

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: P642726

Luminaire Tested: GWS-SA6D-740-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-740-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35540.5 lumens
Efficiency: N/A
Efficacy: 144.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

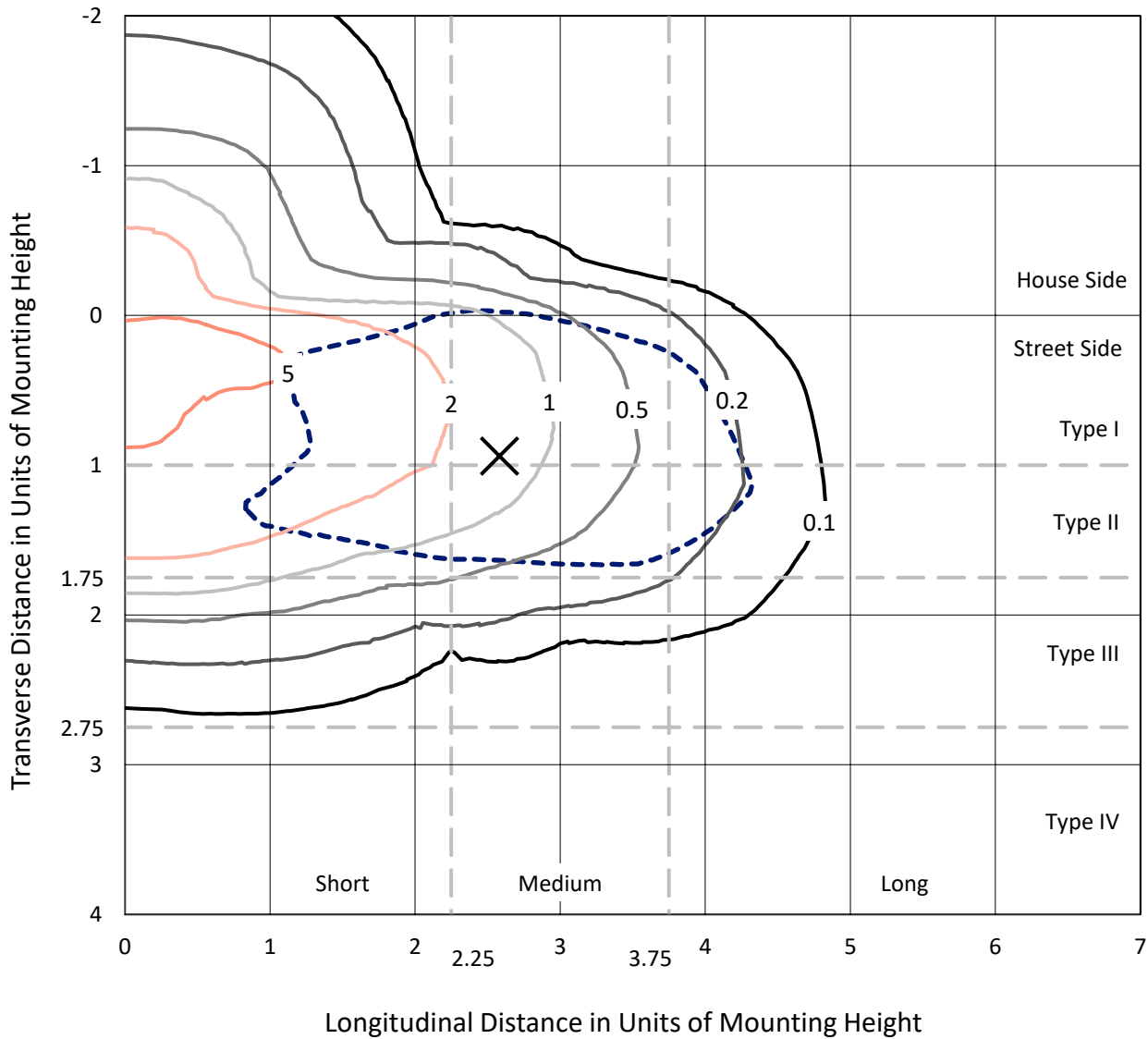
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P642726
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Iso-Footcandle Lines of Horizontal Illumination

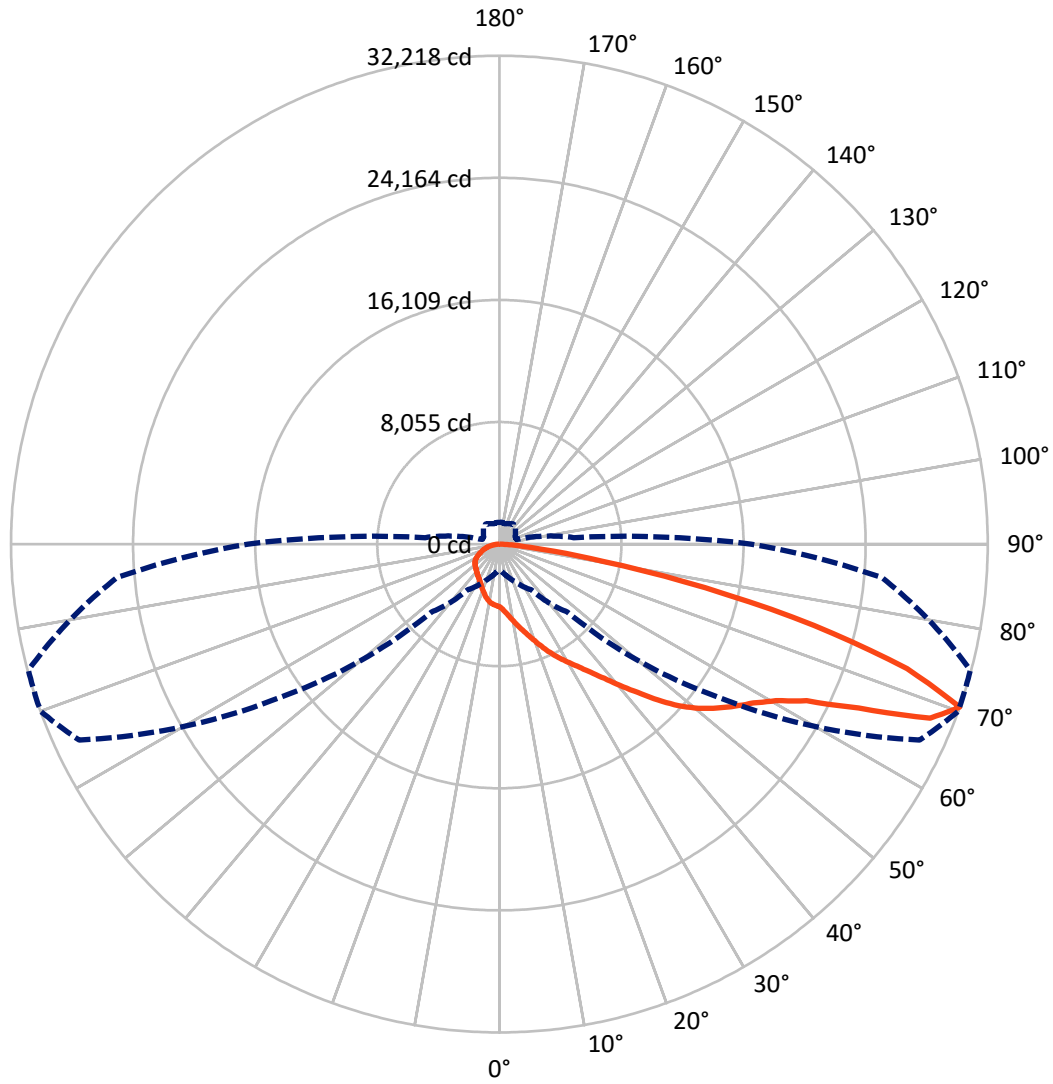
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Medium - N/A

REPORT NUMBER: P642726
CATALOG NUMBER: GWS-SA6D-740-U-T2-W

Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6368.9	0.0	6368.9
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	29171.6	0.0	29171.6
	% Fixture	82.1	0.0	82.1
Total	Lumens	35540.5	0.0	35540.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.3	1.2
10°-20°	1370.4	3.9
20°-30°	2427.7	6.8
30°-40°	3653.7	10.3
40°-50°	5527.6	15.6
50°-60°	7918.6	22.3
60°-70°	8753.2	24.6
70°-80°	4939.6	13.9
80°-90°	528.4	1.5
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°	35540.5	100.0
0°-180°	35540.5	100.0

Coefficient of Utilization



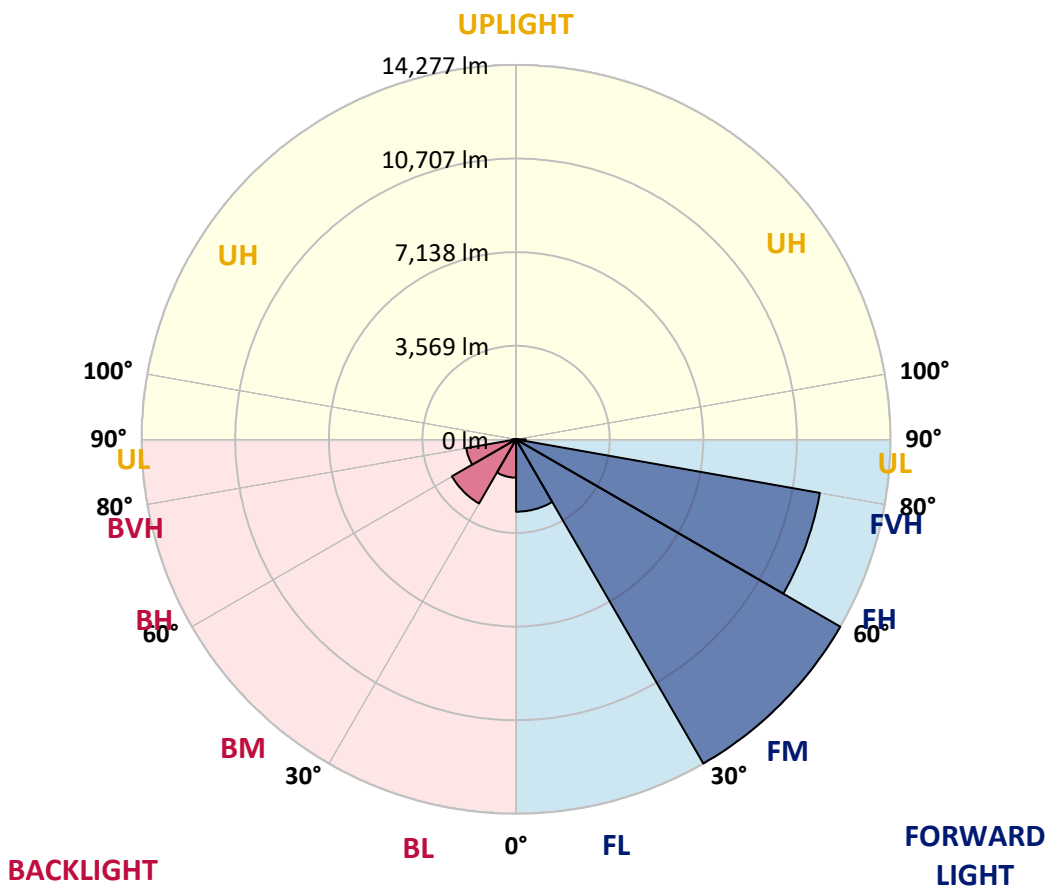
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2759.0	7.8			
FM (30°-60°)	14276.6	40.2			
FH (60°-80°)	11762.4	33.1			G4/12000
FVH (80°-90°)	373.5	1.1			G3/500
BL (0°-30°)	1460.3	4.1	B3/2500		
BM (30°-60°)	2823.4	7.9	B3/5000		
BH (60°-80°)	1930.4	5.4	B3/2500		G3/2500
BVH (80°-90°)	154.9	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	4144.8	4144.8	4144.8	4144.8	4144.8	4144.8	4144.8	4144.8	4144.8	4144.8	4144.8
2.5°	4591.6	4583.9	4589.0	4583.9	4555.6	4486.3	4429.8	4357.9	4309.1	4280.9	4214.1
5°	5130.9	5123.2	5105.2	5079.5	5028.2	4933.1	4791.9	4635.2	4540.2	4468.3	4327.1
7.5°	5518.6	5518.6	5516.1	5485.3	5449.3	5349.2	5182.2	4976.8	4838.1	4714.9	4483.7
10°	5716.4	5729.2	5747.2	5790.8	5783.1	5729.2	5572.6	5351.7	5177.1	5033.3	4689.2
12.5°	5824.2	5831.9	5862.8	5952.6	6045.1	6057.9	5965.5	5734.4	5544.3	5351.7	4917.7
15°	5962.9	5965.5	6006.6	6114.4	6250.5	6386.6	6363.5	6132.4	5937.2	5724.1	5172.0
17.5°	6070.8	6088.7	6163.2	6289.0	6458.5	6646.0	6759.0	6615.2	6373.8	6129.8	5449.3
20°	6109.3	6122.1	6219.7	6412.3	6643.4	6907.9	7159.6	7121.1	6877.1	6589.5	5762.6
22.5°	6248.0	6248.0	6319.9	6481.6	6753.9	7139.1	7547.4	7647.5	7431.8	7095.4	6099.0
25°	6553.5	6543.3	6576.7	6643.4	6848.9	7323.9	7930.0	8230.5	7989.1	7611.6	6435.4
27.5°	6972.1	6967.0	6964.4	6974.7	7044.0	7485.7	8253.6	8774.9	8533.5	8107.2	6735.9
30°	7426.7	7411.3	7444.6	7413.8	7398.4	7678.3	8528.3	9262.8	9075.3	8597.7	6985.0
32.5°	8045.6	8017.3	8009.6	7909.5	7847.8	7978.8	8749.2	9817.5	9668.5	9126.7	7264.9
35°	8862.2	8836.5	8705.5	8546.3	8364.0	8425.6	9024.0	10359.3	10369.6	9789.2	7632.1
37.5°	9686.5	9691.6	9588.9	9214.0	9026.5	8990.6	9442.6	11019.3	11240.2	10580.2	8107.2
40°	10372.2	10403.0	10403.0	10007.5	9727.6	9694.2	10030.6	11802.5	12241.7	11550.9	8708.1
42.5°	10893.5	10921.7	11011.6	10726.6	10431.2	10546.8	10744.5	12588.4	13376.7	12750.1	9468.2
45°	11466.1	11489.2	11538.0	11373.7	11201.6	11509.8	11553.4	13528.2	14676.1	14095.8	10351.6
47.5°	12226.3	12205.7	12210.9	12090.2	11956.6	12454.8	12444.5	14319.2	15931.9	15569.8	11309.5
50°	13171.3	13209.8	13173.9	12935.0	12778.4	13232.9	13292.0	15194.9	17036.1	17028.4	12275.1
52.5°	14080.4	14095.8	14285.8	14296.1	13975.1	13880.1	14034.1	16078.3	17968.3	18363.8	13202.1
55°	14126.6	14185.7	14755.8	15166.6	15685.4	14922.7	14784.0	16920.6	18869.7	19670.9	14165.1
57.5°	13143.0	13238.1	14206.2	15092.2	16535.4	16712.6	16068.0	18009.4	19771.1	20957.5	15279.6
60°	11042.4	11240.2	12555.0	13910.9	16152.7	17999.1	18695.1	19488.6	20954.9	22272.3	16633.0
62.5°	7051.7	7128.8	8972.6	11242.7	14429.6	17873.3	21555.8	22095.1	22757.7	23985.2	18718.2
65°	3531.0	3777.5	4858.7	6710.2	10405.6	15749.6	23001.6	26869.0	26057.5	26917.8	22097.7
67.5°	2395.9	2475.6	3022.5	4031.8	6101.6	11158.0	22105.4	30890.5	30651.7	30792.9	25700.6
70°	1766.8	1818.1	2249.6	2855.6	3690.2	6335.3	17598.5	30587.5	32218.2	32166.8	25323.1
72.5°	1289.1	1314.8	1641.0	2180.2	2734.9	3276.8	10747.1	24709.3	28124.8	29606.5	22146.5
75°	937.3	968.1	1140.2	1630.7	2126.3	2044.1	5305.5	17847.6	21448.0	24298.5	18042.8
77.5°	698.5	737.0	816.6	1022.1	1489.4	1463.8	2293.2	11589.4	13872.4	15870.3	10960.2
80°	503.3	511.0	557.3	654.8	945.0	857.7	1091.4	6042.5	6928.5	7591.0	4296.3
82.5°	305.6	313.3	372.4	403.2	585.5	539.3	567.5	1956.8	2804.3	2976.3	1605.0
85°	89.9	95.0	169.5	184.9	244.0	231.1	228.6	796.1	950.2	1214.7	631.7
87.5°	0.0	0.0	0.0	0.0	2.6	15.4	28.2	141.2	213.1	295.3	154.1
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°	4144.8	4144.8	4144.8	4144.8	4144.8	4144.8	4144.8	4144.8	4144.8	4144.8	4144.8
2.5°	4188.4	4129.4	4098.5	4044.6	4006.1	3967.6	3929.0	3893.1	3877.7	3854.6	3859.7
5°	4262.9	4170.4	4078.0	3972.7	3882.8	3808.3	3741.6	3682.5	3656.8	3633.7	3644.0
7.5°	4375.9	4237.2	4060.0	3867.4	3726.2	3623.5	3554.1	3513.0	3500.2	3482.2	3482.2
10°	4519.7	4311.7	4001.0	3726.2	3556.7	3474.5	3443.7	3441.1	3454.0	3456.5	3451.4
12.5°	4678.9	4383.6	3913.6	3559.3	3415.4	3389.8	3412.9	3456.5	3500.2	3523.3	3518.2
15°	4843.3	4429.8	3764.7	3400.0	3312.7	3346.1	3420.6	3507.9	3592.6	3636.3	3633.7
17.5°	4997.3	4440.1	3572.1	3246.0	3222.8	3307.6	3436.0	3572.1	3687.7	3749.3	3751.9
20°	5169.4	4422.1	3374.4	3107.3	3133.0	3271.6	3441.1	3605.5	3741.6	3803.2	3818.6
22.5°	5326.0	4360.5	3181.8	2976.3	3055.9	3228.0	3400.0	3554.1	3674.8	3733.9	3754.4
25°	5467.3	4242.3	2971.2	2865.9	2996.9	3166.3	3297.3	3405.2	3489.9	3525.9	3554.1
27.5°	5544.3	4065.2	2812.0	2778.6	2940.4	3079.0	3150.9	3184.3	3212.6	3202.3	3222.8
30°	5559.7	3844.3	2673.3	2709.2	2855.6	2958.3	2973.7	2940.4	2891.6	2812.0	2829.9
32.5°	5544.3	3590.1	2557.7	2634.8	2760.6	2822.2	2801.7	2714.4	2596.3	2473.0	2480.7
35°	5549.5	3333.3	2462.7	2552.6	2650.2	2683.6	2632.2	2511.5	2385.7	2272.7	2267.5
37.5°	5606.0	3117.6	2383.1	2473.0	2542.3	2547.5	2491.0	2365.1	2300.9	2216.2	2205.9
40°	5762.6	2958.3	2311.2	2393.4	2437.0	2434.5	2370.3	2280.4	2324.0	2295.8	2288.1
42.5°	6019.4	2860.8	2252.1	2308.6	2339.5	2344.6	2293.2	2236.7	2331.7	2295.8	2283.0
45°	6432.8	2855.6	2211.1	2223.9	2272.7	2308.6	2272.7	2208.5	2244.4	2069.8	2036.4
47.5°	6923.3	2942.9	2180.2	2149.4	2234.2	2298.4	2241.9	2139.1	2064.7	1905.5	1882.3
50°	7514.0	3120.1	2152.0	2069.8	2177.7	2259.8	2203.3	2062.1	1949.1	1864.4	1851.5
52.5°	8215.0	3353.8	2116.0	1979.9	2092.9	2239.3	2203.3	2054.4	1905.5	1828.4	1815.6
55°	8949.5	3623.5	2074.9	1872.1	1997.9	2244.4	2221.3	2000.5	1872.1	1831.0	1820.7
57.5°	9861.1	3947.0	2000.5	1746.2	1913.2	2198.2	2149.4	1969.7	1849.0	1815.6	1805.3
60°	11045.0	4427.2	1859.2	1617.8	1815.6	2116.0	2085.2	1918.3	1787.3	1759.1	1751.4
62.5°	12919.6	5241.3	1687.2	1494.6	1700.0	1944.0	1990.2	1820.7	1710.3	1707.7	1705.2
65°	15975.6	6219.7	1484.3	1384.2	1579.3	1802.7	1864.4	1720.6	1630.7	1658.9	1656.4
67.5°	18117.3	6304.4	1317.4	1268.6	1438.1	1648.7	1738.5	1617.8	1520.3	1574.2	1571.6
70°	16594.4	4917.7	1173.6	1147.9	1286.6	1481.7	1602.4	1489.4	1391.9	1443.2	1432.9
72.5°	13995.6	3769.8	1037.5	1022.1	1132.5	1307.1	1427.8	1361.0	1258.3	1258.3	1235.2
75°	11247.9	3109.9	893.7	886.0	960.4	1129.9	1266.0	1153.0	1058.0	1052.9	1037.5
77.5°	6450.8	2039.0	749.9	744.7	767.8	945.0	983.5	960.4	888.5	855.1	844.9
80°	2570.6	1060.6	590.6	557.3	580.4	693.4	775.5	737.0	675.4	634.3	611.2
82.5°	996.4	531.6	416.0	364.7	398.0	500.8	562.4	549.6	508.5	416.0	390.3
85°	405.7	259.4	249.1	210.6	231.1	269.6	323.6	279.9	231.1	164.4	156.6
87.5°	107.9	95.0	92.4	56.5	43.7	12.8	2.6	0.0	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)