

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: P632813

Luminaire Tested: GWS-SA2D-740-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632813
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-740-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11213.6 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

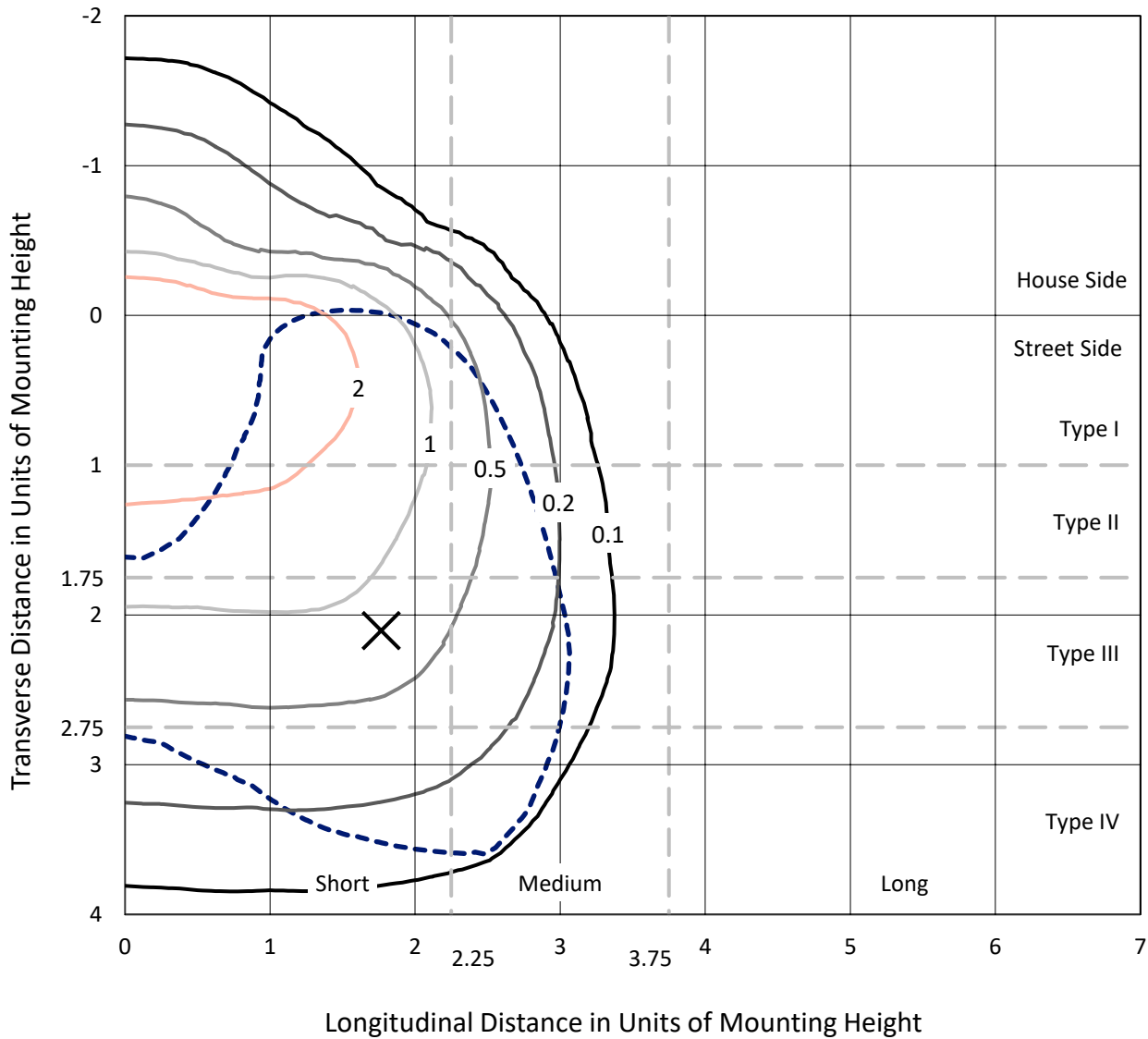
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

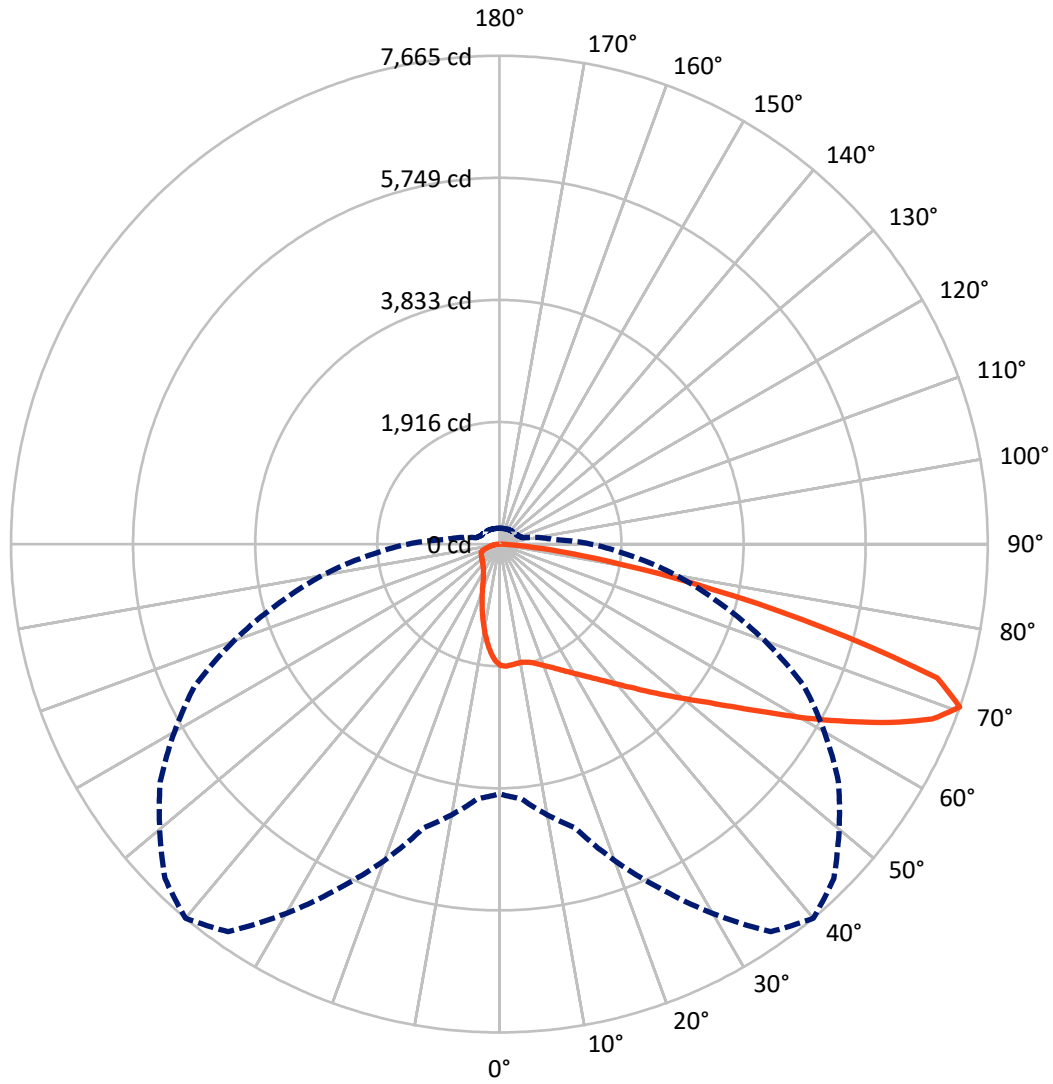
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1727.2	0.0	1727.2
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	9486.4	0.0	9486.4
	% Fixture	84.6	0.0	84.6
Total	Lumens	11213.6	0.0	11213.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.2	1.5
10°-20°	438.5	3.9
20°-30°	688.5	6.1
30°-40°	1035.2	9.2
40°-50°	1597.8	14.2
50°-60°	2372.9	21.2
60°-70°	2991.0	26.7
70°-80°	1729.7	15.4
80°-90°	192.0	1.7
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°	11213.6	100.0
0°-180°	11213.6	100.0

Coefficient of Utilization



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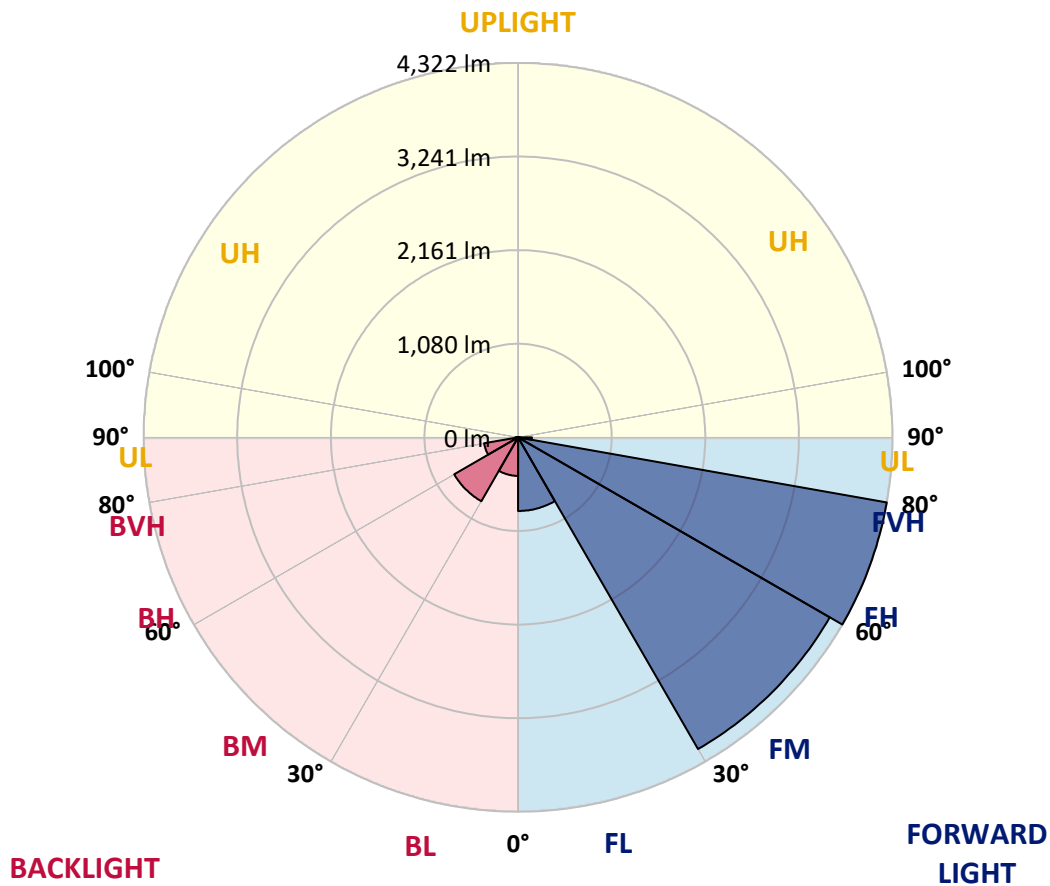
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	850.1	7.6			
FM (30°-60°)	4154.5	37.0			
FH (60°-80°)	4322.0	38.5			G2/5000
FVH (80°-90°)	159.9	1.4			G2/225
BL (0°-30°)	445.1	4.0	B1/500		
BM (30°-60°)	851.3	7.6	B1/1000		
BH (60°-80°)	398.6	3.6	B1/500		G1/500
BVH (80°-90°)	32.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1904.2	1904.2	1904.2	1904.2	1904.2	1904.2	1904.2	1904.2	1904.2	1904.2	1904.2
2.5°	1915.9	1919.3	1921.8	1925.1	1923.4	1918.4	1922.6	1922.6	1913.4	1903.4	1894.2
5°	1918.4	1922.6	1921.8	1920.9	1914.2	1905.9	1905.9	1900.8	1884.9	1869.0	1854.0
7.5°	1913.4	1912.6	1911.7	1909.2	1901.7	1892.5	1890.8	1880.8	1859.8	1838.1	1816.3
10°	1890.8	1890.0	1892.5	1898.3	1896.7	1888.3	1888.3	1879.1	1854.8	1828.0	1799.6
12.5°	1872.4	1872.4	1882.4	1898.3	1904.2	1900.8	1901.7	1895.0	1867.4	1835.6	1802.1
15°	1874.9	1875.7	1897.5	1923.4	1934.3	1931.8	1932.7	1925.1	1894.2	1862.3	1817.1
17.5°	1891.6	1895.8	1933.5	1969.5	1983.7	1980.4	1974.5	1962.0	1926.8	1890.8	1835.6
20°	1926.8	1933.5	1982.0	2027.2	2044.0	2036.4	2026.4	2001.3	1962.8	1923.4	1855.7
22.5°	1996.3	2000.5	2054.0	2098.4	2111.8	2102.6	2082.5	2046.5	2002.1	1961.1	1879.9
25°	2094.2	2099.2	2150.3	2191.3	2187.9	2177.1	2149.4	2105.1	2052.3	2008.8	1915.1
27.5°	2210.5	2218.9	2269.1	2301.8	2280.0	2264.1	2233.1	2179.6	2120.1	2080.8	1968.6
30°	2337.8	2341.1	2383.8	2416.4	2383.0	2361.2	2323.5	2265.8	2212.2	2182.9	2049.0
32.5°	2460.8	2464.2	2501.0	2519.4	2484.2	2468.3	2435.7	2374.6	2336.9	2321.0	2168.7
35°	2590.5	2589.7	2619.8	2635.7	2599.8	2593.1	2559.6	2512.7	2506.0	2526.9	2343.6
37.5°	2720.3	2712.7	2728.7	2749.6	2729.5	2736.2	2714.4	2698.5	2724.5	2778.9	2576.3
40°	2824.1	2824.1	2840.8	2866.8	2873.5	2902.8	2890.2	2911.1	2994.8	3124.6	2864.2
42.5°	2916.1	2917.0	2952.1	2992.3	3040.9	3086.1	3096.1	3150.5	3323.8	3527.2	3225.8
45°	3012.4	3013.2	3060.9	3119.5	3222.5	3308.7	3328.8	3451.0	3698.7	3946.5	3618.4
47.5°	3123.7	3114.5	3180.6	3278.6	3425.0	3548.9	3600.8	3774.1	4087.1	4391.8	3988.4
50°	3249.3	3230.0	3303.7	3472.8	3653.5	3823.5	3910.5	4108.9	4504.0	4802.8	4336.5
52.5°	3390.7	3379.8	3456.9	3662.8	3939.0	4134.8	4252.8	4513.2	4909.1	5212.1	4612.8
55°	3566.5	3540.6	3651.9	3913.9	4273.8	4523.2	4663.0	4913.2	5351.8	5583.7	4823.7
57.5°	3759.0	3730.6	3879.5	4227.7	4709.0	4982.7	5157.7	5363.6	5768.7	5868.3	4947.6
60°	3966.6	3957.4	4134.0	4596.0	5228.0	5546.0	5672.4	5859.1	6131.1	6033.2	4916.6
62.5°	4156.6	4153.2	4410.2	4995.3	5777.9	6127.8	6228.2	6277.6	6392.2	6022.3	4670.5
65°	4356.6	4385.1	4732.5	5458.1	6408.1	6751.3	6793.2	6667.6	6480.1	5736.9	4166.6
67.5°	4381.7	4437.0	4935.0	5891.7	7005.8	7329.7	7296.2	6815.8	6220.7	4942.5	3266.0
70°	3918.9	4015.1	4611.9	5957.8	7426.8	7665.3	7423.4	6496.9	5279.0	3580.7	2054.0
72.5°	3274.4	3357.2	3884.6	5080.7	6883.6	7187.4	6860.1	5499.2	3730.6	2054.0	1046.3
75°	2548.7	2645.0	3131.3	4038.6	5153.5	5274.8	5110.8	3835.2	2050.7	847.1	475.4
77.5°	1555.2	1624.6	2003.0	2736.2	3605.8	3424.2	2901.9	2150.3	899.8	405.9	293.8
80°	688.0	730.7	986.8	1469.8	2083.3	1969.5	1552.7	918.2	492.2	257.8	205.1
82.5°	369.1	396.7	486.3	581.7	914.9	956.7	775.9	529.0	264.5	147.3	117.2
85°	162.4	178.3	221.0	210.9	300.5	295.5	298.0	363.3	126.4	67.8	76.2
87.5°	0.0	0.0	0.0	0.0	0.8	0.8	9.2	48.5	12.6	20.1	17.6
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°	1904.2	1904.2	1904.2	1904.2	1904.2	1904.2	1904.2	1904.2	1904.2	1904.2	1904.2
2.5°	1884.1	1869.0	1864.9	1859.8	1850.6	1834.7	1823.0	1809.6	1803.8	1797.1	1797.9
5°	1837.2	1818.8	1801.2	1778.6	1750.2	1718.4	1696.6	1671.5	1658.1	1645.6	1648.9
7.5°	1797.1	1768.6	1732.6	1684.9	1633.8	1576.9	1530.9	1494.9	1470.6	1453.9	1462.3
10°	1772.0	1738.5	1675.7	1597.9	1511.6	1424.6	1358.5	1296.5	1258.0	1227.9	1226.2
12.5°	1766.9	1723.4	1632.2	1519.2	1394.5	1278.1	1181.0	1097.3	1046.3	1008.6	1022.8
15°	1772.0	1716.7	1594.5	1446.4	1289.0	1131.6	1011.1	914.9	853.8	819.4	816.9
17.5°	1777.8	1710.0	1551.8	1367.7	1178.5	998.6	858.8	756.7	693.9	659.6	660.4
20°	1782.8	1700.0	1501.6	1281.5	1066.4	874.7	729.9	632.8	576.7	551.6	555.8
22.5°	1791.2	1689.9	1448.0	1189.4	951.7	755.0	627.8	549.1	515.6	498.9	499.7
25°	1807.1	1684.1	1392.8	1089.0	838.7	659.6	557.4	504.7	483.8	473.7	472.9
27.5°	1839.7	1689.1	1335.0	991.9	736.6	586.7	512.3	477.9	463.7	457.0	456.2
30°	1894.2	1709.2	1284.8	893.1	648.7	529.8	481.3	460.4	452.0	446.1	445.3
32.5°	1977.0	1746.8	1230.4	801.0	577.5	488.0	457.0	446.1	440.3	436.9	436.9
35°	2102.6	1815.5	1176.8	720.7	522.3	455.3	437.8	433.6	428.5	426.9	428.5
37.5°	2283.4	1925.1	1128.3	650.4	483.0	430.2	416.8	418.5	414.3	416.8	419.3
40°	2512.7	2071.6	1087.3	592.6	453.7	411.8	398.4	404.3	401.8	404.3	408.5
42.5°	2803.1	2253.2	1056.3	547.4	432.7	396.7	384.2	390.0	388.4	391.7	395.9
45°	3127.1	2492.6	1042.1	515.6	417.7	385.9	372.5	376.7	375.0	377.5	381.7
47.5°	3437.6	2710.2	1054.6	497.2	405.1	376.7	362.4	364.1	363.3	362.4	364.9
50°	3705.4	2883.5	1090.6	491.3	396.7	367.4	354.1	354.9	352.4	347.4	349.0
52.5°	3923.9	3022.4	1112.4	491.3	392.6	357.4	344.8	345.7	340.7	334.0	334.8
55°	4067.9	3078.5	1094.8	490.5	390.9	349.0	335.6	336.5	331.5	323.1	323.9
57.5°	4108.9	3024.1	1021.2	481.3	389.2	342.3	326.4	328.1	324.8	315.6	315.6
60°	3994.2	2824.9	886.4	460.4	385.0	338.2	319.7	322.2	320.6	311.4	311.4
62.5°	3693.7	2470.9	725.7	428.5	373.3	333.1	313.9	318.9	323.1	318.1	317.2
65°	3131.3	1979.5	590.1	393.4	358.2	324.8	305.5	318.1	327.3	334.0	334.0
67.5°	2349.5	1417.1	481.3	356.6	335.6	308.0	294.6	306.3	313.0	317.2	319.7
70°	1432.1	833.7	379.2	313.9	303.0	282.9	272.9	261.1	251.9	250.3	251.1
72.5°	700.6	477.1	308.0	267.0	258.6	240.2	217.6	212.6	208.4	205.9	205.1
75°	385.9	332.3	254.5	221.8	206.7	184.1	179.1	170.8	169.1	165.7	166.6
77.5°	272.9	262.0	210.1	180.0	157.4	145.6	148.2	142.3	142.3	139.8	138.9
80°	205.1	205.9	161.5	131.4	116.3	112.2	114.7	114.7	113.0	112.2	111.3
82.5°	129.7	146.5	108.8	84.5	82.9	83.7	82.9	82.0	83.7	81.2	80.4
85°	89.6	105.5	66.1	50.2	50.2	49.4	51.1	50.2	51.9	49.4	49.4
87.5°	20.1	46.9	24.3	15.1	15.9	15.1	15.9	16.7	18.4	19.3	19.3
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)