

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: P632439

Luminaire Tested: GWS-SA2C-760-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632439  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2C-760-U-T2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

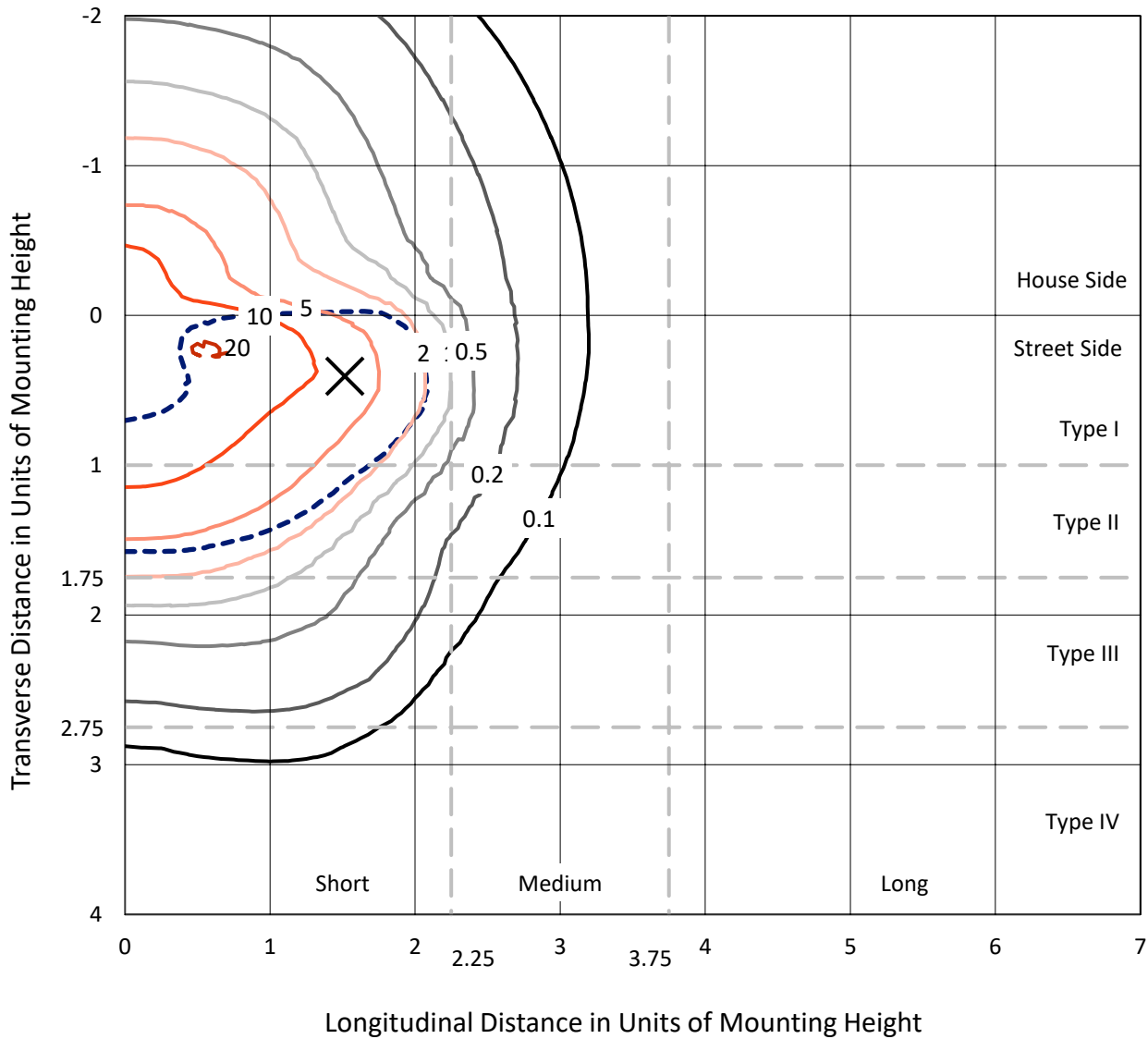
Lumens per Lamp: N/A  
Luminaire Lumens: 7785 lumens  
Efficiency: N/A  
Efficacy: 123.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

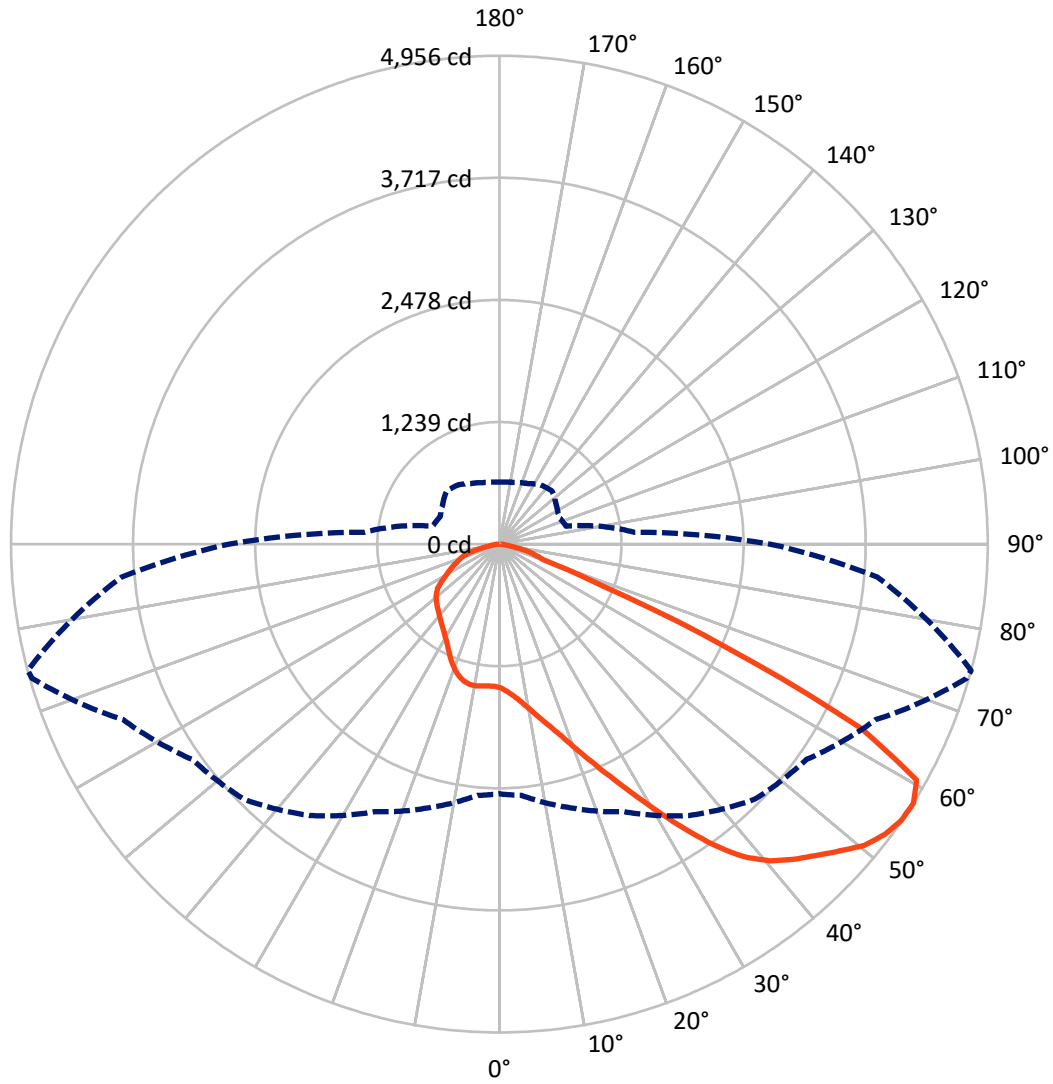
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2106.0	0.0	2106.0
	% Fixture	27.1	0.0	27.1
<b>Street Side</b>	Lumens	5679.0	0.0	5679.0
	% Fixture	72.9	0.0	72.9
<b>Total</b>	Lumens	7785.0	0.0	7785.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.9	1.9
10°-20°	464.5	6.0
20°-30°	823.8	10.6
30°-40°	1261.1	16.2
40°-50°	1755.9	22.6
50°-60°	2012.0	25.8
60°-70°	1033.8	13.3
70°-80°	260.3	3.3
80°-90°	27.8	0.4
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°	7785.0	100.0
0°-180°	7785.0	100.0

**Coefficient of Utilization**



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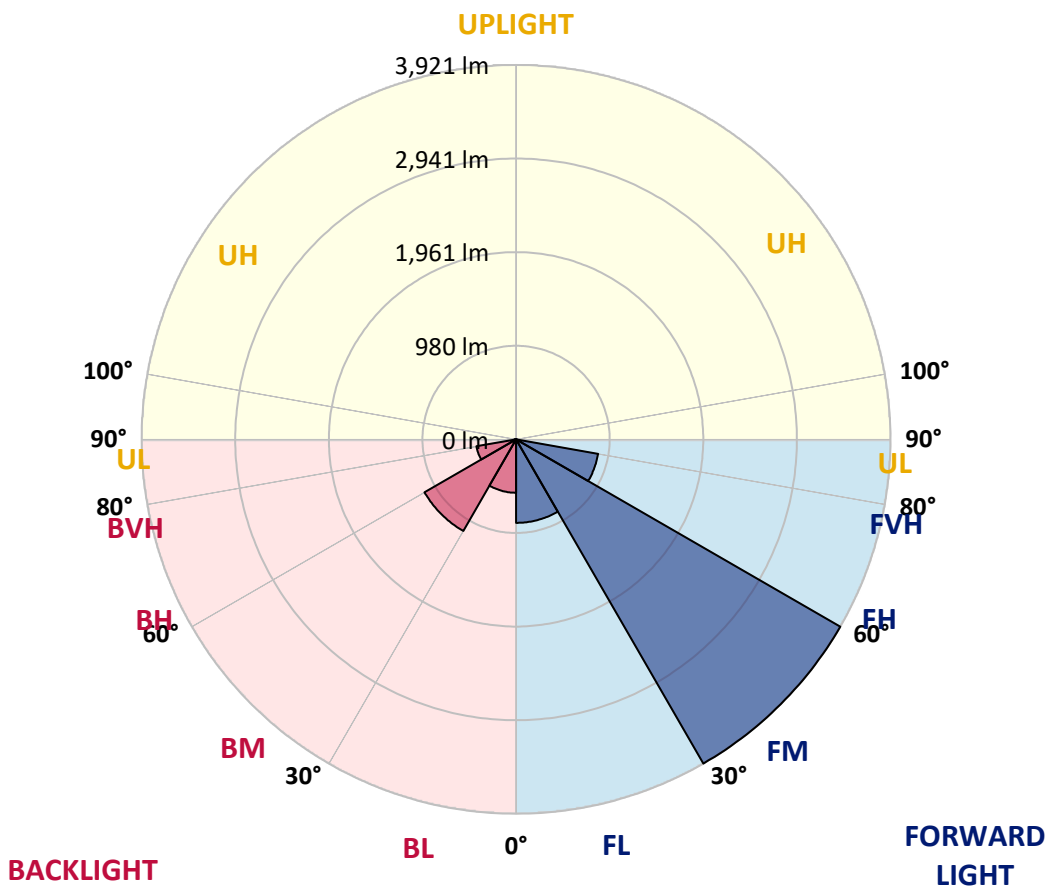
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	874.7	11.2			
FM (30°-60°)	3921.4	50.4			
FH (60°-80°)	872.6	11.2			G1/1800
FVH (80°-90°)	10.3	0.1			G1/100
BL (0°-30°)	559.5	7.2	B2/1000		
BM (30°-60°)	1107.6	14.2	B2/2500		
BH (60°-80°)	421.4	5.4	B1/500		G1/500
BVH (80°-90°)	17.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9
2.5°	1566.4	1570.4	1566.4	1573.1	1559.7	1553.7	1538.9	1516.9	1499.4	1496.8	1477.4
5°	1688.2	1696.9	1691.6	1688.9	1670.8	1657.4	1635.3	1591.2	1555.0	1549.7	1511.5
7.5°	1766.5	1772.6	1772.6	1774.6	1767.9	1752.5	1729.0	1676.8	1626.0	1617.9	1560.4
10°	1792.6	1797.3	1806.0	1822.8	1836.2	1840.8	1825.4	1775.2	1713.0	1705.0	1624.6
12.5°	1798.7	1804.0	1817.4	1848.2	1885.0	1918.5	1921.2	1884.3	1814.7	1806.0	1698.9
15°	1810.0	1815.4	1833.5	1871.6	1925.9	1990.1	2029.6	2004.2	1927.2	1917.8	1783.3
17.5°	1808.7	1814.7	1841.5	1892.4	1965.3	2058.4	2134.7	2145.4	2065.8	2049.7	1879.0
20°	1805.4	1810.7	1839.5	1901.8	1992.1	2120.0	2257.9	2313.4	2227.7	2213.0	1990.8
22.5°	1832.1	1838.2	1860.3	1911.8	2006.2	2167.5	2371.7	2505.5	2419.9	2399.1	2119.3
25°	1892.4	1901.1	1914.5	1949.9	2031.6	2209.7	2488.1	2723.1	2635.4	2610.6	2259.2
27.5°	1985.4	1996.1	2014.9	2031.6	2088.5	2263.2	2603.9	2966.8	2879.1	2853.0	2407.1
30°	2099.2	2113.3	2137.4	2148.8	2187.6	2342.2	2729.8	3217.8	3166.9	3130.8	2573.8
32.5°	2256.5	2275.9	2298.7	2302.1	2325.5	2462.0	2854.3	3466.8	3466.1	3440.7	2763.3
35°	2461.4	2482.1	2486.8	2491.5	2502.9	2626.7	3004.9	3693.7	3781.4	3752.0	2969.4
37.5°	2684.9	2715.1	2722.4	2701.7	2717.7	2824.8	3174.3	3875.8	4055.9	4024.4	3168.9
40°	2923.9	2936.0	2956.1	2923.3	2943.3	3051.8	3340.3	3992.3	4260.7	4227.2	3326.2
42.5°	3095.3	3117.4	3147.5	3135.4	3146.8	3245.9	3456.8	4048.5	4406.6	4373.2	3439.4
45°	3281.4	3288.1	3307.5	3304.8	3311.5	3403.9	3540.4	4073.3	4537.2	4507.0	3535.7
47.5°	3443.4	3453.4	3466.1	3451.4	3436.7	3496.9	3608.7	4094.7	4687.8	4651.6	3636.8
50°	3599.3	3608.0	3623.4	3580.6	3525.7	3541.1	3642.2	4124.1	4829.0	4803.6	3716.5
52.5°	3628.1	3637.5	3709.8	3718.5	3648.2	3594.0	3701.1	4189.1	4912.0	4896.0	3745.3
55°	3266.0	3282.7	3426.6	3592.0	3765.4	3747.9	3795.5	4223.2	4944.8	4948.8	3796.8
57.5°	2535.0	2559.1	2769.3	2996.2	3361.0	3662.9	3807.5	4214.5	4933.4	4955.5	3849.7
60°	1662.8	1676.8	1925.9	2180.2	2558.4	2976.1	3407.9	4057.9	4832.4	4863.8	3836.3
62.5°	1004.1	1020.2	1220.3	1413.1	1636.0	1915.1	2311.4	3261.3	4050.5	4120.8	3072.5
65°	700.9	722.3	897.7	1056.3	1133.3	1075.7	1170.8	1821.4	2523.6	2553.1	1877.7
67.5°	508.1	522.8	666.7	855.5	940.5	759.8	579.0	806.6	1099.1	1109.9	774.5
70°	332.7	349.4	480.0	651.3	767.8	615.8	433.1	436.4	462.6	467.9	449.8
72.5°	182.7	192.8	296.5	432.4	453.9	368.2	338.0	362.8	380.9	380.9	385.6
75°	94.4	103.1	121.2	142.6	172.0	201.5	243.7	280.5	299.9	301.2	299.2
77.5°	48.2	51.5	64.9	70.3	77.0	89.7	116.5	149.3	166.7	173.4	172.0
80°	22.8	24.1	27.4	32.1	39.5	50.2	62.9	75.0	85.7	87.0	94.4
82.5°	12.0	13.4	14.7	17.4	21.4	26.8	36.8	44.2	50.9	52.2	58.2
85°	4.7	5.4	6.0	6.7	9.4	11.4	15.4	20.8	25.4	25.4	30.1
87.5°	0.0	0.0	0.0	0.0	0.7	1.3	2.7	3.3	4.7	4.7	8.0
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°	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9	1457.9
2.5°	1472.7	1453.3	1444.6	1430.5	1419.1	1406.4	1396.4	1389.0	1384.3	1381.6	1379.0
5°	1496.8	1467.3	1443.9	1415.8	1396.4	1377.6	1362.2	1351.5	1346.2	1342.1	1339.5
7.5°	1534.3	1494.8	1450.6	1407.1	1372.9	1342.8	1323.4	1312.0	1304.7	1302.0	1300.0
10°	1585.8	1530.9	1457.9	1389.0	1338.1	1305.3	1291.9	1286.6	1287.2	1285.9	1285.2
12.5°	1644.0	1569.1	1455.9	1356.9	1300.6	1281.2	1281.9	1290.6	1300.6	1303.3	1304.0
15°	1707.0	1606.5	1436.5	1315.4	1271.2	1273.2	1290.6	1311.3	1330.1	1337.5	1338.8
17.5°	1775.2	1638.0	1401.0	1269.8	1247.1	1268.5	1300.6	1334.8	1362.2	1374.3	1377.6
20°	1851.5	1664.8	1350.8	1225.0	1224.3	1259.8	1306.7	1351.5	1386.3	1402.4	1405.1
22.5°	1932.5	1681.5	1289.3	1183.5	1200.9	1248.4	1302.0	1348.8	1385.6	1401.7	1405.1
25°	2014.2	1686.9	1221.6	1145.3	1176.8	1230.3	1279.2	1316.7	1351.5	1365.6	1368.2
27.5°	2090.5	1671.5	1157.4	1112.5	1154.7	1203.6	1236.4	1256.5	1280.6	1291.3	1293.3
30°	2168.2	1640.7	1103.2	1086.4	1129.9	1166.8	1181.5	1182.8	1192.2	1192.2	1193.5
32.5°	2246.5	1595.2	1055.6	1061.0	1099.1	1123.2	1125.3	1109.9	1098.5	1079.7	1079.1
35°	2336.9	1549.0	1016.8	1032.2	1063.0	1077.7	1071.7	1042.2	1014.8	984.0	982.7
37.5°	2420.5	1501.5	984.0	1002.8	1022.2	1032.9	1018.8	983.3	960.6	929.1	924.4
40°	2489.5	1458.6	952.5	972.0	981.3	990.7	967.9	939.2	942.5	925.1	924.4
42.5°	2529.6	1417.1	923.1	937.8	943.8	950.5	930.5	909.0	927.1	913.7	914.4
45°	2559.1	1381.0	896.3	901.7	916.4	926.4	907.7	883.6	887.6	836.1	824.0
47.5°	2592.6	1360.9	870.9	865.5	891.6	909.0	880.3	845.4	821.3	770.5	765.8
50°	2628.0	1353.5	844.1	829.4	860.8	877.6	844.1	800.6	769.1	741.7	739.0
52.5°	2640.1	1352.8	810.6	785.9	817.3	840.8	812.6	768.5	731.0	704.2	702.9
55°	2687.6	1372.3	767.8	726.3	755.7	803.9	783.2	719.6	689.5	677.4	676.1
57.5°	2743.2	1375.6	700.2	661.4	702.2	759.1	733.0	678.1	645.3	630.6	629.2
60°	2720.4	1293.3	627.9	611.8	656.7	716.9	692.8	645.3	607.1	593.1	591.7
62.5°	2073.1	913.1	575.0	569.0	607.8	656.0	651.3	601.8	565.6	555.6	554.3
65°	1247.1	641.3	524.1	523.5	550.9	597.1	603.1	563.0	524.8	510.7	510.7
67.5°	616.5	490.7	466.6	463.2	480.6	513.4	538.9	506.1	473.9	460.5	458.5
70°	435.8	432.4	424.4	415.0	418.4	431.8	442.5	415.0	380.9	367.5	364.8
72.5°	376.9	377.5	372.2	364.8	362.1	352.8	343.4	323.3	302.6	288.5	289.8
75°	292.5	293.9	297.2	294.5	287.2	277.1	267.1	241.7	224.9	211.5	208.9
77.5°	170.7	177.4	188.1	185.4	186.8	172.7	168.7	143.9	128.5	119.2	117.1
80°	96.4	100.4	105.1	108.4	104.4	98.4	89.7	76.3	71.6	64.9	63.6
82.5°	58.2	62.3	64.3	66.9	65.6	57.6	50.9	42.2	38.2	34.8	34.1
85°	29.5	32.1	34.1	35.5	31.5	26.1	23.4	18.7	16.1	14.1	14.1
87.5°	7.4	8.0	9.4	8.0	7.4	3.3	2.7	0.7	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)