

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: P640033

Luminaire Tested: GWS-SA5D-722-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640033
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-SA5D-722-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY 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: 19474.9 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

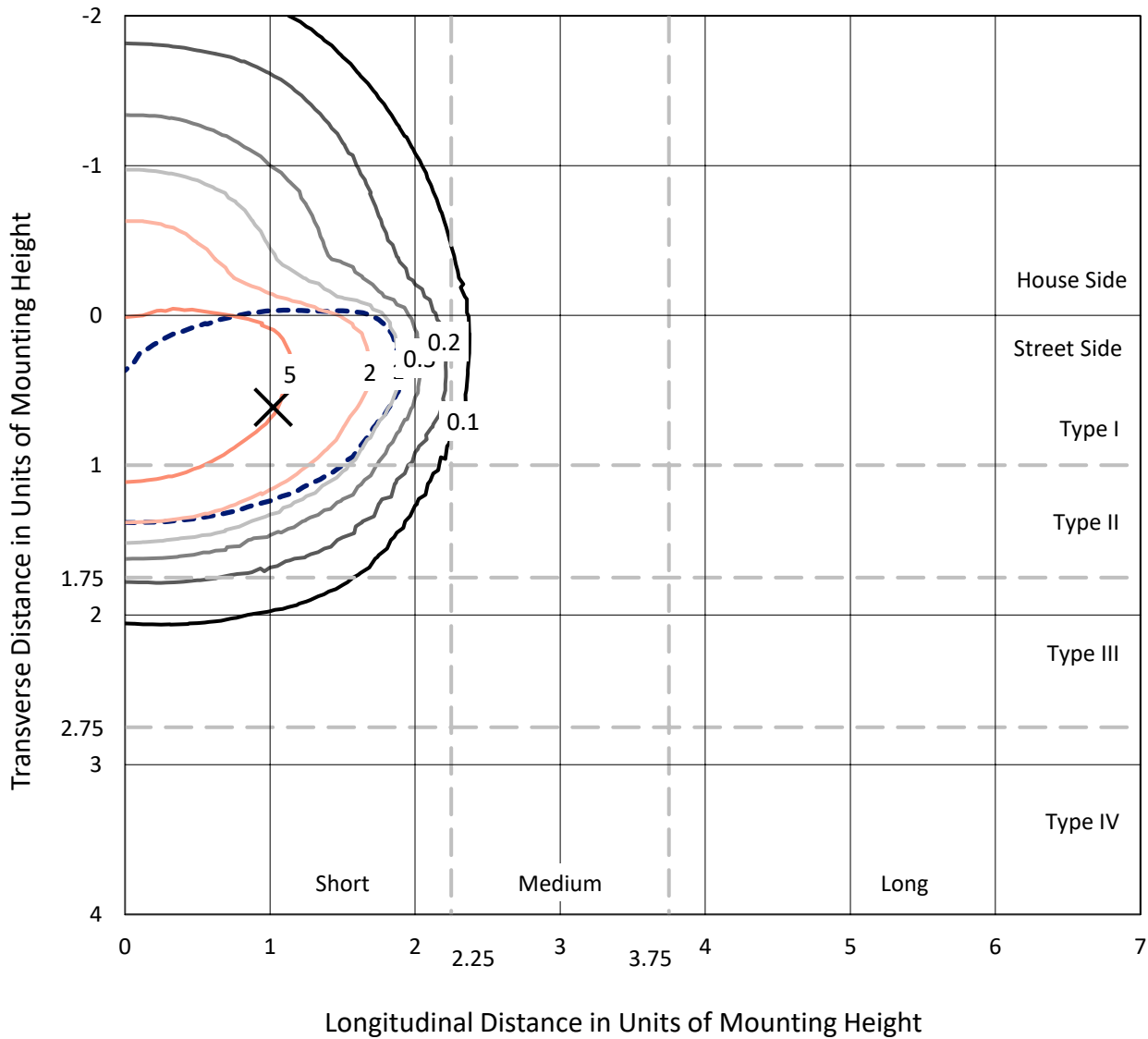
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

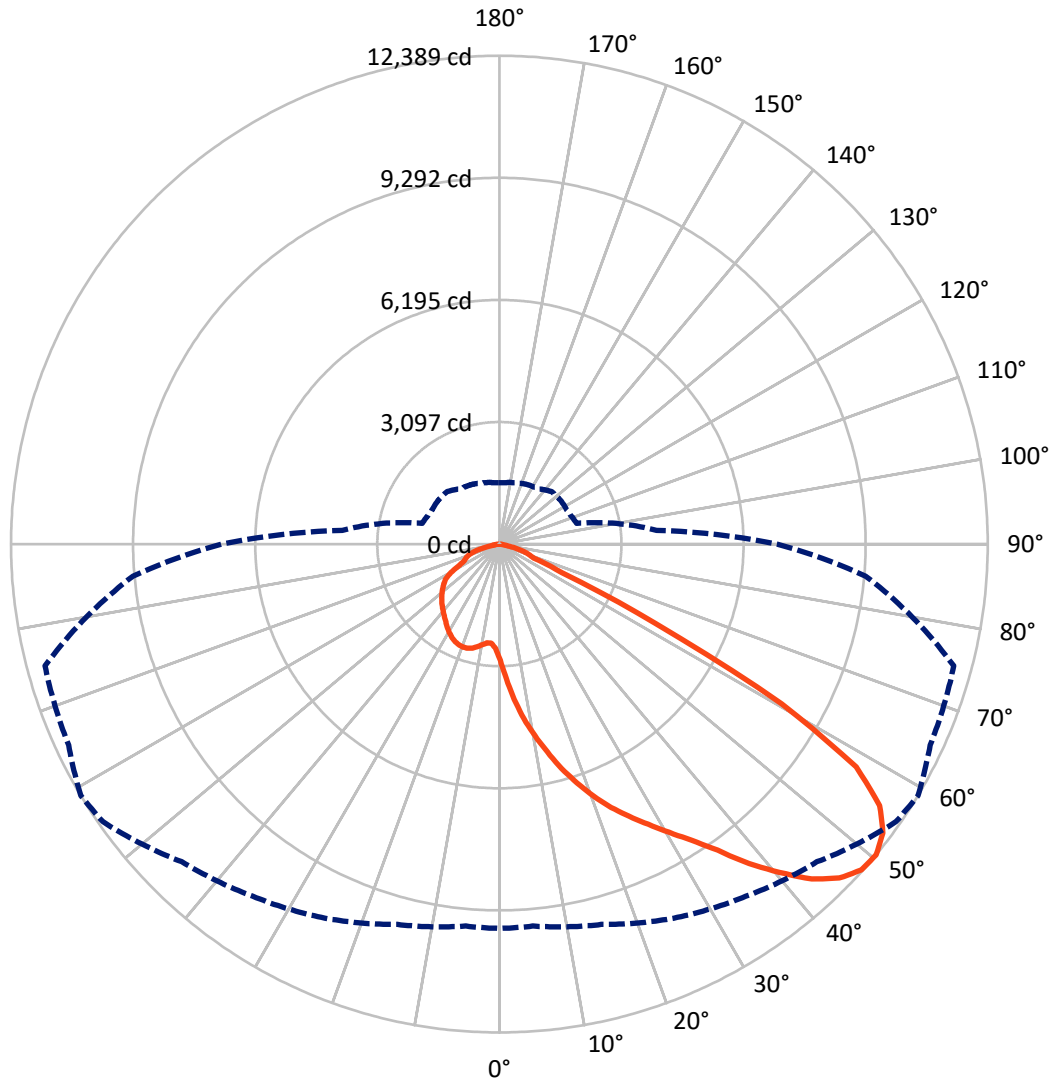
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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	4479.6	0.0	4479.6
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	14995.3	0.0	14995.3
	% Fixture	77.0	0.0	77.0
Total	Lumens	19474.9	0.0	19474.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.0	1.7
10°-20°	1201.6	6.2
20°-30°	2275.3	11.7
30°-40°	3773.3	19.4
40°-50°	5154.5	26.5
50°-60°	4678.9	24.0
60°-70°	1558.1	8.0
70°-80°	454.4	2.3
80°-90°	47.7	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°	19474.9	100.0
0°-180°	19474.9	100.0

Coefficient of Utilization



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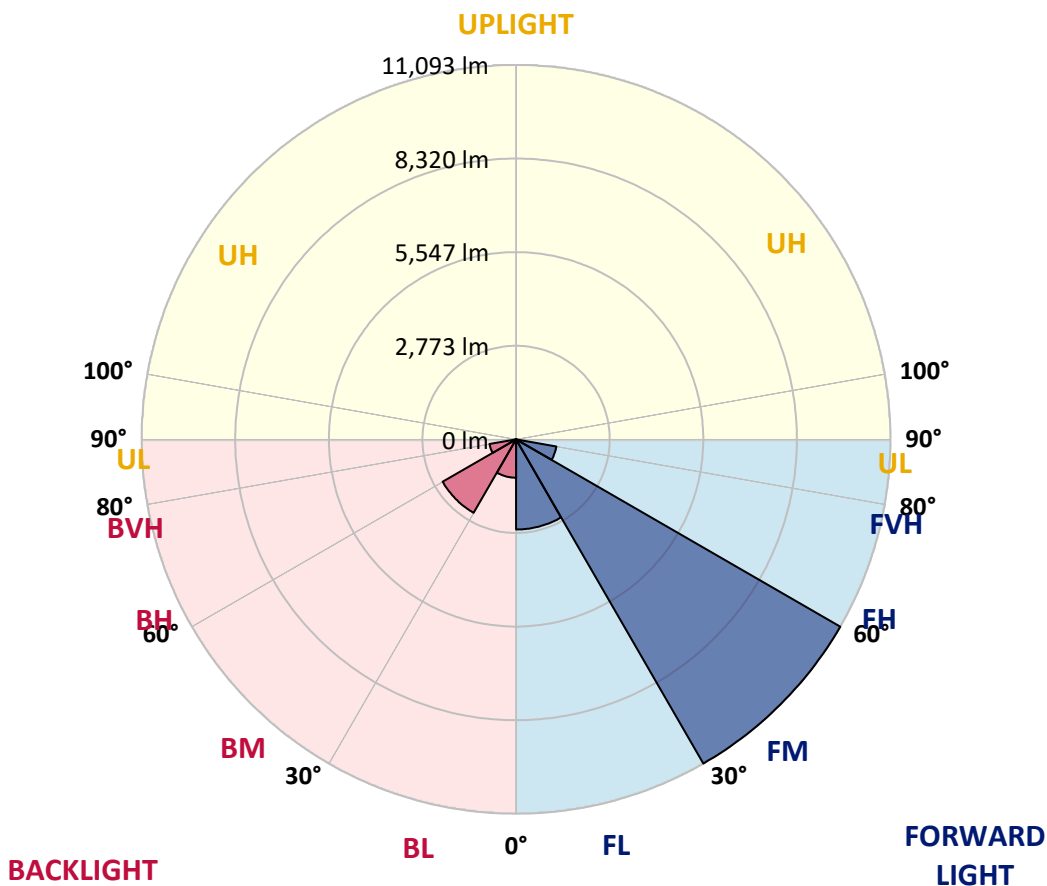
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2670.5	13.7			
FM (30°-60°)	11093.1	57.0			
FH (60°-80°)	1213.0	6.2			G1/1800
FVH (80°-90°)	18.7	0.1			G1/100
BL (0°-30°)	1137.5	5.8	B3/2500		
BM (30°-60°)	2513.5	12.9	B3/5000		
BH (60°-80°)	799.6	4.1	B2/1000		G2/1000
BVH (80°-90°)	29.1	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°	2950.6	2950.6	2950.6	2950.6	2950.6	2950.6	2950.6	2950.6	2950.6	2950.6	2950.6
2.5°	3823.1	3851.6	3807.2	3810.4	3699.3	3648.6	3505.8	3421.7	3366.2	3210.7	3069.6
5°	4594.0	4560.7	4525.8	4505.2	4408.4	4272.0	4094.3	3953.1	3823.1	3518.5	3225.0
7.5°	5066.8	5049.3	5025.5	5012.8	4917.6	4774.9	4597.2	4476.6	4287.9	3875.4	3413.8
10°	5468.1	5447.5	5433.2	5442.7	5365.0	5273.0	5079.4	4941.4	4728.9	4253.0	3642.2
12.5°	5779.0	5790.1	5794.9	5845.6	5812.3	5756.8	5556.9	5411.0	5174.6	4651.1	3910.3
15°	6024.9	6021.7	6077.3	6174.0	6228.0	6193.1	6032.8	5910.7	5622.0	5043.0	4199.0
17.5°	6082.0	6085.2	6172.4	6342.2	6518.3	6603.9	6513.5	6367.6	6082.0	5430.0	4498.8
20°	6128.0	6134.4	6224.8	6418.3	6675.3	6914.8	6929.1	6824.4	6578.5	5848.8	4803.4
22.5°	6418.3	6432.6	6456.4	6578.5	6810.1	7113.1	7279.7	7257.5	7051.3	6288.2	5131.8
25°	7181.3	7138.5	7022.7	6987.8	7076.6	7322.5	7606.5	7649.3	7547.8	6772.1	5485.6
27.5°	8123.6	8077.6	7906.3	7725.5	7533.5	7619.2	7922.2	8050.7	8052.2	7305.1	5840.9
30°	8978.7	8942.2	8802.6	8544.0	8212.5	8088.7	8312.4	8485.3	8588.4	7920.6	6245.4
32.5°	9710.0	9676.6	9487.9	9276.9	8953.3	8704.2	8785.1	8951.7	9192.8	8716.9	6748.3
35°	10325.5	10292.1	10111.3	9898.7	9598.9	9449.8	9421.2	9535.5	9848.0	9548.2	7325.7
37.5°	10825.2	10791.8	10603.1	10403.2	10174.8	10184.3	10227.1	10282.6	10461.9	10438.1	7942.8
40°	11148.8	11113.9	10979.0	10836.3	10691.9	10806.1	11018.7	10952.1	11047.2	11156.7	8510.7
42.5°	11293.1	11248.7	11171.0	11139.3	11094.8	11272.5	11681.8	11615.2	11500.9	11635.8	8932.7
45°	11148.8	11110.7	11109.1	11205.9	11309.0	11537.4	12140.2	12086.3	11797.6	11867.4	9184.9
47.5°	10706.2	10672.9	10763.3	11017.1	11270.9	11604.0	12344.9	12354.4	12008.6	11964.1	9348.3
50°	9749.6	9727.4	9989.2	10469.8	10907.6	11396.2	12279.8	12389.3	12059.3	11934.0	9327.7
52.5°	7804.8	7907.9	8477.4	9280.1	10130.3	11031.4	12038.7	12181.5	11815.0	11735.7	9216.6
55°	5342.8	5390.4	5959.9	7132.2	8480.6	10241.4	11485.1	11705.6	11526.3	11702.4	9332.4
57.5°	2766.6	2804.6	3253.6	4294.2	5752.1	8093.5	9947.9	10671.3	10944.1	11870.6	9692.5
60°	1135.8	1167.5	1353.1	1856.0	2901.4	4713.0	7159.1	8231.5	8872.4	10841.0	8607.5
62.5°	824.9	840.8	929.6	1107.3	1519.7	2309.7	4051.5	4446.5	4897.0	6794.3	5464.9
65°	694.8	712.3	783.7	891.5	1108.8	1416.6	1730.7	1740.2	1917.9	2768.2	2025.8
67.5°	582.2	598.0	661.5	753.5	896.3	1005.7	929.6	931.2	928.0	1004.2	970.8
70°	453.7	466.4	529.8	628.2	702.7	645.6	726.5	804.3	771.0	801.1	847.1
72.5°	331.5	345.8	401.3	475.9	456.9	460.0	588.5	667.8	648.8	682.1	725.0
75°	239.5	249.1	277.6	238.0	250.6	303.0	414.0	456.9	475.9	504.5	542.5
77.5°	77.7	77.7	87.2	109.5	136.4	168.2	211.0	228.4	257.0	288.7	315.7
80°	39.7	41.2	49.2	60.3	76.1	96.8	123.7	131.7	145.9	163.4	174.5
82.5°	19.0	20.6	23.8	30.1	39.7	50.8	68.2	76.1	85.7	96.8	104.7
85°	4.8	4.8	6.3	9.5	12.7	19.0	25.4	30.1	38.1	46.0	50.8
87.5°	0.0	0.0	0.0	0.0	0.0	1.6	4.8	6.3	7.9	9.5	12.7
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°	2950.6	2950.6	2950.6	2950.6	2950.6	2950.6	2950.6	2950.6	2950.6	2950.6	2950.6
2.5°	3006.1	2917.3	2803.1	2706.3	2617.5	2549.2	2490.5	2462.0	2435.0	2416.0	2422.3
5°	3088.6	2936.3	2723.7	2576.2	2485.8	2439.8	2408.1	2392.2	2389.0	2376.3	2371.6
7.5°	3209.2	2991.8	2707.9	2558.8	2498.5	2474.7	2457.2	2447.7	2452.5	2439.8	2435.0
10°	3358.3	3083.8	2747.5	2615.9	2563.5	2546.1	2527.0	2514.3	2508.0	2489.0	2485.8
12.5°	3543.9	3198.1	2818.9	2688.8	2636.5	2606.4	2581.0	2558.8	2544.5	2520.7	2514.3
15°	3743.8	3325.0	2903.0	2760.2	2698.4	2653.9	2612.7	2579.4	2554.0	2522.3	2517.5
17.5°	3961.1	3458.2	2972.8	2809.4	2730.1	2671.4	2611.1	2561.9	2527.0	2485.8	2481.0
20°	4187.9	3593.1	3025.1	2833.2	2731.7	2652.4	2571.5	2506.4	2462.0	2420.7	2417.6
22.5°	4422.7	3716.8	3056.9	2826.9	2706.3	2607.9	2511.2	2438.2	2385.8	2336.7	2333.5
25°	4659.1	3835.8	3064.8	2801.5	2655.5	2541.3	2444.5	2358.9	2300.2	2244.7	2238.3
27.5°	4898.6	3935.7	3045.8	2750.7	2587.3	2463.6	2366.8	2282.7	2222.5	2166.9	2157.4
30°	5154.0	4021.4	3004.5	2684.1	2508.0	2381.1	2285.9	2222.5	2165.3	2109.8	2100.3
32.5°	5426.9	4095.9	2945.8	2603.2	2416.0	2298.6	2228.8	2171.7	2114.6	2065.4	2055.9
35°	5752.1	4145.1	2858.6	2498.5	2330.3	2238.3	2190.7	2124.1	2054.3	2000.4	1995.6
37.5°	6088.4	4183.2	2753.9	2398.5	2255.8	2203.4	2163.8	2073.3	1986.1	1921.1	1913.1
40°	6413.6	4214.9	2623.8	2304.9	2187.6	2178.0	2124.1	2011.5	1860.8	1787.8	1781.5
42.5°	6716.5	4224.4	2487.4	2205.0	2125.7	2120.9	2060.7	1886.2	1770.4	1724.3	1718.0
45°	6924.4	4216.5	2346.2	2111.4	2063.8	2038.4	1975.0	1795.7	1724.3	1683.1	1675.2
47.5°	7078.2	4175.2	2187.6	2013.1	1994.0	1959.1	1822.7	1738.6	1672.0	1630.8	1622.8
50°	7051.3	4003.9	2027.3	1917.9	1909.9	1879.8	1711.7	1667.2	1608.5	1564.1	1557.8
52.5°	6911.7	3678.7	1863.9	1813.2	1829.0	1770.4	1632.3	1581.6	1530.8	1480.1	1468.9
55°	6946.6	3443.9	1740.2	1711.7	1740.2	1607.0	1543.5	1489.6	1442.0	1392.8	1383.3
57.5°	7098.9	3212.3	1608.5	1602.2	1632.3	1481.6	1429.3	1361.1	1292.9	1253.2	1253.2
60°	5961.5	2341.4	1376.9	1392.8	1461.0	1380.1	1334.1	1264.3	1189.8	1154.9	1154.9
62.5°	3524.8	1468.9	1142.2	1124.7	1167.5	1218.3	1243.7	1186.6	1097.7	1051.7	1053.3
65°	1553.0	1069.2	1007.3	993.0	980.4	1015.3	1085.1	1089.8	996.2	942.3	943.9
67.5°	956.6	967.7	942.3	931.2	920.1	913.7	907.4	910.6	885.2	836.0	834.4
70°	863.0	893.1	875.7	866.1	851.9	840.8	802.7	740.8	698.0	685.3	699.6
72.5°	742.4	783.7	774.1	769.4	751.9	725.0	674.2	613.9	563.1	531.4	537.8
75°	560.0	593.3	598.0	599.6	580.6	555.2	502.9	452.1	407.7	374.4	382.3
77.5°	322.0	341.1	345.8	350.6	336.3	326.8	291.9	255.4	231.6	196.7	206.2
80°	179.3	187.2	187.2	188.8	180.8	169.7	145.9	125.3	114.2	98.4	99.9
82.5°	107.9	111.0	112.6	114.2	109.5	98.4	80.9	66.6	60.3	52.3	50.8
85°	52.3	55.5	55.5	57.1	49.2	42.8	33.3	25.4	22.2	15.9	17.4
87.5°	12.7	14.3	14.3	12.7	11.1	7.9	4.8	1.6	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)