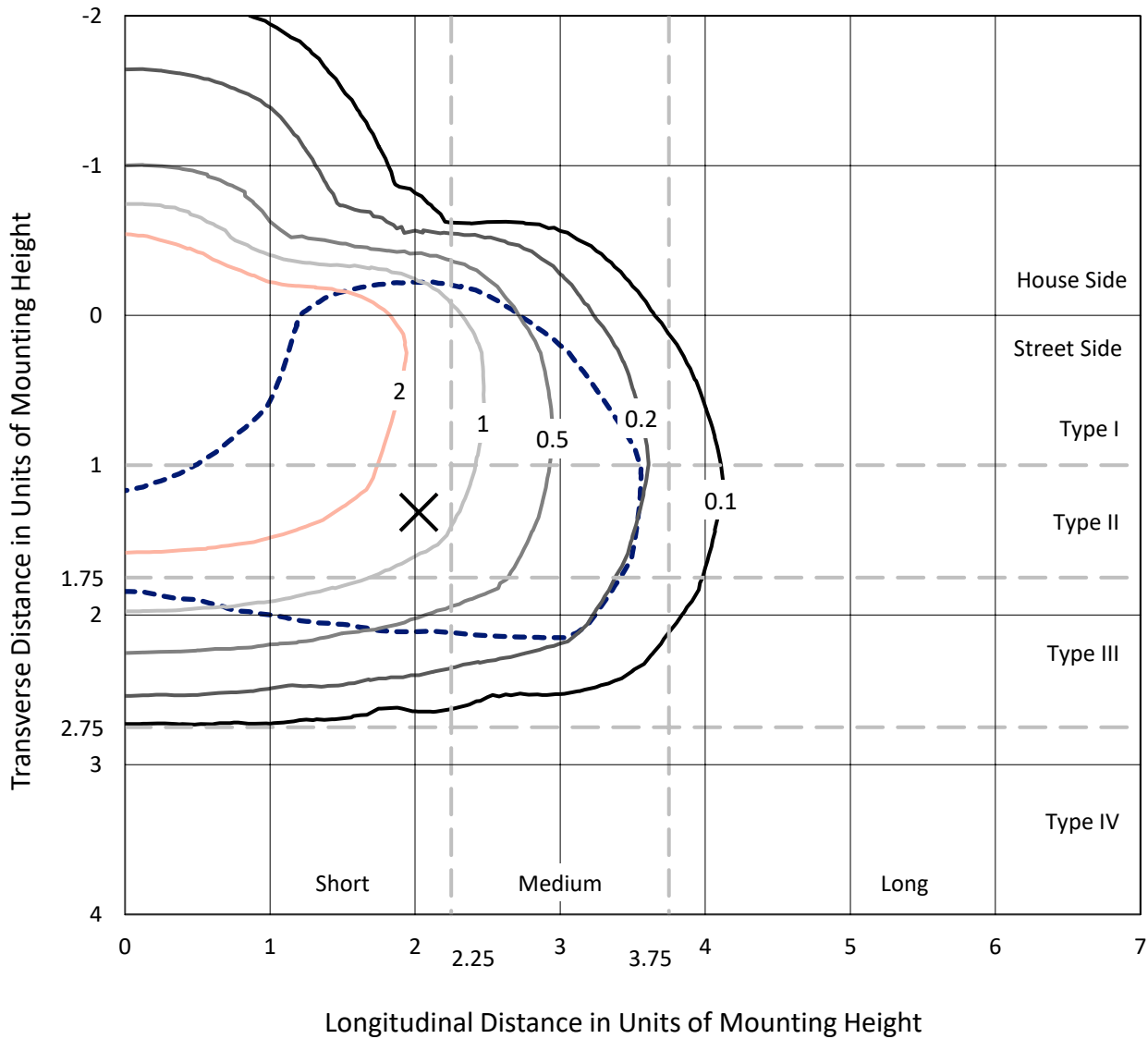


REPORT NUMBER: P639489

CATALOG NUMBER: GWS-SA5B-830-U-T3-W

Iso-Footcandle Lines of Horizontal Illumination

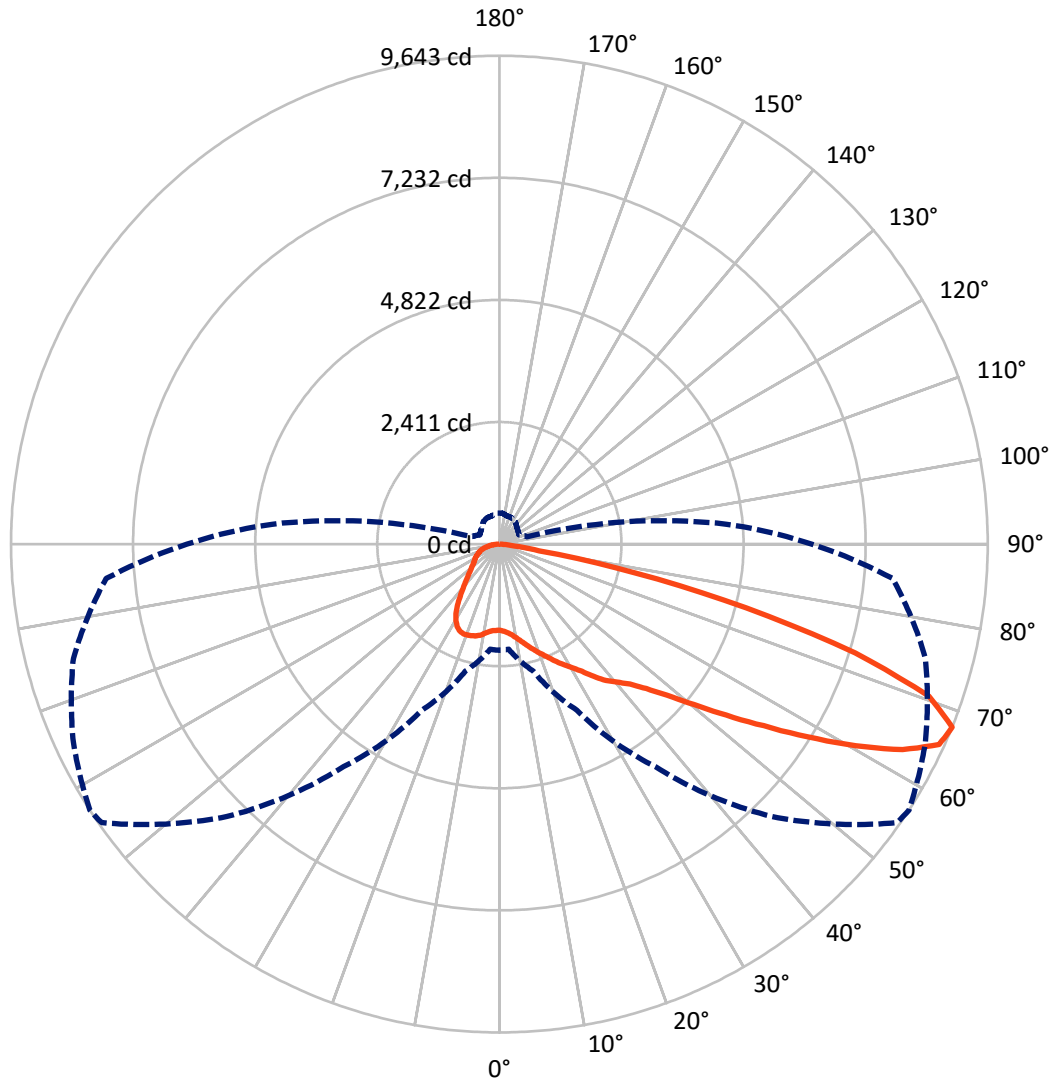
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P639489
CATALOG NUMBER: GWS-SA5B-830-U-T3-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P639489

CATALOG NUMBER: GWS-SA5B-830-U-T3-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3103.3	0.0	3103.3
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	11011.3	0.0	11011.3
	% Fixture	78.0	0.0	78.0
Total	Lumens	14114.6	0.0	14114.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.7	1.2
10°-20°	558.4	4.0
20°-30°	995.5	7.1
30°-40°	1447.4	10.3
40°-50°	2094.8	14.8
50°-60°	3278.3	23.2
60°-70°	3824.4	27.1
70°-80°	1596.5	11.3
80°-90°	150.7	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°	14114.6	100.0
0°-180°	14114.6	100.0

Coefficient of Utilization



REPORT NUMBER: P639489

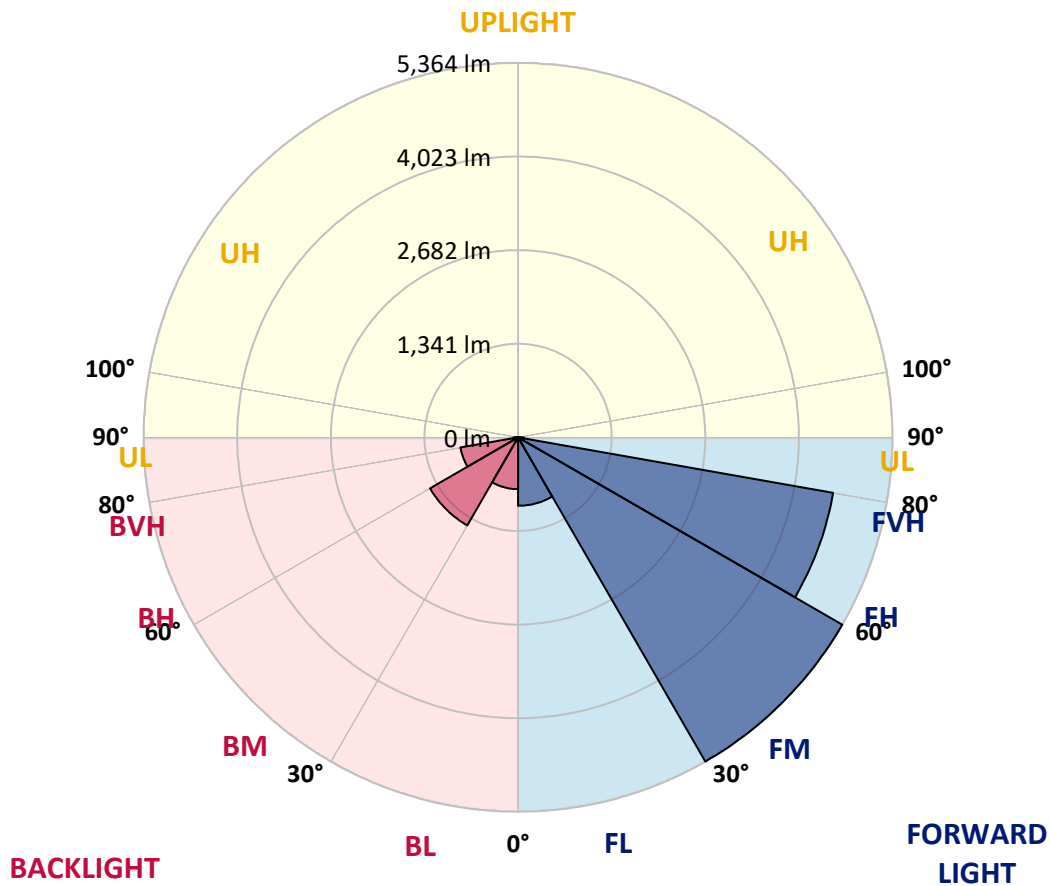
CATALOG NUMBER: GWS-SA5B-830-U-T3-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	980.4	6.9			
FM (30°-60°)	5363.8	38.0			
FH (60°-80°)	4583.3	32.5			G2/5000
FVH (80°-90°)	83.9	0.6			G1/100
BL (0°-30°)	742.2	5.3	B2/1000		
BM (30°-60°)	1456.8	10.3	B2/2500		
BH (60°-80°)	837.6	5.9	B2/1000		G2/1000
BVH (80°-90°)	66.7	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





REPORT NUMBER: P639489

CATALOG NUMBER: GWS-SA5B-830-U-T3-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1700.7	1700.7	1700.7	1700.7	1700.7	1700.7	1700.7	1700.7	1700.7	1700.7	1700.7
2.5°	1725.0	1723.0	1721.9	1728.0	1726.0	1725.0	1725.0	1724.0	1721.9	1713.9	1702.7
5°	1772.5	1768.5	1764.4	1769.5	1765.4	1761.4	1760.4	1758.3	1751.3	1739.1	1721.9
7.5°	1822.0	1818.0	1819.0	1822.0	1819.0	1817.0	1814.0	1811.9	1800.8	1781.6	1758.3
10°	1891.8	1891.8	1893.8	1896.9	1897.9	1894.8	1888.8	1885.7	1872.6	1848.3	1816.0
12.5°	1992.9	1990.9	1990.9	1988.9	1991.9	1988.9	1982.8	1977.8	1961.6	1930.2	1883.7
15°	2126.4	2118.3	2111.2	2098.1	2094.0	2082.9	2084.9	2081.9	2066.7	2024.3	1965.6
17.5°	2269.0	2268.0	2256.8	2230.5	2204.3	2186.1	2190.1	2189.1	2181.0	2123.4	2048.5
20°	2394.3	2399.4	2389.3	2369.1	2333.7	2299.3	2297.3	2302.3	2292.2	2234.6	2130.4
22.5°	2534.9	2530.8	2520.7	2494.4	2468.2	2431.8	2419.6	2415.6	2411.5	2345.8	2214.4
25°	2668.4	2680.5	2667.3	2643.1	2602.6	2563.2	2553.1	2557.1	2546.0	2459.1	2304.4
27.5°	2837.2	2842.3	2834.2	2800.8	2766.4	2710.8	2691.6	2691.6	2687.6	2565.2	2375.1
30°	3017.2	3031.4	3017.2	2989.9	2954.5	2874.6	2833.2	2829.1	2817.0	2674.4	2458.0
32.5°	3198.2	3208.3	3198.2	3171.9	3131.5	3061.7	3002.0	2992.9	2976.8	2793.7	2543.0
35°	3359.0	3368.1	3366.0	3372.1	3338.7	3250.8	3214.4	3210.3	3167.9	2949.5	2658.2
37.5°	3534.9	3546.0	3530.9	3543.0	3529.8	3446.9	3435.8	3415.6	3354.9	3096.1	2779.6
40°	3735.1	3745.2	3720.9	3726.0	3710.8	3664.3	3607.7	3580.4	3490.4	3254.8	2970.7
42.5°	3949.5	3972.7	3983.8	3974.7	3939.3	3913.1	3814.0	3779.6	3704.8	3541.0	3285.1
45°	4259.9	4294.3	4310.4	4287.2	4272.0	4234.6	4113.3	4071.8	4032.4	3944.4	3724.0
47.5°	4594.6	4625.9	4677.5	4687.6	4699.7	4671.4	4500.5	4460.1	4467.2	4457.0	4263.9
50°	4861.5	4887.8	5004.1	5128.4	5231.6	5239.7	5021.2	4977.8	5016.2	5048.5	4914.1
52.5°	5055.6	5078.9	5232.6	5489.4	5723.0	5895.9	5660.3	5610.7	5642.1	5714.9	5653.2
55°	5213.4	5245.7	5406.5	5800.8	6273.0	6546.0	6395.4	6332.7	6319.5	6409.5	6444.9
57.5°	5296.3	5306.4	5531.9	6044.5	6676.5	7184.0	7249.8	7179.0	7053.6	7103.2	7287.2
60°	5107.2	5124.4	5432.8	6107.2	6995.0	7817.0	8146.6	8088.0	7821.1	7848.4	8051.6
62.5°	4584.4	4608.7	4979.8	5808.9	7021.3	8239.7	8974.8	8937.3	8579.4	8431.8	8492.4
65°	3677.5	3685.6	4069.8	5070.8	6498.5	8292.2	9552.1	9543.0	9109.2	8763.4	8503.6
67.5°	2097.1	2082.9	2596.6	3616.8	5363.0	7608.7	9589.5	9643.1	9281.1	8708.8	7795.8
70°	909.0	911.0	1147.6	1784.6	3471.2	6149.7	8907.0	8999.0	8783.6	7799.8	6202.2
72.5°	420.6	426.7	528.8	772.5	1482.3	3815.0	7262.9	7345.8	7160.8	6242.7	4512.7
75°	297.3	302.3	352.9	442.9	681.5	1486.4	4858.5	5032.4	5122.4	4669.4	2973.7
77.5°	225.5	232.6	257.8	307.4	420.6	526.8	2324.6	2739.1	3262.9	2905.0	1531.9
80°	143.6	143.6	170.9	205.3	256.8	274.0	671.4	795.8	1596.6	1197.2	601.6
82.5°	97.1	100.1	116.3	130.4	147.6	155.7	288.2	307.4	461.1	407.5	247.7
85°	51.6	53.6	60.7	59.7	70.8	61.7	121.3	120.3	168.9	185.0	94.0
87.5°	0.0	0.0	1.0	1.0	2.0	3.0	13.1	14.2	35.4	56.6	31.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P639489
 CATALOG NUMBER: GWS-SA5B-830-U-T3-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1700.7	1700.7	1700.7	1700.7	1700.7	1700.7	1700.7	1700.7	1700.7	1700.7	1700.7
2.5°	1708.8	1696.7	1702.7	1700.7	1706.8	1706.8	1695.7	1692.6	1693.6	1681.5	1677.5
5°	1724.0	1709.8	1712.8	1708.8	1714.9	1719.9	1714.9	1714.9	1720.9	1711.8	1706.8
7.5°	1758.3	1742.2	1742.2	1737.1	1744.2	1748.2	1744.2	1750.3	1761.4	1752.3	1747.2
10°	1812.9	1793.7	1794.7	1788.7	1791.7	1789.7	1773.5	1768.5	1771.5	1763.4	1759.4
12.5°	1883.7	1857.4	1857.4	1845.3	1838.2	1817.0	1783.6	1771.5	1773.5	1766.4	1763.4
15°	1951.5	1927.2	1922.1	1897.9	1865.5	1826.1	1795.8	1787.7	1789.7	1782.6	1777.6
17.5°	2031.4	2000.0	1981.8	1937.3	1877.7	1837.2	1806.9	1787.7	1771.5	1755.3	1751.3
20°	2105.2	2065.7	2032.4	1963.6	1890.8	1835.2	1778.6	1731.0	1691.6	1670.4	1665.3
22.5°	2181.0	2130.4	2071.8	1981.8	1889.8	1798.8	1694.6	1622.9	1564.2	1532.9	1538.9
25°	2252.8	2189.1	2109.2	1999.0	1857.4	1717.9	1576.3	1469.2	1402.4	1378.2	1371.1
27.5°	2312.4	2233.6	2143.6	1990.9	1790.7	1601.6	1414.6	1295.3	1230.5	1203.2	1196.2
30°	2379.2	2290.2	2193.1	1953.5	1685.5	1438.8	1231.6	1134.5	1088.0	1061.7	1062.7
32.5°	2456.0	2363.0	2262.9	1881.7	1551.1	1262.9	1080.9	1014.2	976.7	950.5	946.4
35°	2559.2	2467.1	2309.4	1773.5	1380.2	1101.1	977.8	923.2	876.6	842.3	835.2
37.5°	2686.6	2623.9	2314.5	1628.9	1197.2	989.9	903.9	845.3	788.7	743.2	738.1
40°	2905.0	2833.2	2273.0	1447.9	1041.5	918.1	842.3	774.5	708.8	658.2	651.2
42.5°	3216.4	3068.8	2184.0	1243.7	924.2	861.5	783.6	697.7	630.9	595.6	590.5
45°	3612.8	3331.7	2050.6	1051.6	837.2	805.9	721.9	632.0	596.6	571.3	566.2
47.5°	4098.1	3638.0	1896.9	901.9	769.5	755.3	659.3	609.7	578.4	557.1	552.1
50°	4678.5	4028.3	1770.5	784.6	708.8	696.7	639.0	596.6	571.3	554.1	550.1
52.5°	5340.8	4462.1	1708.8	700.7	656.2	644.1	632.0	593.5	572.3	559.2	554.1
55°	6028.3	4919.1	1651.2	636.0	611.7	618.8	633.0	603.6	587.5	570.3	565.2
57.5°	6692.6	5347.8	1509.6	585.4	579.4	606.7	638.0	613.8	594.5	577.4	571.3
60°	7150.7	5582.4	1270.0	545.0	555.1	591.5	624.9	598.6	574.3	567.2	564.2
62.5°	7274.0	5554.1	985.8	503.5	525.8	558.1	590.5	573.3	548.0	559.2	560.2
65°	6985.9	5250.8	740.1	463.1	487.4	514.7	555.1	548.0	538.9	569.3	570.3
67.5°	6169.9	4505.6	564.2	427.7	447.9	481.3	544.0	573.3	575.3	613.8	609.7
70°	4668.4	3366.0	441.9	394.3	417.6	481.3	579.4	592.5	568.3	603.6	595.6
72.5°	3227.5	2221.4	376.1	365.0	380.2	459.1	578.4	578.4	552.1	552.1	536.9
75°	2005.1	1306.4	327.6	327.6	327.6	401.4	562.2	532.9	486.4	465.1	453.0
77.5°	989.9	635.0	275.0	285.1	274.0	335.7	459.1	435.8	407.5	385.2	377.1
80°	422.7	317.5	222.4	233.6	220.4	252.8	364.0	358.9	331.6	302.3	293.2
82.5°	194.1	163.8	178.0	183.0	160.8	190.1	265.9	265.9	250.8	210.3	195.1
85°	82.9	87.0	123.4	123.4	101.1	107.2	142.6	135.5	121.3	99.1	91.0
87.5°	28.3	42.5	62.7	54.6	21.2	9.1	5.1	2.0	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)