

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: P643718

Luminaire Tested: GWS-SA6F-740-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643718
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-SA6F-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: 43802.8 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

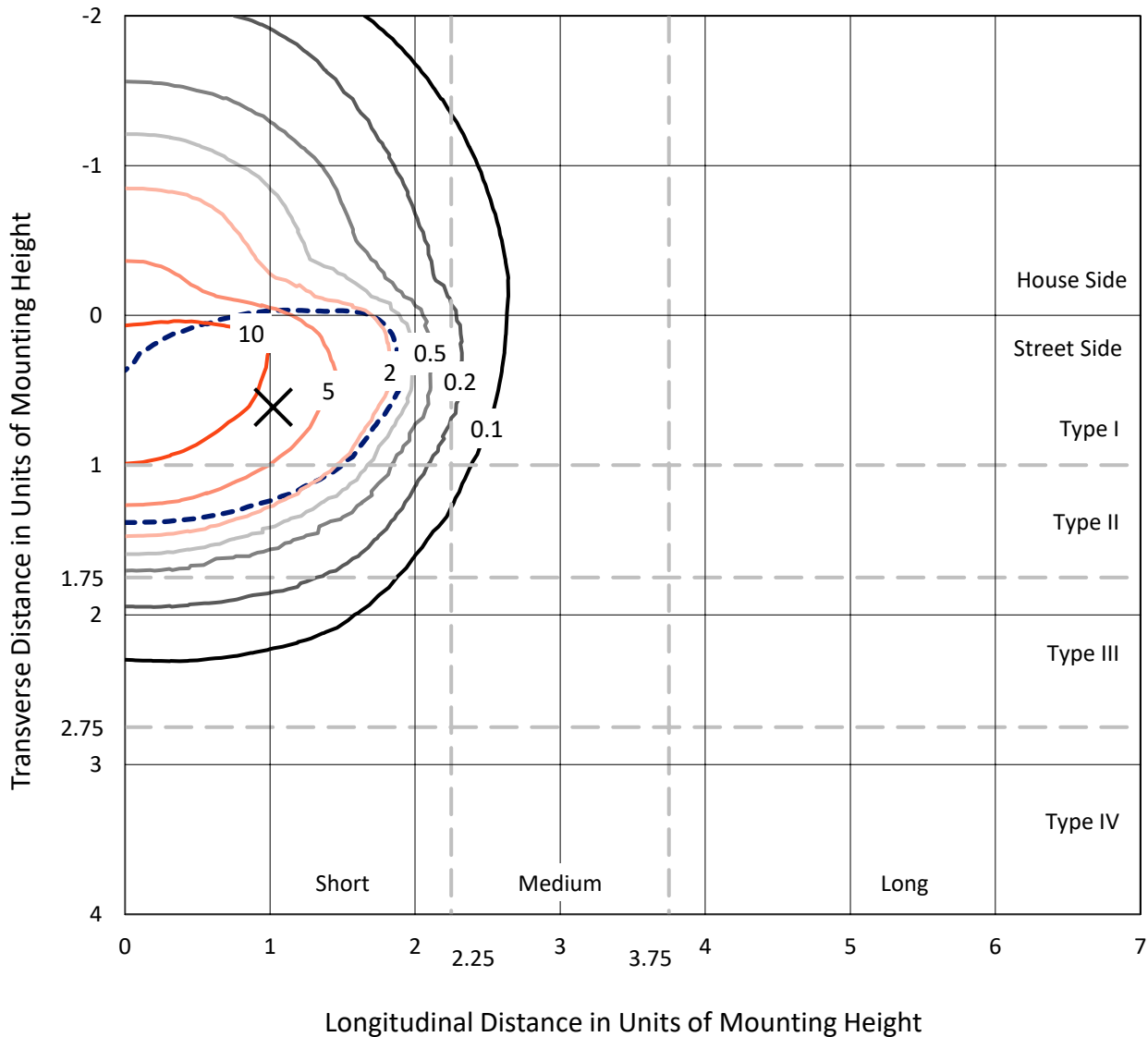
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

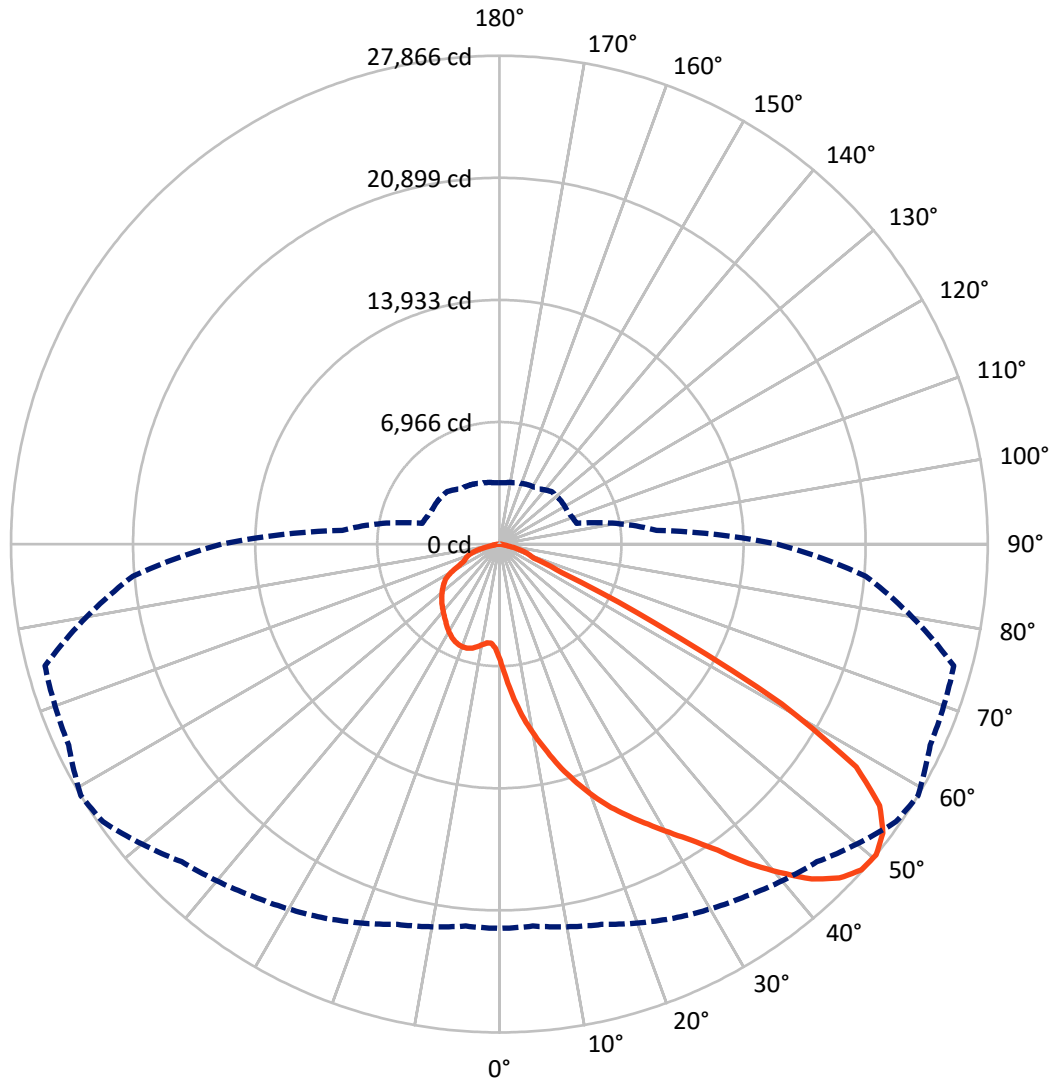
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.6 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	10075.5	0.0	10075.5
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	33727.3	0.0	33727.3
	% Fixture	77.0	0.0	77.0
Total	Lumens	43802.8	0.0	43802.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	744.5	1.7
10°-20°	2702.7	6.2
20°-30°	5117.7	11.7
30°-40°	8486.8	19.4
40°-50°	11593.4	26.5
50°-60°	10523.8	24.0
60°-70°	3504.5	8.0
70°-80°	1022.1	2.3
80°-90°	107.4	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°	43802.8	100.0
0°-180°	43802.8	100.0

Coefficient of Utilization



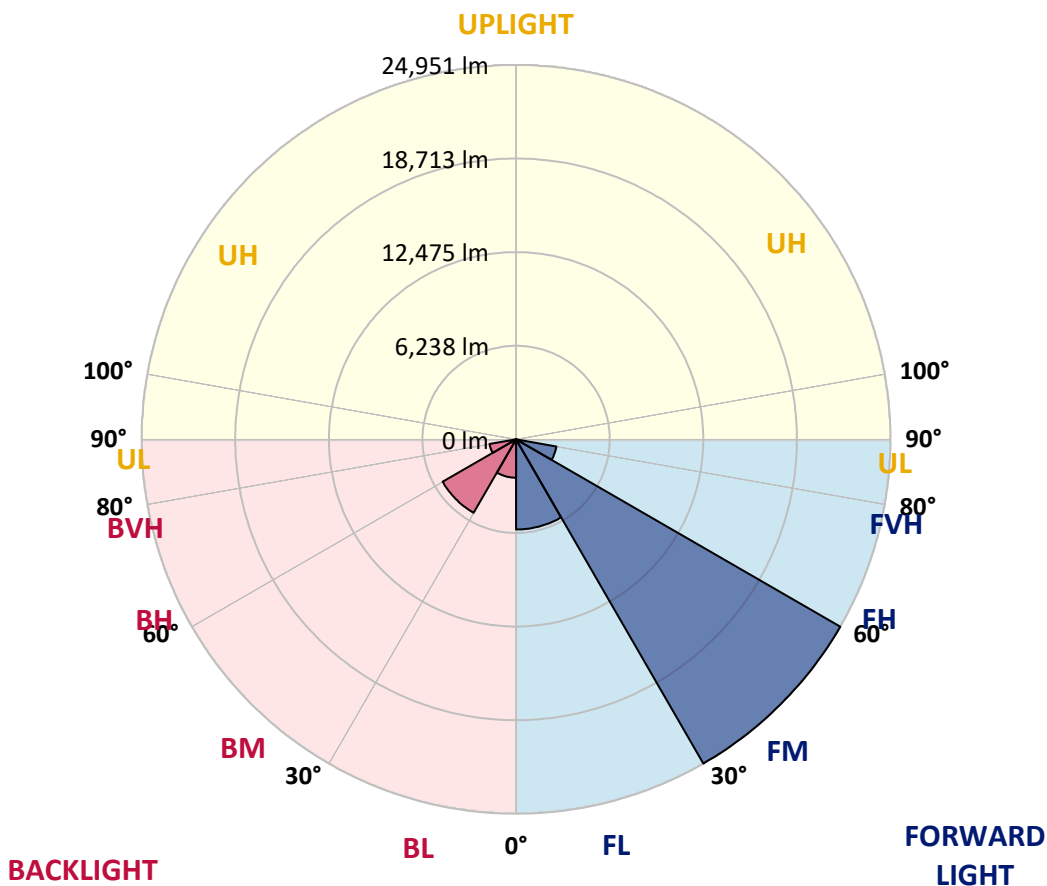
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6006.4	13.7			
FM (30°-60°)	24950.6	57.0			
FH (60°-80°)	2728.3	6.2			G2/5000
FVH (80°-90°)	42.0	0.1			G1/100
BL (0°-30°)	2558.4	5.8	B4/5000		
BM (30°-60°)	5653.3	12.9	B4/8500		
BH (60°-80°)	1798.4	4.1	B3/2500		G3/2500
BVH (80°-90°)	65.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6636.4	6636.4	6636.4	6636.4	6636.4	6636.4	6636.4	6636.4	6636.4	6636.4	6636.4
2.5°	8598.8	8663.0	8563.1	8570.3	8320.5	8206.3	7885.2	7696.1	7571.2	7221.6	6904.0
5°	10332.9	10257.9	10179.4	10133.0	9915.4	9608.6	9208.9	8891.4	8598.8	7913.8	7253.7
7.5°	11396.1	11356.9	11303.3	11274.8	11060.7	10739.6	10340.0	10068.8	9644.2	8716.6	7678.3
10°	12298.8	12252.4	12220.3	12241.7	12066.9	11859.9	11424.7	11114.2	10636.1	9565.7	8192.1
12.5°	12998.1	13023.1	13033.8	13148.0	13073.1	12948.2	12498.6	12170.4	11638.7	10461.3	8795.1
15°	13551.2	13544.0	13668.9	13886.6	14007.9	13929.4	13569.0	13294.3	12644.9	11342.6	9444.4
17.5°	13679.6	13686.8	13883.0	14264.8	14660.8	14853.5	14650.1	14321.9	13679.6	12213.2	10118.8
20°	13783.1	13797.4	14000.7	14436.0	15014.0	15552.8	15584.9	15349.4	14796.4	13155.1	10803.8
22.5°	14436.0	14468.1	14521.7	14796.4	15317.3	15998.8	16373.4	16323.5	15859.6	14143.5	11542.4
25°	16152.2	16055.9	15795.4	15716.9	15916.7	16469.8	17108.4	17204.8	16976.4	15231.7	12338.1
27.5°	18271.6	18168.1	17782.8	17376.0	16944.3	17137.0	17818.5	18107.5	18111.0	16430.5	13137.3
30°	20194.7	20112.7	19798.7	19217.1	18471.4	18193.1	18696.2	19085.1	19317.0	17814.9	14047.1
32.5°	21839.6	21764.6	21340.1	20865.5	20137.7	19577.5	19759.4	20134.1	20676.4	19606.0	15178.2
35°	23224.0	23149.0	22742.3	22264.2	21589.8	21254.4	21190.2	21447.1	22150.0	21475.6	16476.9
37.5°	24347.9	24272.9	23848.3	23398.8	22885.0	22906.4	23002.7	23127.6	23530.8	23477.3	17864.9
40°	25075.7	24997.2	24694.0	24372.8	24048.2	24305.0	24783.2	24633.3	24847.4	25093.6	19142.2
42.5°	25400.4	25300.5	25125.7	25054.3	24954.4	25354.0	26274.6	26124.7	25867.8	26171.1	20091.3
45°	25075.7	24990.1	24986.5	25204.2	25436.1	25949.9	27305.7	27184.4	26535.0	26692.0	20658.6
47.5°	24080.3	24005.3	24208.7	24779.6	25350.5	26099.7	27766.0	27787.4	27009.6	26909.7	21026.1
50°	21928.8	21878.8	22467.5	23548.6	24533.4	25632.3	27619.7	27865.9	27123.7	26841.9	20979.7
52.5°	17554.4	17786.4	19067.3	20872.7	22785.1	24811.7	27077.4	27398.5	26574.3	26395.9	20729.9
55°	12016.9	12124.0	13404.9	16041.6	19074.4	23034.8	25832.1	26328.1	25924.9	26321.0	20990.4
57.5°	6222.5	6308.2	7317.9	9658.5	12937.5	18203.8	22374.8	24001.8	24615.5	26699.2	21800.3
60°	2554.7	2626.0	3043.5	4174.5	6525.8	10600.5	16102.3	18514.2	19955.7	24383.5	19359.8
62.5°	1855.3	1891.0	2090.8	2490.4	3418.1	5195.0	9112.6	10001.0	11014.3	15281.6	12291.7
65°	1562.8	1602.0	1762.6	2005.2	2494.0	3186.2	3892.7	3914.1	4313.7	6226.1	4556.3
67.5°	1309.4	1345.1	1487.8	1694.8	2015.9	2262.1	2090.8	2094.4	2087.3	2258.5	2183.6
70°	1020.4	1049.0	1191.7	1412.9	1580.6	1452.2	1634.1	1809.0	1734.0	1801.8	1905.3
72.5°	745.7	777.8	902.7	1070.4	1027.6	1034.7	1323.7	1502.1	1459.3	1534.2	1630.6
75°	538.8	560.2	624.4	535.2	563.7	681.5	931.2	1027.6	1070.4	1134.6	1220.2
77.5°	174.8	174.8	196.2	246.2	306.8	378.2	474.5	513.8	578.0	649.4	710.0
80°	89.2	92.8	110.6	135.6	171.3	217.6	278.3	296.1	328.3	367.5	392.5
82.5°	42.8	46.4	53.5	67.8	89.2	114.2	153.4	171.3	192.7	217.6	235.5
85°	10.7	10.7	14.3	21.4	28.5	42.8	57.1	67.8	85.6	103.5	114.2
87.5°	0.0	0.0	0.0	0.0	0.0	3.6	10.7	14.3	17.8	21.4	28.5
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°	6636.4	6636.4	6636.4	6636.4	6636.4	6636.4	6636.4	6636.4	6636.4	6636.4	6636.4
2.5°	6761.3	6561.5	6304.6	6087.0	5887.2	5733.7	5601.7	5537.5	5476.8	5434.0	5448.3
5°	6946.8	6604.3	6126.2	5794.4	5591.0	5487.5	5416.2	5380.5	5373.4	5344.8	5334.1
7.5°	7218.0	6729.2	6090.5	5755.1	5619.6	5566.0	5526.8	5505.4	5516.1	5487.5	5476.8
10°	7553.4	6936.1	6179.7	5883.6	5765.8	5726.6	5683.8	5655.2	5641.0	5598.2	5591.0
12.5°	7970.9	7193.0	6340.3	6047.7	5930.0	5862.2	5805.1	5755.1	5723.0	5669.5	5655.2
15°	8420.4	7478.5	6529.4	6208.3	6069.1	5969.2	5876.5	5801.5	5744.4	5673.1	5662.4
17.5°	8909.2	7778.2	6686.4	6318.9	6140.5	6008.5	5872.9	5762.3	5683.8	5591.0	5580.3
20°	9419.5	8081.5	6804.1	6372.4	6144.1	5965.7	5783.7	5637.4	5537.5	5444.7	5437.6
22.5°	9947.5	8359.8	6875.5	6358.1	6087.0	5865.8	5648.1	5484.0	5366.2	5255.6	5248.5
25°	10479.1	8627.4	6893.3	6301.0	5972.8	5715.9	5498.2	5305.6	5173.6	5048.7	5034.4
27.5°	11017.9	8852.1	6850.5	6186.9	5819.4	5541.1	5323.4	5134.3	4998.7	4873.9	4852.4
30°	11592.4	9044.8	6757.7	6037.0	5641.0	5355.5	5141.5	4998.7	4870.3	4745.4	4724.0
32.5°	12206.0	9212.5	6625.7	5855.0	5434.0	5170.0	5013.0	4884.6	4756.1	4645.5	4624.1
35°	12937.5	9323.1	6429.5	5619.6	5241.4	5034.4	4927.4	4777.5	4620.5	4499.2	4488.5
37.5°	13693.9	9408.8	6194.0	5394.8	5073.7	4955.9	4866.7	4663.3	4467.1	4320.8	4303.0
40°	14425.3	9480.1	5901.4	5184.3	4920.2	4898.8	4777.5	4524.2	4185.2	4021.1	4006.8
42.5°	15106.8	9501.5	5594.6	4959.5	4781.1	4770.4	4634.8	4242.3	3981.9	3878.4	3864.1
45°	15574.2	9483.7	5277.0	4749.0	4641.9	4584.8	4442.1	4038.9	3878.4	3785.6	3767.8
47.5°	15920.3	9390.9	4920.2	4527.8	4484.9	4406.4	4099.6	3910.5	3760.6	3667.9	3650.0
50°	15859.6	9005.6	4559.9	4313.7	4295.8	4228.1	3849.8	3749.9	3617.9	3518.0	3503.8
52.5°	15545.7	8274.1	4192.4	4078.2	4113.9	3981.9	3671.4	3557.3	3443.1	3328.9	3303.9
55°	15624.2	7746.1	3914.1	3849.8	3914.1	3614.4	3471.6	3350.3	3243.3	3132.7	3111.3
57.5°	15966.7	7225.1	3617.9	3603.7	3671.4	3332.5	3214.7	3061.3	2907.9	2818.7	2818.7
60°	13408.5	5266.3	3097.0	3132.7	3286.1	3104.1	3000.7	2843.7	2676.0	2597.5	2597.5
62.5°	7928.0	3303.9	2568.9	2529.7	2626.0	2740.2	2797.3	2668.8	2469.0	2365.6	2369.1
65°	3493.0	2404.8	2265.7	2233.6	2205.0	2283.5	2440.5	2451.2	2240.7	2119.4	2122.9
67.5°	2151.5	2176.5	2119.4	2094.4	2069.4	2055.2	2040.9	2048.0	1990.9	1880.3	1876.8
70°	1941.0	2008.8	1969.5	1948.1	1916.0	1891.0	1805.4	1666.2	1569.9	1541.4	1573.5
72.5°	1669.8	1762.6	1741.2	1730.5	1691.2	1630.6	1516.4	1380.8	1266.6	1195.3	1209.5
75°	1259.5	1334.4	1345.1	1348.7	1305.9	1248.8	1131.0	1016.9	917.0	842.0	859.9
77.5°	724.3	767.1	777.8	788.5	756.4	735.0	656.5	574.4	520.9	442.4	463.8
80°	403.2	421.0	421.0	424.6	406.7	381.8	328.3	281.9	256.9	221.2	224.8
82.5°	242.6	249.8	253.3	256.9	246.2	221.2	182.0	149.9	135.6	117.7	114.2
85°	117.7	124.9	124.9	128.4	110.6	96.3	74.9	57.1	50.0	35.7	39.2
87.5°	28.5	32.1	32.1	28.5	25.0	17.8	10.7	3.6	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)