

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: P632343

Luminaire Tested: GWS-SA2C-740-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632343
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-SA2C-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: 9408.9 lumens
Efficiency: N/A
Efficacy: 148.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

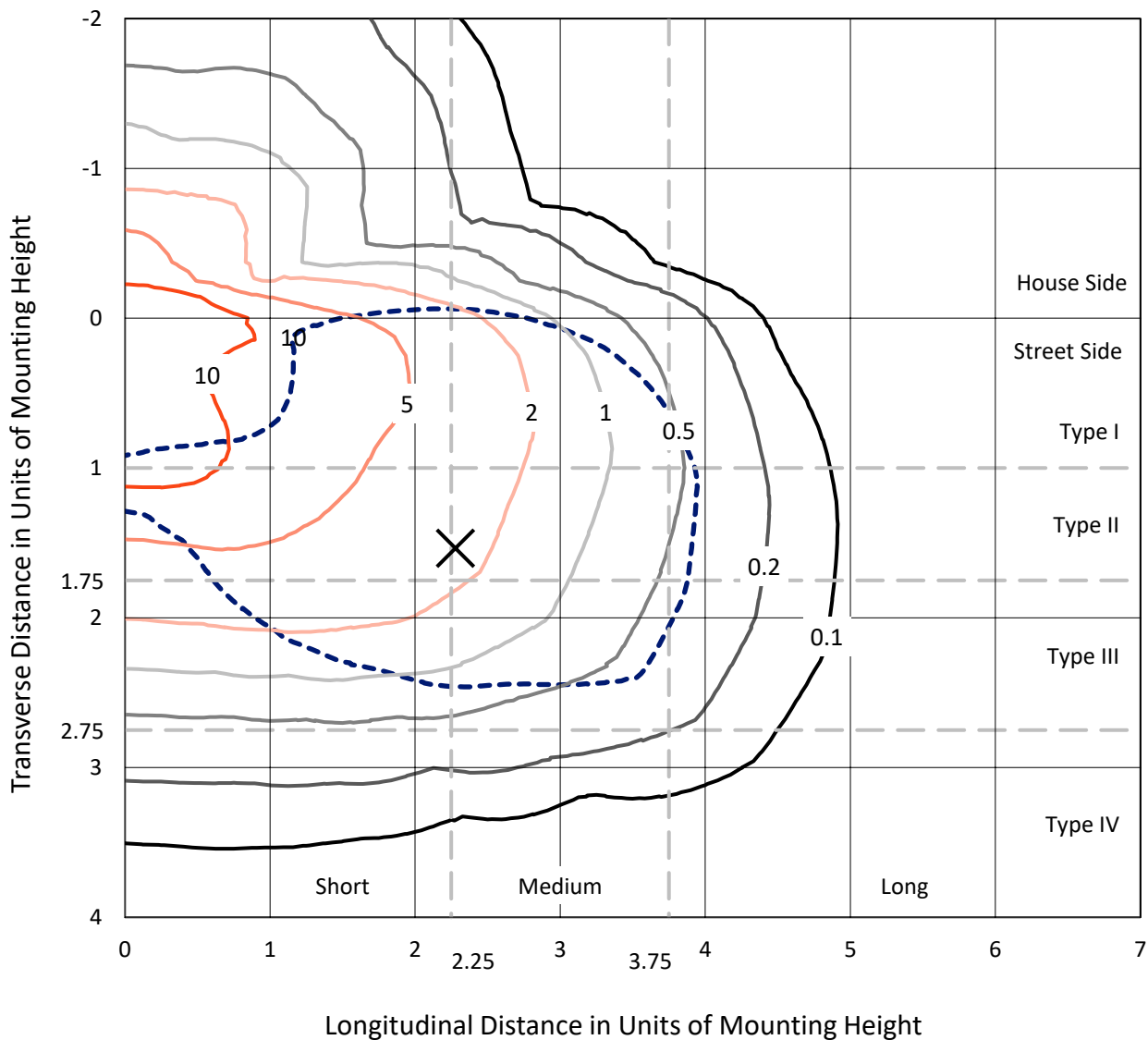
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P632343
 CATALOG NUMBER: GWS-SA2C-740-U-T3R-W

Iso-Footcandle Lines of Horizontal Illumination

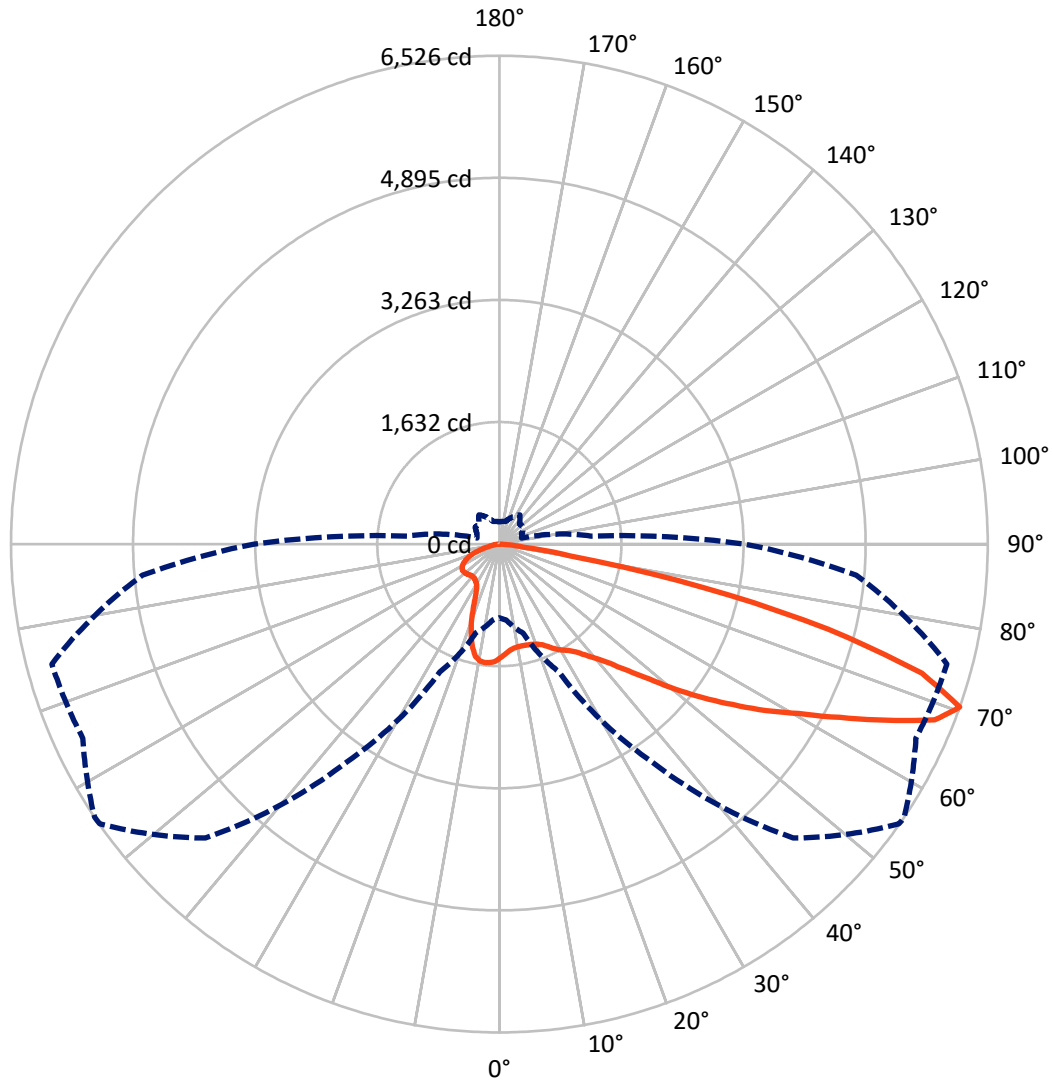
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P632343
CATALOG NUMBER: GWS-SA2C-740-U-T3R-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P632343

CATALOG NUMBER: GWS-SA2C-740-U-T3R-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1808.9	0.0	1808.9
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	7600.0	0.0	7600.0
	% Fixture	80.8	0.0	80.8
Total	Lumens	9408.9	0.0	9408.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.5	1.5
10°-20°	380.8	4.0
20°-30°	629.6	6.7
30°-40°	941.3	10.0
40°-50°	1400.8	14.9
50°-60°	1991.5	21.2
60°-70°	2466.5	26.2
70°-80°	1361.9	14.5
80°-90°	95.9	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°	9408.9	100.0
0°-180°	9408.9	100.0

Coefficient of Utilization



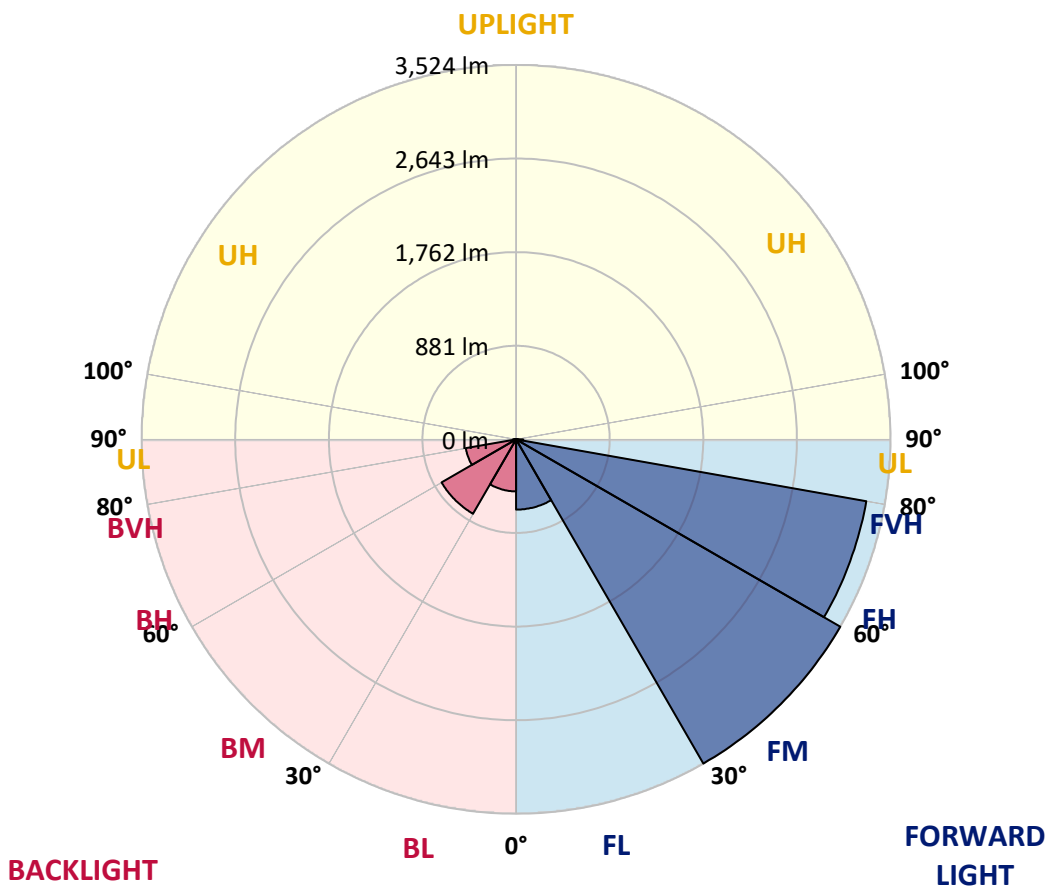
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	661.2	7.0			
FM (30°-60°)	3524.4	37.5			
FH (60°-80°)	3347.7	35.6			G2/5000
FVH (80°-90°)	66.7	0.7			G1/100
BL (0°-30°)	489.7	5.2	B1/500		
BM (30°-60°)	809.2	8.6	B1/1000		
BH (60°-80°)	480.8	5.1	B1/500		G1/500
BVH (80°-90°)	29.3	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 III Medium





REPORT NUMBER: P632343
 CATALOG NUMBER: GWS-SA2C-740-U-T3R-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7
2.5°	1421.2	1413.2	1422.5	1427.2	1439.1	1456.4	1471.6	1472.3	1480.3	1499.5	1518.1
5°	1356.8	1352.9	1355.5	1369.5	1382.1	1404.0	1427.2	1429.2	1451.7	1489.5	1526.7
7.5°	1307.1	1301.8	1311.7	1329.6	1345.6	1370.1	1400.6	1403.3	1435.1	1492.2	1549.3
10°	1235.4	1231.4	1250.0	1273.9	1308.4	1348.9	1389.4	1392.7	1434.5	1509.5	1589.1
12.5°	1204.2	1204.2	1212.2	1234.8	1272.6	1326.3	1387.4	1392.7	1445.1	1536.0	1640.2
15°	1252.7	1256.0	1249.4	1248.0	1263.3	1314.4	1390.0	1398.0	1465.0	1563.2	1690.6
17.5°	1350.2	1353.5	1336.3	1309.1	1293.8	1325.7	1400.0	1408.6	1486.2	1593.1	1745.0
20°	1486.9	1490.9	1453.1	1411.3	1358.8	1358.2	1419.2	1427.2	1513.4	1625.6	1802.7
22.5°	1646.8	1649.4	1601.7	1535.3	1455.0	1418.6	1452.4	1460.4	1548.6	1670.7	1865.1
25°	1831.9	1839.9	1782.1	1685.9	1577.1	1501.5	1507.5	1516.8	1611.6	1731.1	1938.7
27.5°	2029.6	2039.6	1973.2	1867.1	1717.1	1593.1	1578.5	1586.4	1678.6	1768.2	1977.9
30°	2232.0	2239.3	2172.9	2051.5	1867.7	1696.6	1638.2	1642.8	1707.8	1786.1	2017.7
32.5°	2456.9	2451.0	2387.3	2247.3	2041.6	1820.6	1693.9	1692.6	1740.3	1822.0	2074.8
35°	2667.9	2676.5	2608.9	2454.3	2232.7	1973.9	1777.5	1772.2	1809.4	1880.3	2155.0
37.5°	2923.4	2920.7	2839.8	2672.6	2424.4	2120.5	1894.9	1885.7	1898.9	1971.2	2267.2
40°	3105.8	3124.4	3072.0	2916.1	2648.7	2301.0	2032.3	2011.7	2015.0	2083.4	2417.1
42.5°	3255.1	3272.4	3277.7	3178.1	2905.4	2523.9	2203.5	2182.9	2184.9	2281.8	2601.6
45°	3369.9	3393.1	3468.1	3438.9	3194.7	2781.4	2435.0	2413.8	2415.1	2522.6	2824.5
47.5°	3417.0	3442.2	3594.2	3663.8	3501.9	3089.2	2723.0	2691.8	2696.4	2815.2	3079.3
50°	3401.7	3435.6	3641.3	3837.0	3759.4	3402.4	3067.3	3045.4	3027.5	3200.0	3356.0
52.5°	3270.4	3307.5	3636.6	3947.1	3969.7	3698.3	3423.0	3410.4	3406.4	3608.8	3665.1
55°	2883.6	2945.9	3476.7	3976.3	4134.2	3977.0	3808.5	3787.2	3807.8	4046.7	3977.7
57.5°	2669.2	2715.7	3163.5	3943.8	4268.9	4242.4	4193.3	4195.3	4218.5	4522.4	4356.5
60°	2547.2	2601.6	2989.7	3854.9	4398.3	4564.8	4596.0	4596.0	4637.8	5035.3	4741.3
62.5°	2385.3	2440.3	2827.2	3683.7	4517.7	4944.4	5102.3	5100.3	5116.9	5585.3	5117.5
65°	2056.8	2107.9	2500.7	3413.7	4576.1	5362.4	5677.5	5671.6	5638.4	6075.0	5366.4
67.5°	1493.5	1542.0	1915.5	2900.1	4365.8	5699.4	6270.0	6272.7	6074.3	6383.5	5379.6
70°	984.6	1017.8	1231.4	1883.7	3550.4	5554.1	6518.2	6526.1	6141.3	6191.1	4787.8
72.5°	614.4	637.6	769.0	1123.3	2098.0	4396.3	5881.2	5903.1	5524.9	5440.7	3933.9
75°	408.0	424.0	511.6	654.9	970.7	2379.3	4470.6	4541.0	4428.2	4264.9	2740.9
77.5°	245.5	258.8	325.8	416.0	429.9	929.6	2609.5	2791.3	2807.2	2226.7	1147.8
80°	112.1	127.4	179.8	237.5	228.9	323.8	920.3	962.7	1135.9	707.3	362.3
82.5°	66.3	73.0	119.4	118.1	97.5	157.2	331.1	339.7	288.6	258.8	154.6
85°	26.5	31.2	50.4	44.5	35.8	51.1	124.7	130.7	125.4	112.8	57.1
87.5°	0.0	0.0	0.0	0.0	0.7	1.3	11.3	11.9	17.3	31.2	17.3
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: P632343
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7
2.5°	1530.0	1526.0	1545.9	1561.2	1567.8	1574.5	1568.5	1566.5	1566.5	1553.2	1546.6
5°	1546.6	1548.6	1575.8	1588.4	1588.4	1583.1	1567.2	1555.9	1551.9	1534.7	1530.0
7.5°	1577.8	1586.4	1611.6	1611.0	1592.4	1563.2	1523.4	1492.9	1465.0	1453.1	1445.8
10°	1628.9	1640.2	1657.4	1629.5	1577.8	1500.8	1416.6	1350.2	1310.4	1278.6	1278.6
12.5°	1687.3	1697.9	1694.6	1630.2	1523.4	1379.4	1258.0	1181.7	1126.0	1096.8	1096.8
15°	1745.7	1754.3	1718.5	1599.7	1409.9	1218.2	1085.5	993.9	945.5	918.3	918.3
17.5°	1804.7	1804.0	1728.4	1529.4	1262.0	1039.7	909.7	838.7	822.1	817.4	816.8
20°	1861.8	1846.5	1715.8	1411.9	1090.1	859.9	777.6	782.3	806.8	817.4	818.8
22.5°	1926.1	1888.3	1678.6	1262.0	895.1	735.2	740.5	778.9	814.8	830.7	832.7
25°	1991.8	1924.1	1616.3	1086.1	731.8	689.4	730.5	773.6	814.1	834.7	836.7
27.5°	2018.4	1924.1	1510.1	882.4	644.9	670.1	715.2	757.0	799.5	823.4	828.0
30°	2040.2	1907.5	1361.5	698.7	609.1	651.6	690.7	729.2	771.0	800.2	805.5
32.5°	2070.8	1893.0	1181.7	587.2	592.5	633.6	660.8	693.4	731.2	750.4	748.4
35°	2106.6	1870.4	964.7	534.1	578.6	618.4	637.6	656.9	639.6	638.9	640.9
37.5°	2157.7	1850.5	775.6	510.2	569.3	607.8	623.7	582.5	558.7	548.7	544.7
40°	2231.3	1842.5	611.7	496.3	568.0	607.1	595.8	532.1	499.6	465.1	464.4
42.5°	2324.2	1836.6	505.6	489.7	572.6	622.4	557.3	498.9	431.9	416.7	415.3
45°	2443.7	1827.3	452.5	488.3	583.9	634.3	553.4	453.2	407.4	400.8	400.8
47.5°	2587.6	1812.7	428.6	488.3	596.5	629.0	541.4	443.2	396.1	403.4	408.0
50°	2752.8	1794.1	416.0	487.0	609.1	629.0	516.2	441.2	393.5	431.3	446.5
52.5°	2929.3	1772.9	407.4	481.7	617.7	629.7	517.5	447.9	396.1	437.9	450.5
55°	3124.4	1769.5	395.4	470.4	620.4	612.4	520.8	462.5	400.1	396.8	397.4
57.5°	3370.6	1809.4	386.8	453.8	609.8	577.2	527.5	473.1	395.4	396.1	400.8
60°	3628.0	1884.3	394.1	437.9	587.9	544.1	532.1	467.8	372.9	362.3	363.6
62.5°	3846.9	1941.4	400.1	430.6	556.0	514.9	527.5	455.8	360.3	357.6	363.6
65°	3938.5	1894.3	385.5	415.3	509.6	479.0	517.5	440.6	349.7	339.7	340.4
67.5°	3837.0	1673.3	357.0	381.5	457.1	433.3	501.6	420.7	335.1	323.1	320.5
70°	3277.7	1229.5	307.9	327.8	393.5	379.5	477.1	394.8	311.8	303.2	297.2
72.5°	2641.4	870.5	255.4	260.8	308.5	319.8	434.6	362.3	285.3	260.8	252.1
75°	1838.5	546.7	213.0	207.7	222.9	244.2	339.0	300.6	246.2	220.3	212.3
77.5°	790.9	280.7	166.5	163.9	148.6	169.2	260.1	250.8	206.3	176.5	171.8
80°	264.7	162.6	120.1	115.4	98.9	118.8	183.1	200.4	161.9	130.7	122.7
82.5°	132.7	94.2	76.3	69.0	66.3	75.0	108.1	124.7	112.1	90.2	76.3
85°	65.0	53.7	41.8	41.1	34.5	32.5	45.1	53.1	50.4	37.2	35.2
87.5°	23.9	21.2	13.3	10.6	6.6	4.6	2.7	2.7	2.0	2.0	2.0
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)