

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: P639047

Luminaire Tested: GWS-SA5B-722-U-T3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639047  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5B-722-U-T3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

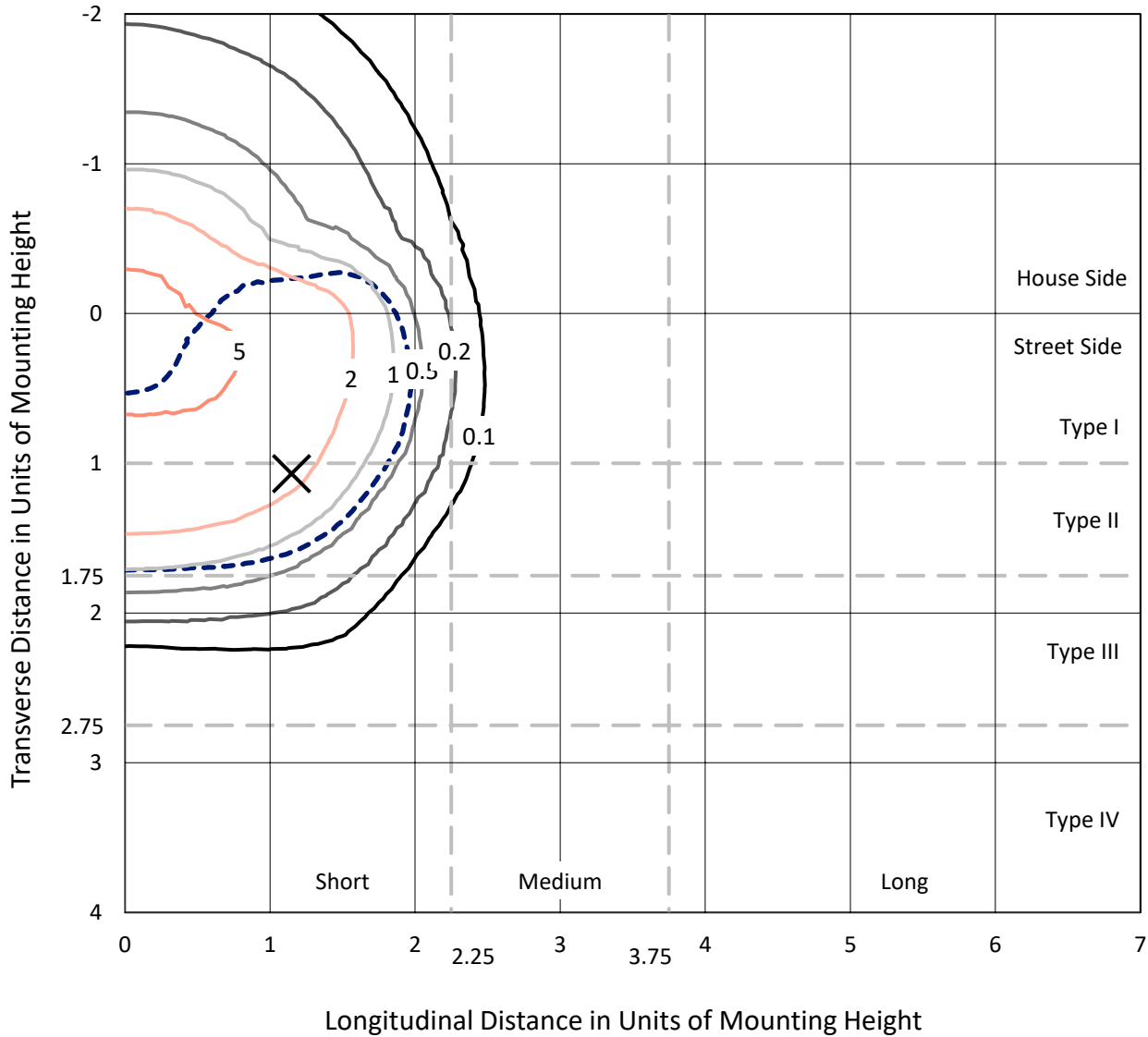
Lumens per Lamp: N/A  
Luminaire Lumens: 11162.9 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

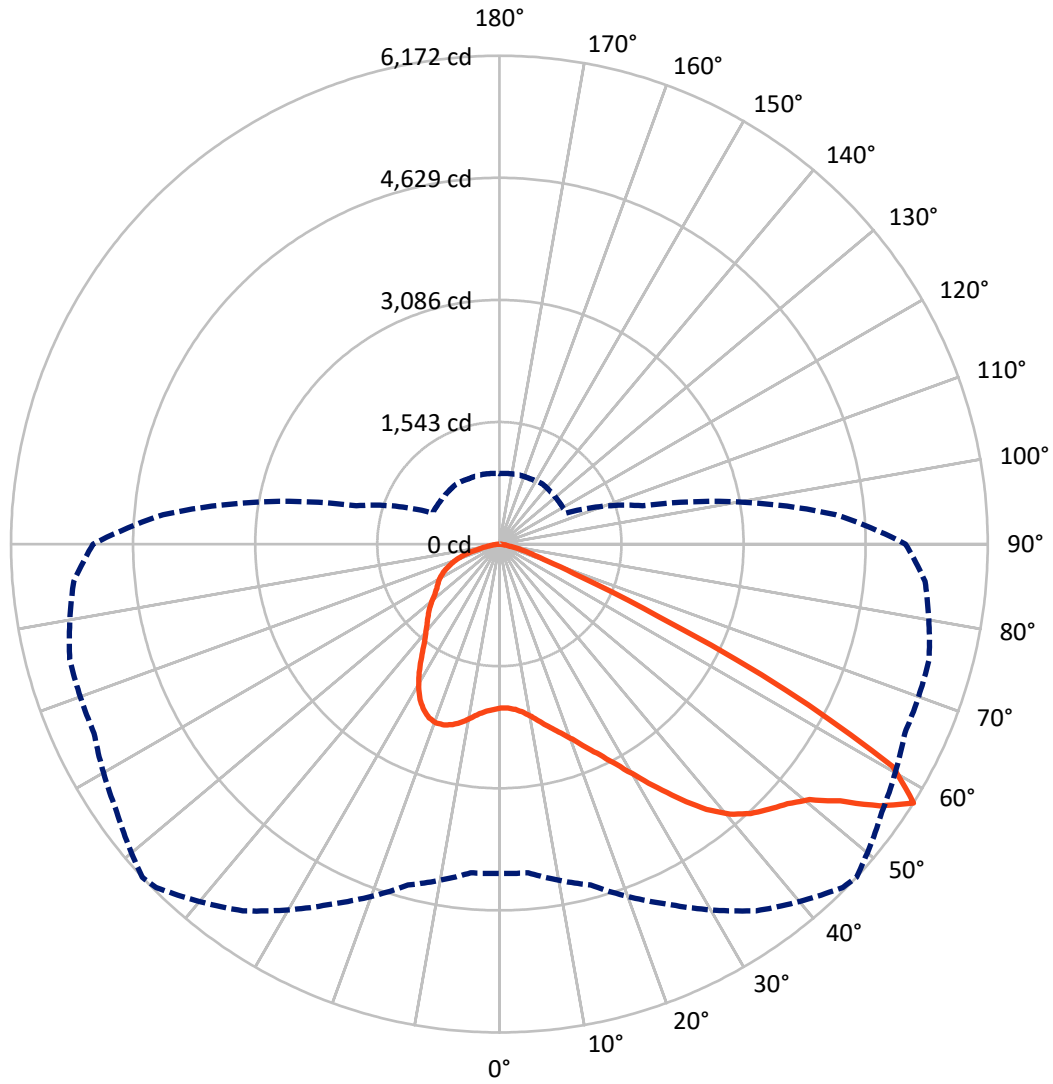
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3533.0	0.0	3533.0
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	7629.9	0.0	7629.9
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	11162.9	0.0	11162.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.2	1.8
10°-20°	671.6	6.0
20°-30°	1209.2	10.8
30°-40°	1826.4	16.4
40°-50°	2459.5	22.0
50°-60°	2955.4	26.5
60°-70°	1439.3	12.9
70°-80°	354.6	3.2
80°-90°	42.6	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°	11162.9	100.0
0°-180°	11162.9	100.0

**Coefficient of Utilization**



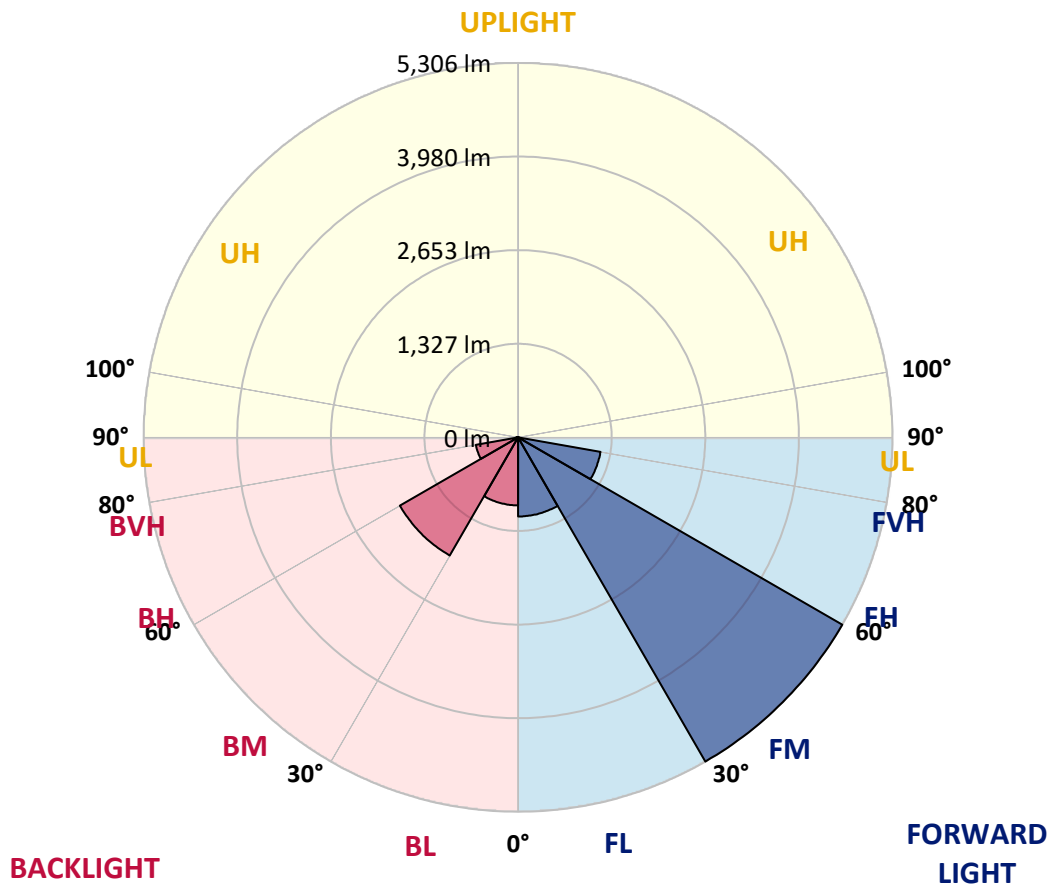
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1121.3	10.0			
FM (30°-60°)	5306.3	47.5			
FH (60°-80°)	1186.3	10.6			G1/1800
FVH (80°-90°)	16.0	0.1			G1/100
BL (0°-30°)	963.7	8.6	B2/1000		
BM (30°-60°)	1935.0	17.3	B2/2500		
BH (60°-80°)	607.7	5.4	B2/1000		G2/1000
BVH (80°-90°)	26.6	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2070.2	2070.2	2070.2	2070.2	2070.2	2070.2	2070.2	2070.2	2070.2	2070.2	2070.2
2.5°	2066.4	2065.5	2065.5	2071.1	2071.1	2073.0	2075.8	2078.6	2079.6	2074.9	2064.6
5°	2088.9	2088.9	2088.9	2093.6	2093.6	2095.5	2099.2	2100.2	2099.2	2091.7	2081.4
7.5°	2124.6	2124.6	2125.5	2131.1	2135.8	2138.6	2145.2	2144.2	2141.4	2129.2	2116.1
10°	2182.7	2185.5	2188.3	2194.9	2204.2	2210.8	2215.5	2215.5	2211.8	2193.0	2176.1
12.5°	2265.2	2268.9	2271.8	2277.4	2284.9	2296.1	2306.4	2306.4	2301.8	2278.3	2253.0
15°	2361.8	2365.5	2364.6	2366.5	2380.5	2396.5	2404.9	2410.5	2412.4	2379.6	2340.2
17.5°	2472.4	2476.1	2472.4	2466.8	2468.6	2494.0	2509.0	2529.6	2541.8	2497.7	2434.9
20°	2572.7	2569.0	2569.0	2572.7	2578.3	2609.3	2631.8	2665.5	2680.5	2627.1	2529.6
22.5°	2678.7	2687.1	2683.4	2683.4	2705.9	2757.4	2784.6	2828.7	2844.6	2775.2	2644.0
25°	2815.6	2823.1	2821.2	2823.1	2849.3	2922.4	2949.6	3031.2	3047.1	2947.8	2770.5
27.5°	2965.6	2977.8	2983.4	2981.5	3023.7	3119.3	3153.1	3266.5	3295.6	3140.9	2905.6
30°	3160.6	3173.7	3178.4	3176.5	3226.2	3356.5	3395.0	3524.4	3565.6	3369.7	3077.1
32.5°	3386.5	3399.7	3413.7	3419.4	3483.1	3616.2	3671.6	3805.6	3864.7	3634.1	3284.3
35°	3610.6	3621.9	3649.1	3693.1	3780.3	3916.3	3965.0	4097.2	4154.4	3908.8	3534.7
37.5°	3858.1	3865.6	3889.1	3950.0	4075.7	4205.0	4253.8	4380.4	4386.9	4174.1	3817.8
40°	4129.1	4129.1	4124.4	4184.4	4315.7	4446.0	4488.2	4561.3	4522.9	4378.5	4093.5
42.5°	4358.8	4355.1	4358.8	4415.1	4512.6	4618.5	4655.1	4641.0	4592.3	4535.1	4342.9
45°	4566.0	4568.8	4602.6	4645.7	4696.3	4759.2	4780.7	4701.0	4657.0	4660.7	4542.6
47.5°	4706.6	4709.5	4788.2	4860.4	4891.4	4911.0	4901.7	4791.0	4768.5	4810.7	4696.3
50°	4725.4	4740.4	4876.4	5024.5	5101.4	5104.2	5077.9	4942.9	4936.4	4984.2	4778.8
52.5°	4729.2	4744.2	4913.9	5181.1	5380.8	5423.0	5393.0	5252.3	5183.9	5136.1	4880.1
55°	4715.1	4732.0	4919.5	5286.1	5668.6	5837.4	5840.2	5641.4	5423.0	5391.1	5168.9
57.5°	4162.9	4169.4	4460.1	5018.9	5657.4	6135.5	6172.1	5902.1	5652.7	5622.7	5400.5
60°	2899.9	2926.2	3242.2	3980.0	4752.6	5595.5	5713.6	5634.9	5468.0	5249.5	4633.5
62.5°	1452.3	1474.8	1791.7	2489.3	3277.8	3943.5	4070.0	4153.5	4192.9	3958.5	3155.0
65°	625.4	642.2	839.1	1300.4	1855.5	2177.1	2221.1	2321.4	2567.1	2290.5	1699.8
67.5°	418.2	429.4	529.7	793.2	1093.2	1113.8	1107.3	1128.8	1182.3	976.0	767.9
70°	320.7	330.0	397.5	581.3	785.7	672.2	636.6	577.5	627.2	639.4	622.6
72.5°	232.5	240.0	290.6	396.6	492.2	429.4	423.8	453.8	521.3	540.0	529.7
75°	150.0	153.8	184.7	217.5	254.1	275.6	286.9	341.3	409.7	423.8	411.6
77.5°	100.3	103.1	120.9	139.7	144.4	145.3	149.1	173.5	220.3	246.6	243.8
80°	52.5	52.5	59.1	59.1	67.5	80.6	84.4	100.3	121.9	135.0	135.9
82.5°	20.6	21.6	25.3	28.1	33.8	41.3	44.1	52.5	63.8	73.1	81.6
85°	8.4	9.4	10.3	12.2	15.0	18.8	19.7	22.5	30.0	37.5	42.2
87.5°	0.0	0.0	0.9	0.9	1.9	2.8	2.8	3.8	4.7	8.4	11.3
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°	2070.2	2070.2	2070.2	2070.2	2070.2	2070.2	2070.2	2070.2	2070.2	2070.2	2070.2
2.5°	2076.7	2064.6	2076.7	2080.5	2090.8	2094.6	2088.0	2087.1	2087.1	2077.7	2074.9
5°	2090.8	2079.6	2091.7	2097.4	2112.4	2121.7	2123.6	2131.1	2135.8	2132.1	2131.1
7.5°	2125.5	2111.4	2124.6	2133.0	2152.7	2167.7	2174.2	2191.1	2203.3	2201.4	2200.5
10°	2186.4	2167.7	2182.7	2196.7	2218.3	2236.1	2237.1	2246.4	2258.6	2254.9	2253.0
12.5°	2256.8	2238.9	2255.8	2269.9	2295.2	2302.7	2290.5	2286.8	2288.6	2283.9	2280.2
15°	2343.0	2317.7	2332.7	2348.6	2362.7	2354.3	2328.0	2317.7	2316.8	2310.2	2306.4
17.5°	2429.3	2397.4	2408.6	2417.1	2410.5	2384.3	2351.4	2333.6	2325.2	2312.1	2308.3
20°	2514.6	2474.3	2472.4	2465.8	2435.8	2388.0	2343.9	2308.3	2286.8	2268.9	2262.4
22.5°	2612.1	2555.8	2527.7	2497.7	2432.1	2354.3	2287.7	2237.1	2202.4	2179.9	2172.4
25°	2717.1	2637.4	2579.3	2519.3	2394.6	2282.1	2189.2	2119.9	2078.6	2054.2	2045.8
27.5°	2821.2	2711.5	2624.3	2522.1	2319.6	2178.0	2053.3	1959.5	1918.3	1898.6	1892.0
30°	2961.8	2809.9	2677.7	2485.5	2221.1	2033.6	1878.0	1783.3	1756.1	1742.0	1736.4
32.5°	3124.0	2934.6	2749.0	2408.6	2095.5	1864.8	1700.8	1635.1	1616.4	1589.2	1588.3
35°	3337.8	3112.8	2816.5	2295.2	1937.0	1683.9	1564.8	1517.9	1484.2	1441.1	1437.3
37.5°	3587.2	3335.0	2853.1	2150.8	1752.3	1534.8	1463.6	1411.1	1356.7	1299.5	1292.0
40°	3845.0	3594.7	2855.9	1980.2	1571.4	1436.4	1376.4	1307.9	1240.4	1176.7	1168.2
42.5°	4116.0	3836.6	2806.2	1783.3	1423.2	1351.1	1290.1	1203.9	1127.9	1084.8	1080.1
45°	4357.9	4031.6	2693.7	1576.1	1313.5	1279.8	1202.0	1109.2	1068.8	1037.9	1031.3
47.5°	4548.2	4161.0	2541.8	1390.4	1224.5	1206.7	1105.4	1057.6	1026.6	998.5	992.0
50°	4642.0	4190.0	2343.9	1239.5	1142.0	1120.4	1051.0	1014.5	993.8	971.3	965.7
52.5°	4758.2	4222.9	2173.3	1112.9	1061.3	1032.3	1006.0	977.0	962.0	947.9	943.2
55°	5025.4	4346.6	2083.3	1011.6	984.5	971.3	967.6	943.2	938.5	929.1	920.7
57.5°	5134.2	4266.9	1870.5	929.1	923.5	925.4	934.8	912.3	907.6	896.3	890.7
60°	4129.1	3225.3	1266.7	857.9	872.9	885.1	894.5	871.9	865.4	863.5	856.0
62.5°	2645.8	1983.9	884.1	791.3	813.8	828.8	834.4	812.9	808.2	823.2	824.1
65°	1377.3	1081.0	717.2	720.1	738.8	761.3	772.6	765.1	763.2	779.1	780.1
67.5°	703.2	661.0	625.4	635.7	650.7	679.7	706.0	738.8	750.1	751.9	752.9
70°	599.1	580.4	562.5	569.1	585.0	601.0	626.3	642.2	623.5	618.8	616.9
72.5°	510.0	496.0	487.5	495.0	503.5	500.7	493.2	500.7	503.5	504.4	505.4
75°	396.6	386.3	379.7	380.7	380.7	370.3	356.3	347.8	338.5	331.0	331.0
77.5°	242.8	244.7	251.3	250.3	249.4	245.6	231.6	224.1	201.6	195.0	195.0
80°	138.8	141.6	148.1	150.0	150.0	145.3	131.3	122.8	112.5	107.8	106.9
82.5°	84.4	88.1	91.9	93.8	94.7	89.1	76.9	70.3	64.7	60.0	60.0
85°	44.1	45.9	49.7	50.6	47.8	42.2	35.6	32.8	27.2	26.3	26.3
87.5°	12.2	13.1	15.0	12.2	11.3	8.4	4.7	3.8	1.9	0.9	0.9
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)