

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: P632318

Luminaire Tested: GWS-SA2C-740-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632318  
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-SA2C-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**

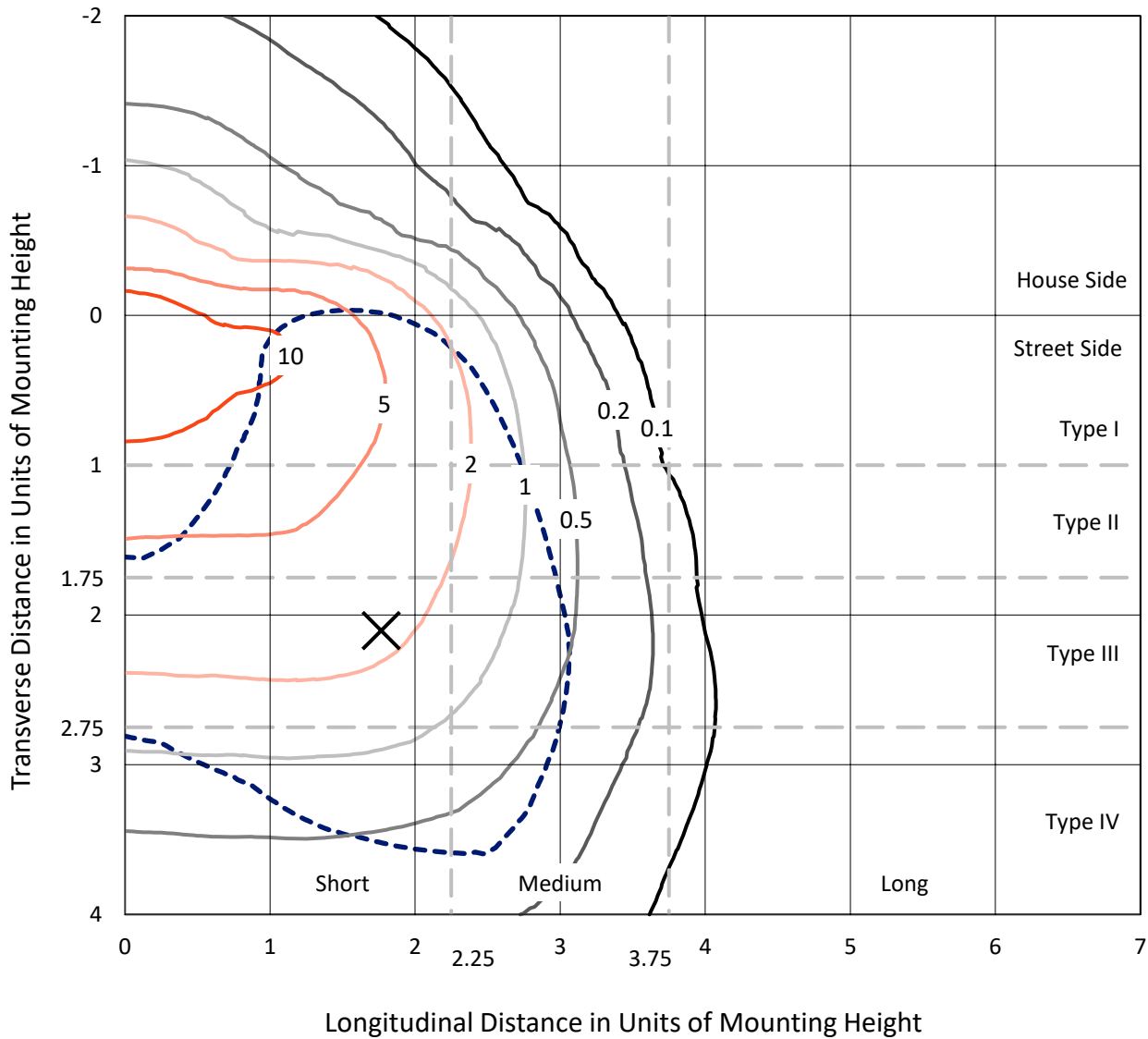
Lumens per Lamp: N/A  
Luminaire Lumens: 8888.7 lumens  
Efficiency: N/A  
Efficacy: 140.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

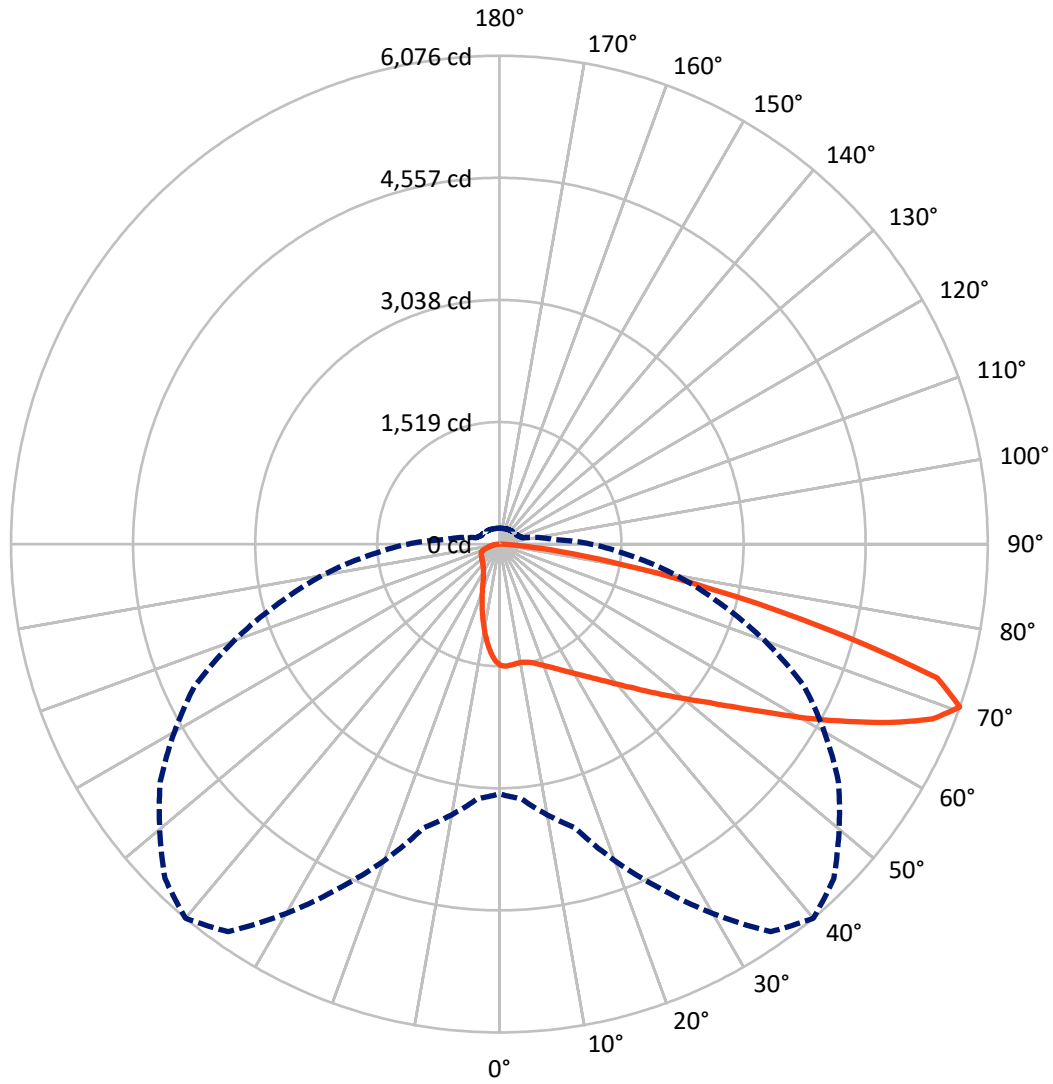
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.1 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
<b>House Side</b>	Lumens	1369.1	0.0	1369.1
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	7519.6	0.0	7519.6
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	8888.7	0.0	8888.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.3	1.5
10°-20°	347.6	3.9
20°-30°	545.7	6.1
30°-40°	820.5	9.2
40°-50°	1266.5	14.2
50°-60°	1880.9	21.2
60°-70°	2370.9	26.7
70°-80°	1371.0	15.4
80°-90°	152.2	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°	8888.7	100.0
0°-180°	8888.7	100.0

**Coefficient of Utilization**



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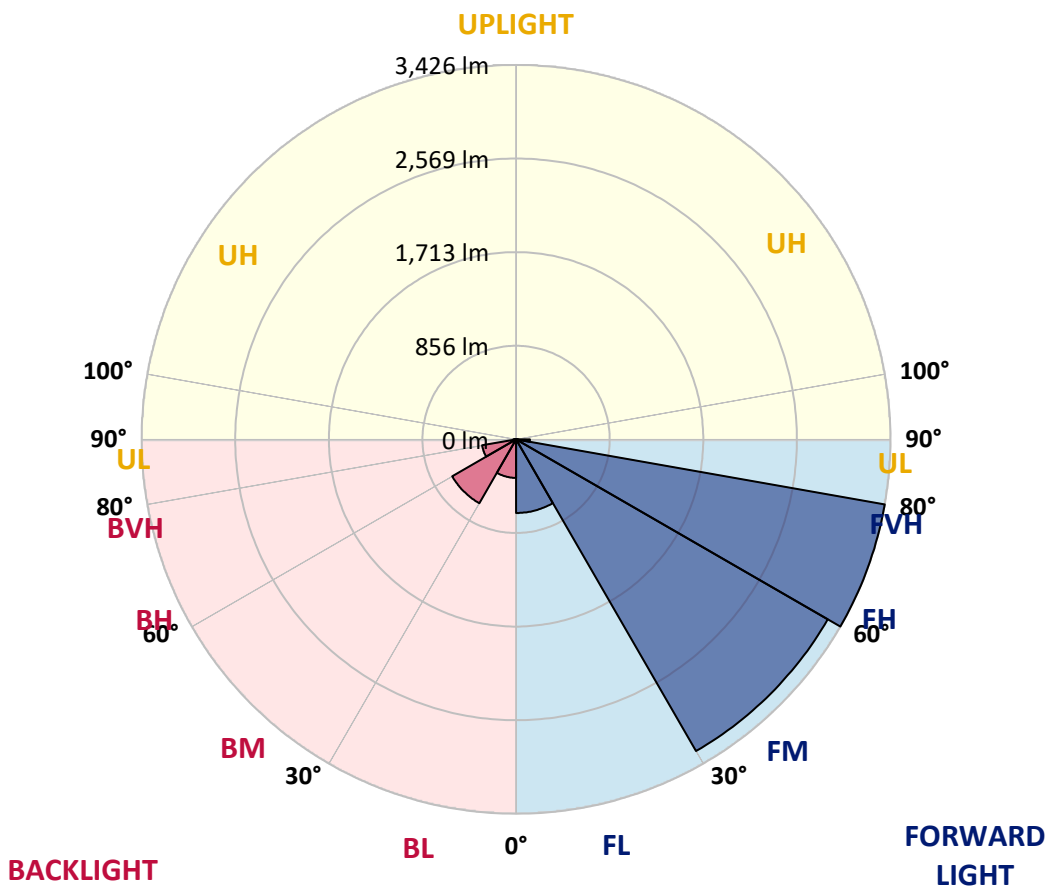
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	673.8	7.6			
FM (30°-60°)	3293.1	37.0			
FH (60°-80°)	3425.9	38.5			G2/5000
FVH (80°-90°)	126.7	1.4			G2/225
BL (0°-30°)	352.8	4.0	B1/500		
BM (30°-60°)	674.8	7.6	B1/1000		
BH (60°-80°)	316.0	3.6	B1/500		G1/500
BVH (80°-90°)	25.4	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°	1509.4	1509.4	1509.4	1509.4	1509.4	1509.4	1509.4	1509.4	1509.4	1509.4	1509.4
2.5°	1518.7	1521.3	1523.3	1526.0	1524.7	1520.7	1524.0	1524.0	1516.7	1508.7	1501.4
5°	1520.7	1524.0	1523.3	1522.7	1517.4	1510.7	1510.7	1506.7	1494.1	1481.5	1469.6
7.5°	1516.7	1516.0	1515.4	1513.4	1507.4	1500.1	1498.8	1490.8	1474.2	1457.0	1439.7
10°	1498.8	1498.1	1500.1	1504.8	1503.4	1496.8	1496.8	1489.5	1470.3	1449.0	1426.5
12.5°	1484.2	1484.2	1492.2	1504.8	1509.4	1506.7	1507.4	1502.1	1480.2	1455.0	1428.5
15°	1486.2	1486.8	1504.1	1524.7	1533.3	1531.3	1532.0	1526.0	1501.4	1476.2	1440.4
17.5°	1499.5	1502.8	1532.6	1561.2	1572.4	1569.8	1565.1	1555.2	1527.3	1498.8	1455.0
20°	1527.3	1532.6	1571.1	1606.9	1620.2	1614.2	1606.3	1586.4	1555.8	1524.7	1470.9
22.5°	1582.4	1585.7	1628.2	1663.3	1673.9	1666.6	1650.7	1622.2	1587.0	1554.5	1490.2
25°	1660.0	1664.0	1704.5	1737.0	1734.3	1725.7	1703.8	1668.6	1626.8	1592.3	1518.0
27.5°	1752.2	1758.9	1798.7	1824.6	1807.3	1794.7	1770.1	1727.7	1680.6	1649.4	1560.5
30°	1853.1	1855.7	1889.6	1915.4	1888.9	1871.7	1841.8	1796.0	1753.6	1730.3	1624.2
32.5°	1950.6	1953.3	1982.5	1997.1	1969.2	1956.6	1930.7	1882.3	1852.4	1839.8	1719.1
35°	2053.5	2052.8	2076.7	2089.3	2060.8	2055.4	2028.9	1991.7	1986.4	2003.0	1857.7
37.5°	2156.3	2150.3	2162.9	2179.5	2163.6	2168.9	2151.6	2139.0	2159.6	2202.7	2042.2
40°	2238.6	2238.6	2251.8	2272.4	2277.7	2300.9	2291.0	2307.6	2373.9	2476.7	2270.4
42.5°	2311.5	2312.2	2340.1	2371.9	2410.4	2446.2	2454.2	2497.3	2634.7	2795.9	2557.0
45°	2387.8	2388.5	2426.3	2472.8	2554.4	2622.7	2638.6	2735.5	2931.9	3128.3	2868.2
47.5°	2476.1	2468.8	2521.2	2598.8	2714.9	2813.1	2854.3	2991.6	3239.7	3481.2	3161.5
50°	2575.6	2560.3	2618.7	2752.8	2896.1	3030.7	3099.8	3257.0	3570.2	3807.0	3437.5
52.5°	2687.7	2679.1	2740.1	2903.4	3122.3	3277.6	3371.1	3577.5	3891.3	4131.5	3656.4
55°	2827.1	2806.5	2894.7	3102.4	3387.7	3585.4	3696.2	3894.6	4242.3	4426.0	3823.6
57.5°	2979.7	2957.1	3075.2	3351.2	3732.7	3949.7	4088.3	4251.5	4572.7	4651.6	3921.8
60°	3144.2	3136.9	3276.9	3643.1	4144.1	4396.2	4496.4	4644.3	4859.9	4782.3	3897.2
62.5°	3294.8	3292.2	3495.8	3959.6	4580.0	4857.3	4936.9	4976.1	5067.0	4773.7	3702.2
65°	3453.4	3475.9	3751.3	4326.5	5079.6	5351.6	5384.8	5285.2	5136.6	4547.5	3302.8
67.5°	3473.3	3517.1	3911.8	4670.2	5553.3	5810.0	5783.5	5402.7	4930.9	3917.8	2588.9
70°	3106.4	3182.7	3655.7	4722.6	5887.0	6076.1	5884.4	5149.9	4184.5	2838.3	1628.2
72.5°	2595.5	2661.2	3079.2	4027.3	5456.4	5697.3	5437.8	4359.0	2957.1	1628.2	829.3
75°	2020.3	2096.6	2482.1	3201.3	4085.0	4181.2	4051.2	3040.0	1625.5	671.4	376.9
77.5°	1232.7	1287.8	1587.7	2168.9	2858.2	2714.3	2300.3	1704.5	713.2	321.8	232.9
80°	545.4	579.2	782.2	1165.1	1651.4	1561.2	1230.7	727.8	390.1	204.3	162.6
82.5°	292.6	314.5	385.5	461.1	725.2	758.4	615.0	419.3	209.7	116.8	92.9
85°	128.7	141.3	175.2	167.2	238.2	234.2	236.2	287.9	100.2	53.7	60.4
87.5°	0.0	0.0	0.0	0.0	0.7	0.7	7.3	38.5	10.0	15.9	13.9
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°	1509.4	1509.4	1509.4	1509.4	1509.4	1509.4	1509.4	1509.4	1509.4	1509.4	1509.4
2.5°	1493.5	1481.5	1478.2	1474.2	1466.9	1454.3	1445.0	1434.4	1429.8	1424.5	1425.1
5°	1456.3	1441.7	1427.8	1409.9	1387.3	1362.1	1344.9	1325.0	1314.3	1304.4	1307.0
7.5°	1424.5	1401.9	1373.4	1335.6	1295.1	1250.0	1213.5	1185.0	1165.7	1152.5	1159.1
10°	1404.6	1378.0	1328.3	1266.6	1198.2	1129.2	1076.8	1027.7	997.2	973.3	972.0
12.5°	1400.6	1366.1	1293.8	1204.2	1105.3	1013.1	936.2	869.8	829.3	799.5	810.8
15°	1404.6	1360.8	1263.9	1146.5	1021.7	897.0	801.5	725.2	676.7	649.5	647.6
17.5°	1409.2	1355.5	1230.1	1084.1	934.2	791.5	680.7	599.8	550.0	522.8	523.5
20°	1413.2	1347.5	1190.3	1015.8	845.3	693.3	578.5	501.6	457.1	437.2	440.5
22.5°	1419.8	1339.6	1147.8	942.8	754.4	598.5	497.6	435.2	408.7	395.4	396.1
25°	1432.4	1334.9	1104.0	863.2	664.8	522.8	441.9	400.1	383.5	375.5	374.9
27.5°	1458.3	1338.9	1058.2	786.2	583.9	465.1	406.0	378.8	367.6	362.3	361.6
30°	1501.4	1354.8	1018.4	707.9	514.2	420.0	381.5	364.9	358.3	353.6	353.0
32.5°	1567.1	1384.7	975.3	634.9	457.8	386.8	362.3	353.6	349.0	346.3	346.3
35°	1666.6	1439.1	932.8	571.3	414.0	360.9	347.0	343.7	339.7	338.4	339.7
37.5°	1810.0	1526.0	894.4	515.5	382.8	341.0	330.4	331.7	328.4	330.4	332.4
40°	1991.7	1642.1	861.9	469.7	359.6	326.4	315.8	320.5	318.5	320.5	323.8
42.5°	2222.0	1786.1	837.3	433.9	343.0	314.5	304.5	309.2	307.9	310.5	313.8
45°	2478.7	1975.8	826.0	408.7	331.1	305.9	295.2	298.6	297.2	299.2	302.5
47.5°	2724.9	2148.3	836.0	394.1	321.1	298.6	287.3	288.6	287.9	287.3	289.3
50°	2937.2	2285.7	864.5	389.5	314.5	291.3	280.6	281.3	279.3	275.3	276.7
52.5°	3110.4	2395.8	881.8	389.5	311.2	283.3	273.4	274.0	270.0	264.7	265.4
55°	3224.5	2440.3	867.8	388.8	309.8	276.7	266.1	266.7	262.7	256.1	256.8
57.5°	3257.0	2397.1	809.4	381.5	308.5	271.4	258.8	260.1	257.4	250.1	250.1
60°	3166.1	2239.2	702.6	364.9	305.2	268.0	253.4	255.4	254.1	246.8	246.8
62.5°	2927.9	1958.6	575.2	339.7	295.9	264.1	248.8	252.8	256.1	252.1	251.5
65°	2482.1	1569.1	467.7	311.8	284.0	257.4	242.2	252.1	259.4	264.7	264.7
67.5°	1862.4	1123.3	381.5	282.6	266.1	244.2	233.5	242.8	248.1	251.5	253.4
70°	1135.2	660.8	300.6	248.8	240.2	224.3	216.3	207.0	199.7	198.4	199.0
72.5°	555.3	378.2	244.2	211.6	205.0	190.4	172.5	168.5	165.2	163.2	162.6
75°	305.9	263.4	201.7	175.8	163.9	146.0	142.0	135.3	134.0	131.4	132.0
77.5°	216.3	207.7	166.5	142.6	124.7	115.4	117.4	112.8	112.8	110.8	110.1
80°	162.6	163.2	128.1	104.2	92.2	88.9	90.9	90.9	89.6	88.9	88.2
82.5°	102.8	116.1	86.3	67.0	65.7	66.3	65.7	65.0	66.3	64.4	63.7
85°	71.0	83.6	52.4	39.8	39.8	39.1	40.5	39.8	41.1	39.1	39.1
87.5°	15.9	37.2	19.2	11.9	12.6	11.9	12.6	13.3	14.6	15.3	15.3
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)