

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: P641738

Luminaire Tested: GWS-SA6B-740-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6B-740-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18634 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 138.9
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

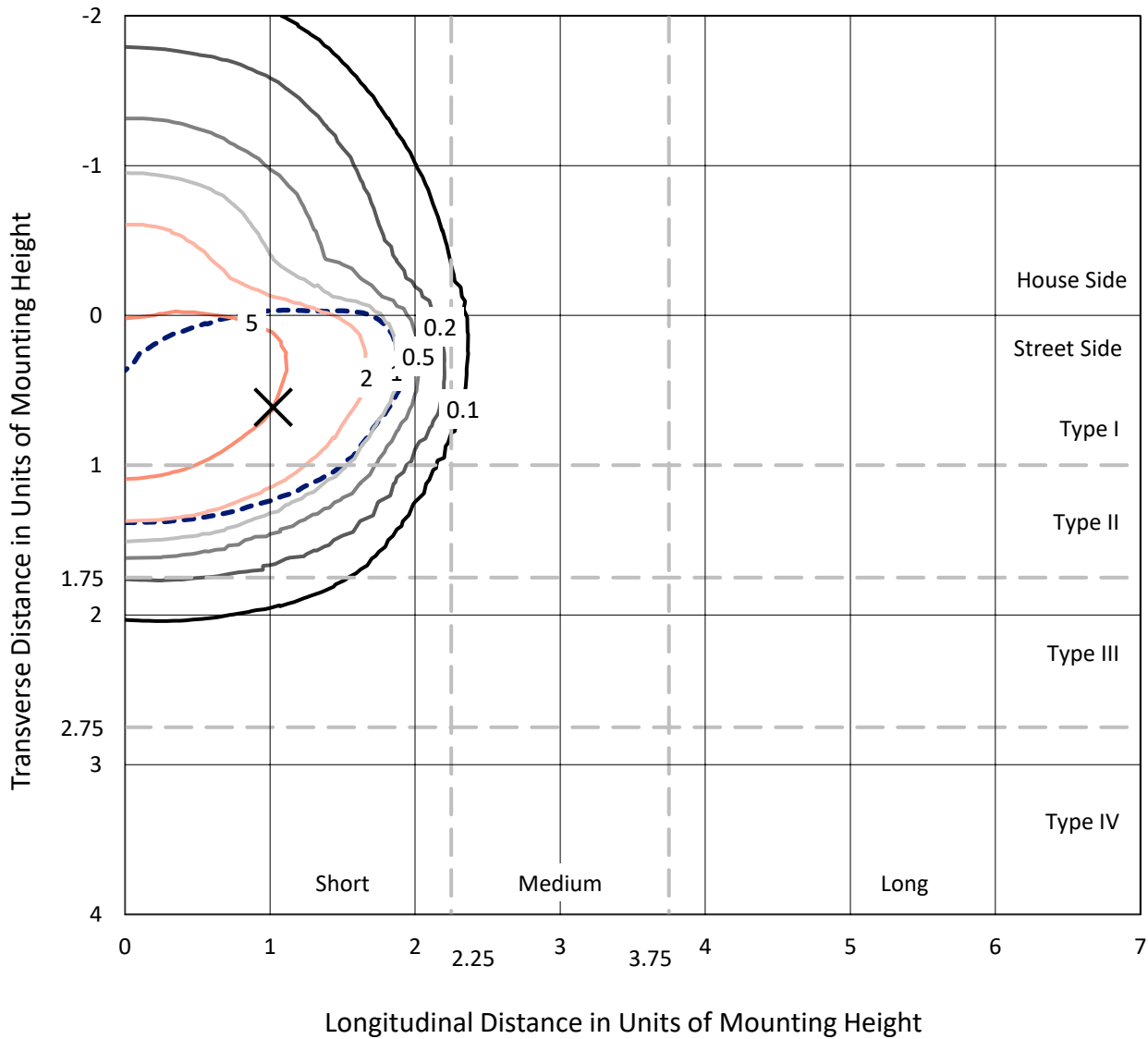


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

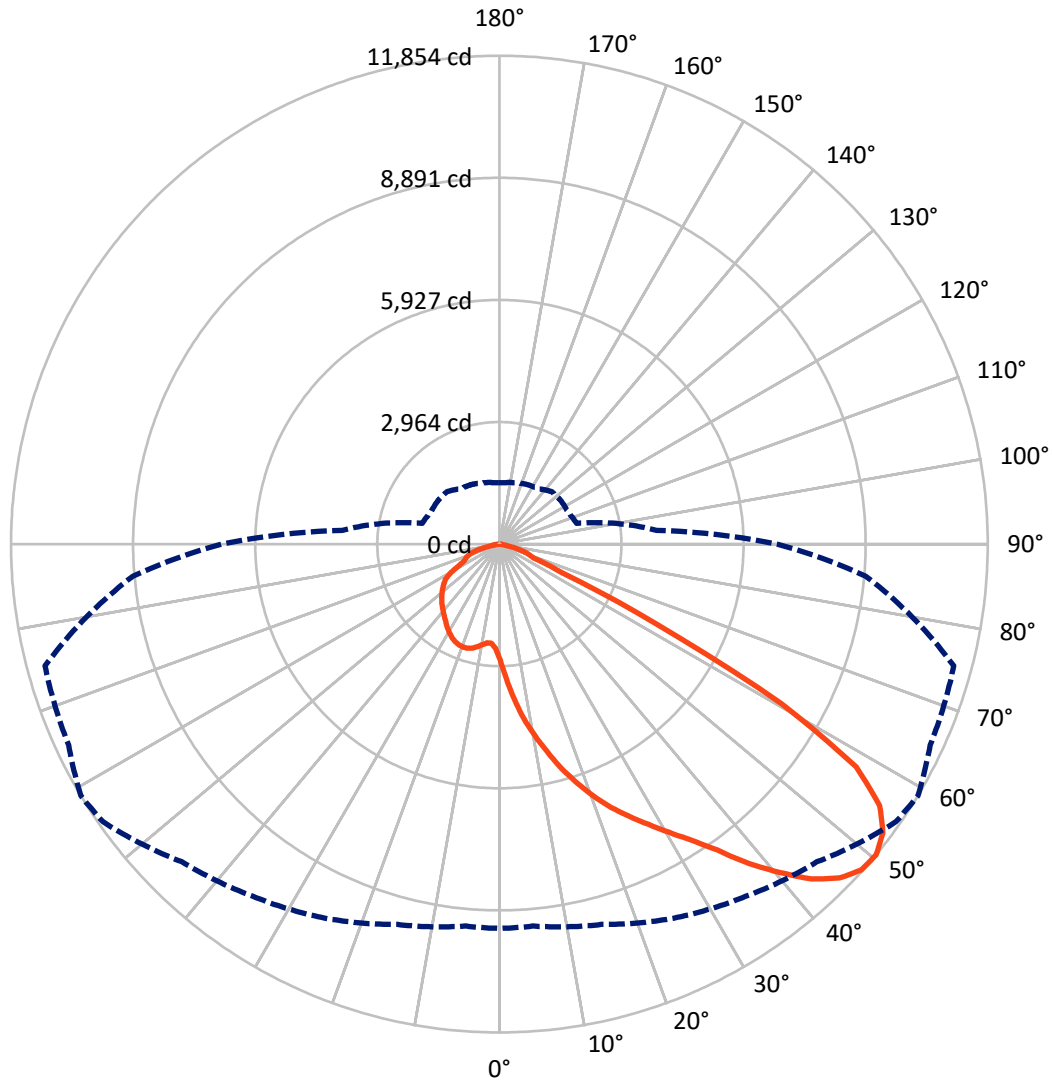


Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4286.2	0.0	4286.2
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	14347.8	0.0	14347.8
	% Fixture	77.0	0.0	77.0
Total	Lumens	18634.0	0.0	18634.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.7	1.7
10°-20°	1149.7	6.2
20°-30°	2177.1	11.7
30°-40°	3610.3	19.4
40°-50°	4931.9	26.5
50°-60°	4476.9	24.0
60°-70°	1490.8	8.0
70°-80°	434.8	2.3
80°-90°	45.7	0.2
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°	18634.0	100.0
0°-180°	18634.0	100.0

Coefficient of Utilization



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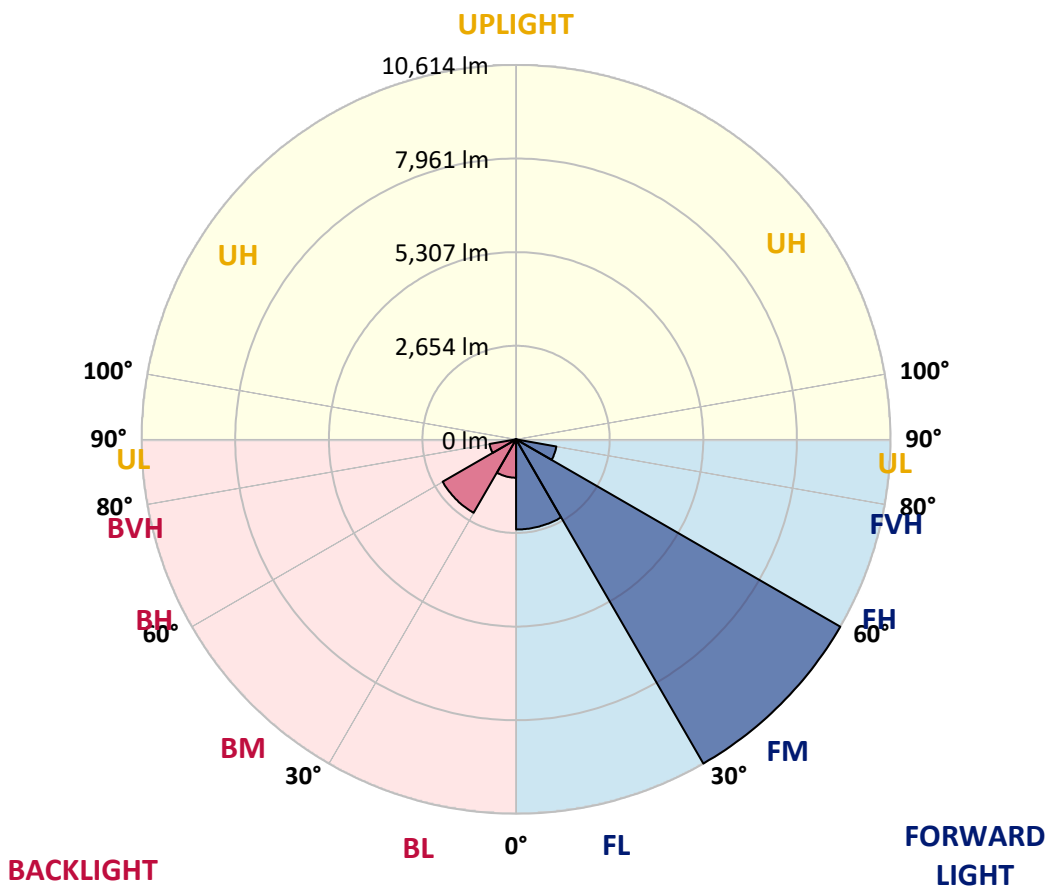
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2555.2	13.7			
FM (30°-60°)	10614.2	57.0			
FH (60°-80°)	1160.6	6.2			G1/1800
FVH (80°-90°)	17.9	0.1			G1/100
BL (0°-30°)	1088.4	5.8	B3/2500		
BM (30°-60°)	2405.0	12.9	B2/2500		
BH (60°-80°)	765.0	4.1	B2/1000		G2/1000
BVH (80°-90°)	27.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2
2.5°	3658.0	3685.3	3642.8	3645.9	3539.6	3491.0	3354.4	3274.0	3220.9	3072.1	2937.0
5°	4395.7	4363.8	4330.4	4310.7	4218.1	4087.5	3917.5	3782.5	3658.0	3366.6	3085.8
7.5°	4848.0	4831.3	4808.5	4796.4	4705.3	4568.7	4398.7	4283.3	4102.7	3708.1	3266.4
10°	5232.0	5212.3	5198.6	5207.7	5133.3	5045.3	4860.1	4728.1	4524.7	4069.3	3485.0
12.5°	5529.5	5540.1	5544.7	5593.2	5561.4	5508.2	5317.0	5177.4	4951.2	4450.3	3741.5
15°	5764.8	5761.7	5814.8	5907.4	5959.0	5925.6	5772.3	5655.5	5379.2	4825.2	4017.7
17.5°	5819.4	5822.4	5905.9	6068.3	6236.8	6318.8	6232.3	6092.6	5819.4	5195.6	4304.6
20°	5863.4	5869.5	5956.0	6141.2	6387.1	6616.3	6629.9	6529.7	6294.5	5596.3	4596.0
22.5°	6141.2	6154.8	6177.6	6294.5	6516.1	6806.0	6965.4	6944.1	6746.8	6016.7	4910.2
25°	6871.3	6830.3	6719.5	6686.1	6771.1	7006.4	7278.0	7319.0	7221.9	6479.7	5248.7
27.5°	7772.9	7728.8	7564.9	7391.9	7208.2	7290.2	7580.1	7703.0	7704.6	6989.7	5588.7
30°	8591.0	8556.1	8422.5	8175.1	7857.9	7739.5	7953.5	8118.9	8217.6	7578.6	5975.7
32.5°	9290.7	9258.8	9078.2	8876.3	8566.7	8328.4	8405.8	8565.2	8795.9	8340.5	6456.9
35°	9879.6	9847.7	9674.7	9471.3	9184.5	9041.8	9014.5	9123.7	9422.8	9135.9	7009.4
37.5°	10357.7	10325.9	10145.2	9954.0	9735.4	9744.5	9785.5	9838.6	10010.2	9987.4	7599.8
40°	10667.4	10634.0	10505.0	10368.4	10230.2	10339.5	10542.9	10479.2	10570.2	10675.0	8143.2
42.5°	10805.5	10763.0	10688.6	10658.3	10615.8	10785.8	11177.4	11113.6	11004.3	11133.4	8547.0
45°	10667.4	10631.0	10629.4	10722.0	10820.7	11039.3	11616.0	11564.4	11288.2	11355.0	8788.3
47.5°	10243.9	10212.0	10298.5	10541.4	10784.3	11103.0	11811.8	11820.9	11490.1	11447.6	8944.6
50°	9328.6	9307.4	9557.8	10017.7	10436.7	10904.2	11749.6	11854.3	11538.6	11418.7	8924.9
52.5°	7467.8	7566.4	8111.3	8879.4	9692.9	10555.1	11518.9	11655.5	11304.9	11229.0	8818.7
55°	5112.1	5157.6	5702.5	6824.2	8114.4	9799.2	10989.2	11200.1	11028.6	11197.1	8929.5
57.5°	2647.1	2683.5	3113.1	4108.8	5503.7	7744.0	9518.4	10210.5	10471.6	11358.0	9274.0
60°	1086.8	1117.1	1294.7	1775.9	2776.1	4509.5	6850.0	7876.1	8489.3	10372.9	8235.8
62.5°	789.3	804.5	889.5	1059.5	1454.1	2210.0	3876.6	4254.5	4685.6	6500.9	5229.0
65°	664.8	681.5	749.8	853.0	1061.0	1355.4	1656.0	1665.1	1835.1	2648.6	1938.3
67.5°	557.0	572.2	632.9	721.0	857.6	962.3	889.5	891.0	887.9	960.8	928.9
70°	434.1	446.2	507.0	601.1	672.4	617.8	695.2	769.5	737.7	766.5	810.5
72.5°	317.2	330.9	384.0	455.4	437.1	440.2	563.1	639.0	620.8	652.7	693.7
75°	229.2	238.3	265.6	227.7	239.8	289.9	396.2	437.1	455.4	482.7	519.1
77.5°	74.4	74.4	83.5	104.7	130.5	160.9	201.9	218.6	245.9	276.2	302.1
80°	37.9	39.5	47.1	57.7	72.9	92.6	118.4	126.0	139.6	156.3	167.0
82.5°	18.2	19.7	22.8	28.8	37.9	48.6	65.3	72.9	82.0	92.6	100.2
85°	4.6	4.6	6.1	9.1	12.1	18.2	24.3	28.8	36.4	44.0	48.6
87.5°	0.0	0.0	0.0	0.0	0.0	1.5	4.6	6.1	7.6	9.1	12.1
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°	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2
2.5°	2876.3	2791.3	2682.0	2589.4	2504.4	2439.2	2383.0	2355.7	2329.9	2311.7	2317.7
5°	2955.2	2809.5	2606.1	2465.0	2378.5	2334.4	2304.1	2288.9	2285.9	2273.7	2269.2
7.5°	3070.6	2862.6	2591.0	2448.3	2390.6	2367.8	2351.1	2342.0	2346.6	2334.4	2329.9
10°	3213.3	2950.7	2628.9	2502.9	2452.8	2436.1	2417.9	2405.8	2399.7	2381.5	2378.5
12.5°	3390.9	3060.0	2697.2	2572.7	2522.7	2493.8	2469.5	2448.3	2434.6	2411.8	2405.8
15°	3582.1	3181.4	2777.6	2641.0	2581.8	2539.3	2499.9	2468.0	2443.7	2413.4	2408.8
17.5°	3790.0	3308.9	2844.4	2688.1	2612.2	2556.0	2498.4	2451.3	2417.9	2378.5	2373.9
20°	4007.1	3437.9	2894.5	2710.9	2613.7	2537.8	2460.4	2398.2	2355.7	2316.2	2313.2
22.5°	4231.7	3556.3	2924.9	2704.8	2589.4	2495.3	2402.7	2332.9	2282.8	2235.8	2232.7
25°	4457.9	3670.1	2932.5	2680.5	2540.9	2431.6	2339.0	2257.0	2200.9	2147.7	2141.7
27.5°	4687.1	3765.8	2914.3	2631.9	2475.6	2357.2	2264.6	2184.2	2126.5	2073.4	2064.3
30°	4931.5	3847.7	2874.8	2568.2	2399.7	2278.3	2187.2	2126.5	2071.9	2018.7	2009.6
32.5°	5192.5	3919.1	2818.6	2490.8	2311.7	2199.4	2132.6	2077.9	2023.3	1976.2	1967.1
35°	5503.7	3966.1	2735.1	2390.6	2229.7	2141.7	2096.1	2032.4	1965.6	1914.0	1909.4
37.5°	5825.5	4002.5	2635.0	2295.0	2158.4	2108.3	2070.3	1983.8	1900.3	1838.1	1830.5
40°	6136.6	4032.9	2510.5	2205.4	2093.1	2084.0	2032.4	1924.6	1780.4	1710.6	1704.5
42.5°	6426.5	4042.0	2380.0	2109.8	2033.9	2029.4	1971.7	1804.7	1693.9	1649.9	1643.8
45°	6625.4	4034.4	2244.9	2020.2	1974.7	1950.4	1889.7	1718.2	1649.9	1610.4	1602.8
47.5°	6772.6	3995.0	2093.1	1926.1	1907.9	1874.5	1744.0	1663.6	1599.8	1560.3	1552.8
50°	6746.8	3831.0	1939.8	1835.1	1827.5	1798.6	1637.7	1595.3	1539.1	1496.6	1490.5
52.5°	6613.2	3519.9	1783.5	1734.9	1750.1	1693.9	1561.9	1513.3	1464.7	1416.1	1405.5
55°	6646.6	3295.2	1665.1	1637.7	1665.1	1537.6	1476.9	1425.3	1379.7	1332.7	1323.6
57.5°	6792.3	3073.6	1539.1	1533.0	1561.9	1417.7	1367.6	1302.3	1237.0	1199.1	1199.1
60°	5704.0	2240.3	1317.5	1332.7	1397.9	1320.5	1276.5	1209.7	1138.4	1105.0	1105.0
62.5°	3372.6	1405.5	1092.8	1076.1	1117.1	1165.7	1190.0	1135.3	1050.3	1006.3	1007.8
65°	1486.0	1023.0	963.8	950.2	938.0	971.4	1038.2	1042.8	953.2	901.6	903.1
67.5°	915.3	925.9	901.6	891.0	880.3	874.3	868.2	871.2	847.0	799.9	798.4
70°	825.7	854.5	837.8	828.7	815.1	804.5	768.0	708.8	667.8	655.7	669.4
72.5°	710.3	749.8	740.7	736.2	719.5	693.7	645.1	587.4	538.8	508.5	514.5
75°	535.8	567.7	572.2	573.7	555.5	531.2	481.2	432.6	390.1	358.2	365.8
77.5°	308.1	326.3	330.9	335.4	321.8	312.7	279.3	244.4	221.6	188.2	197.3
80°	171.5	179.1	179.1	180.6	173.0	162.4	139.6	119.9	109.3	94.1	95.6
82.5°	103.2	106.2	107.8	109.3	104.7	94.1	77.4	63.7	57.7	50.1	48.6
85°	50.1	53.1	53.1	54.6	47.1	41.0	31.9	24.3	21.2	15.2	16.7
87.5°	12.1	13.7	13.7	12.1	10.6	7.6	4.6	1.5	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)