

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: P643168

Luminaire Tested: GWS-SA6E-735-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643168
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-SAGE-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38857.5 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

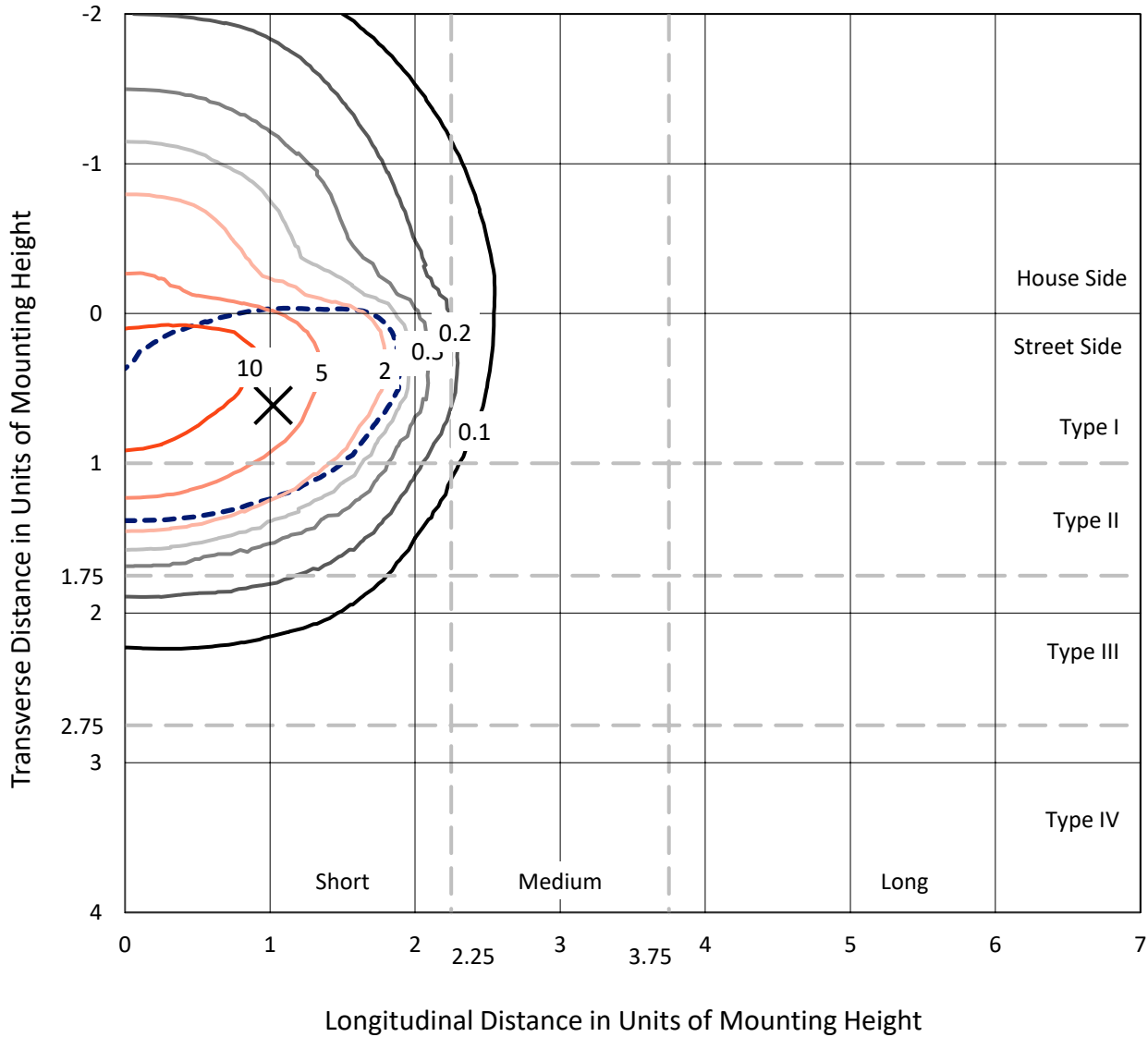
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P643168
 CATALOG NUMBER: GWS-SA6E-735-U-T2R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

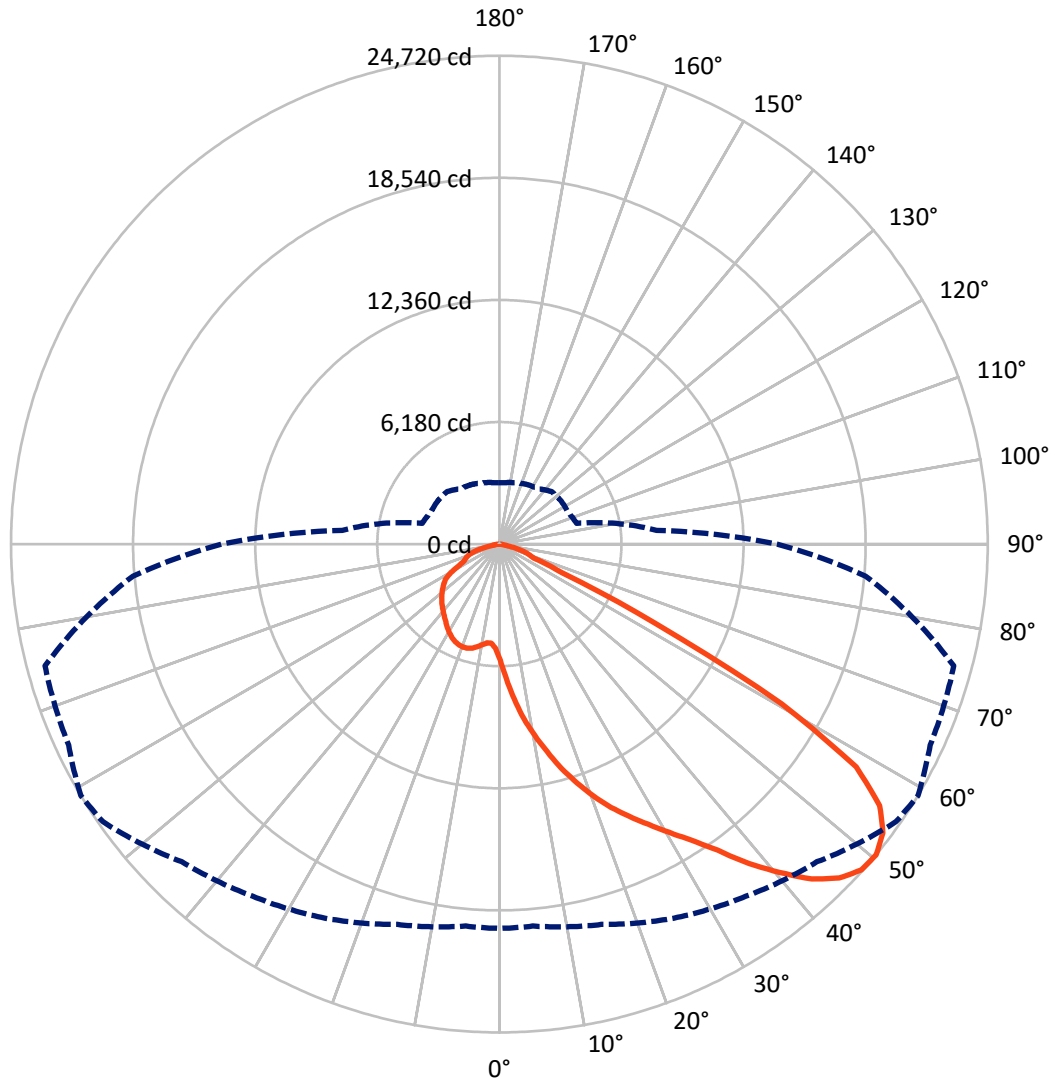
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.9 fc
 Type II - Short - N/A

REPORT NUMBER: P643168
CATALOG NUMBER: GWS-SA6E-735-U-T2R-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P643168

CATALOG NUMBER: GWS-SA6E-735-U-T2R-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8938.0	0.0	8938.0
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	29919.5	0.0	29919.5
	% Fixture	77.0	0.0	77.0
Total	Lumens	38857.5	0.0	38857.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	660.4	1.7
10°-20°	2397.5	6.2
20°-30°	4539.9	11.7
30°-40°	7528.6	19.4
40°-50°	10284.5	26.5
50°-60°	9335.7	24.0
60°-70°	3108.9	8.0
70°-80°	906.7	2.3
80°-90°	95.2	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°	38857.5	100.0
0°-180°	38857.5	100.0

Coefficient of Utilization



REPORT NUMBER: P643168

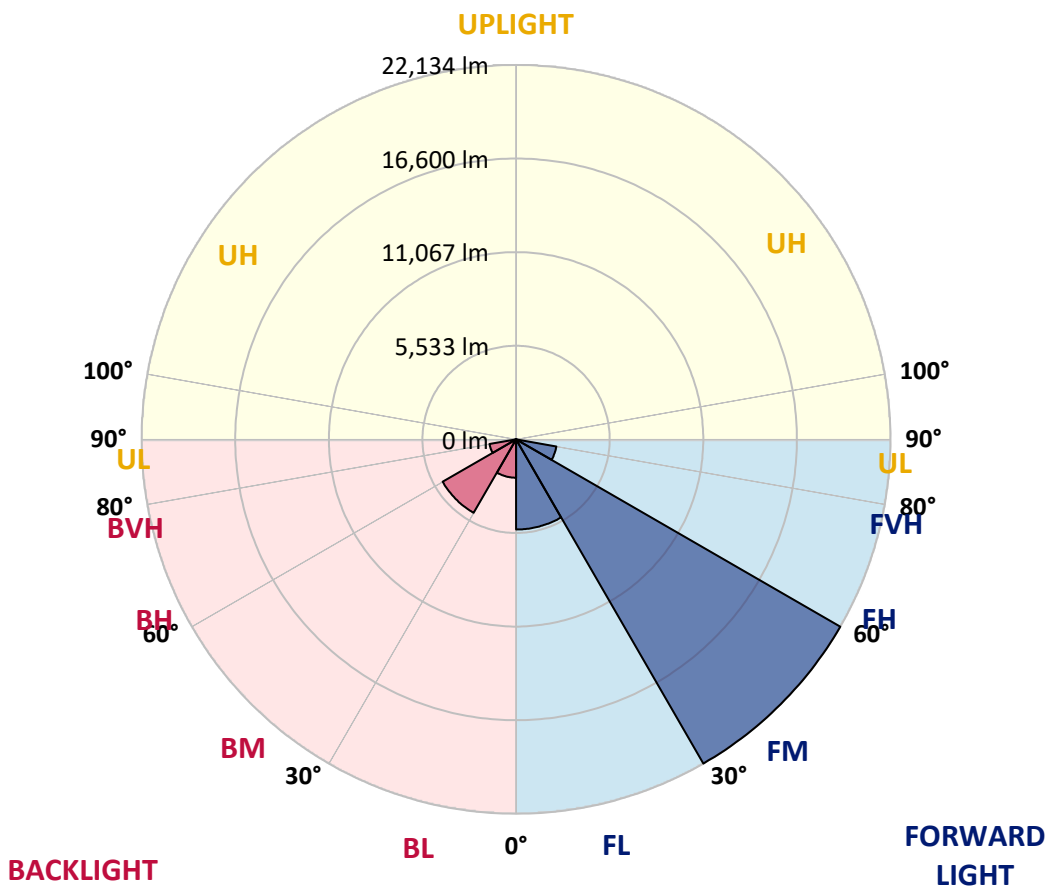
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5328.3	13.7			
FM (30°-60°)	22133.7	57.0			
FH (60°-80°)	2420.3	6.2			G2/5000
FVH (80°-90°)	37.2	0.1			G1/100
BL (0°-30°)	2269.6	5.8	B3/2500		
BM (30°-60°)	5015.1	12.9	B4/8500		
BH (60°-80°)	1595.3	4.1	B3/2500		G3/2500
BVH (80°-90°)	58.0	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





REPORT NUMBER: P643168

CATALOG NUMBER: GWS-SA6E-735-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5887.2	5887.2	5887.2	5887.2	5887.2	5887.2	5887.2	5887.2	5887.2	5887.2	5887.2
2.5°	7628.0	7685.0	7596.4	7602.7	7381.1	7279.9	6995.0	6827.2	6716.5	6406.3	6124.6
5°	9166.3	9099.8	9030.2	8989.0	8796.0	8523.8	8169.3	7887.6	7628.0	7020.3	6434.8
7.5°	10109.5	10074.7	10027.2	10001.9	9812.0	9527.1	9172.6	8932.1	8555.4	7732.5	6811.4
10°	10910.3	10869.1	10840.7	10859.6	10704.6	10521.0	10134.8	9859.5	9435.3	8485.8	7267.2
12.5°	11530.7	11552.8	11562.3	11663.6	11597.1	11486.3	11087.5	10796.3	10324.7	9280.2	7802.1
15°	12021.3	12014.9	12125.7	12318.8	12426.4	12356.8	12037.1	11793.4	11217.3	10062.0	8378.2
17.5°	12135.2	12141.5	12315.6	12654.3	13005.6	13176.5	12996.1	12704.9	12135.2	10834.3	8976.4
20°	12227.0	12239.6	12420.1	12806.2	13319.0	13796.9	13825.4	13616.5	13125.9	11669.9	9584.1
22.5°	12806.2	12834.7	12882.2	13125.9	13588.0	14192.5	14524.9	14480.6	14069.1	12546.7	10239.3
25°	14328.7	14243.2	14012.1	13942.5	14119.8	14610.3	15176.9	15262.4	15059.8	13512.0	10945.1
27.5°	16208.8	16117.0	15775.1	15414.3	15031.3	15202.2	15806.8	16063.2	16066.3	14575.5	11654.1
30°	17914.8	17842.0	17563.4	17047.5	16386.0	16139.1	16585.4	16930.4	17136.1	15803.6	12461.2
32.5°	19373.9	19307.4	18930.8	18509.8	17864.1	17367.2	17528.6	17861.0	18342.1	17392.5	13464.6
35°	20602.0	20535.5	20174.7	19750.6	19152.3	18854.8	18797.8	19025.7	19649.3	19051.1	14616.7
37.5°	21599.0	21532.5	21155.9	20757.1	20301.3	20320.3	20405.7	20516.5	20874.2	20826.7	15847.9
40°	22244.7	22175.1	21906.0	21621.2	21333.1	21561.0	21985.2	21852.2	22042.1	22260.5	16981.1
42.5°	22532.7	22444.1	22289.0	22225.7	22137.1	22491.6	23308.2	23175.3	22947.4	23216.4	17823.0
45°	22244.7	22168.7	22165.6	22358.6	22564.4	23020.2	24222.9	24115.3	23539.2	23678.5	18326.2
47.5°	21361.6	21295.2	21475.6	21982.0	22488.4	23153.1	24631.2	24650.2	23960.2	23871.6	18652.3
50°	19453.0	19408.7	19931.0	20890.0	21763.6	22738.5	24501.5	24719.9	24061.5	23811.5	18611.1
52.5°	15572.6	15778.3	16914.6	18516.1	20212.7	22010.5	24020.4	24305.2	23574.1	23415.8	18389.5
55°	10660.2	10755.2	11891.5	14230.5	16920.9	20434.2	22915.7	23355.7	22998.0	23349.3	18620.6
57.5°	5520.0	5596.0	6491.7	8568.1	11476.8	16148.6	19848.7	21292.0	21836.4	23684.8	19339.1
60°	2266.3	2329.6	2699.9	3703.2	5789.1	9403.7	14284.3	16424.0	17702.7	21630.7	17174.1
62.5°	1645.9	1677.5	1854.8	2209.3	3032.2	4608.5	8083.8	8871.9	9770.8	13556.4	10904.0
65°	1386.3	1421.2	1563.6	1778.8	2212.4	2826.5	3453.2	3472.2	3826.7	5523.2	4041.9
67.5°	1161.6	1193.3	1319.9	1503.4	1788.3	2006.7	1854.8	1857.9	1851.6	2003.5	1937.1
70°	905.2	930.6	1057.2	1253.4	1402.2	1288.2	1449.6	1604.7	1538.3	1598.4	1690.2
72.5°	661.5	690.0	800.8	949.5	911.6	917.9	1174.3	1332.5	1294.5	1361.0	1446.5
75°	477.9	496.9	553.9	474.8	500.1	604.5	826.1	911.6	949.5	1006.5	1082.5
77.5°	155.1	155.1	174.1	218.4	272.2	335.5	421.0	455.8	512.8	576.1	629.9
80°	79.1	82.3	98.1	120.3	151.9	193.1	246.9	262.7	291.2	326.0	348.2
82.5°	38.0	41.1	47.5	60.1	79.1	101.3	136.1	151.9	170.9	193.1	208.9
85°	9.5	9.5	12.7	19.0	25.3	38.0	50.6	60.1	76.0	91.8	101.3
87.5°	0.0	0.0	0.0	0.0	0.0	3.2	9.5	12.7	15.8	19.0	25.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P643168

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5887.2	5887.2	5887.2	5887.2	5887.2	5887.2	5887.2	5887.2	5887.2	5887.2	5887.2
2.5°	5998.0	5820.7	5592.8	5399.8	5222.5	5086.4	4969.3	4912.3	4858.5	4820.5	4833.2
5°	6162.6	5858.7	5434.6	5140.2	4959.8	4868.0	4804.7	4773.1	4766.7	4741.4	4731.9
7.5°	6403.1	5969.5	5402.9	5105.4	4985.1	4937.6	4902.8	4883.8	4893.3	4868.0	4858.5
10°	6700.6	6153.1	5482.0	5219.3	5114.9	5080.1	5042.1	5016.8	5004.1	4966.1	4959.8
12.5°	7071.0	6381.0	5624.5	5364.9	5260.5	5200.3	5149.7	5105.4	5076.9	5029.4	5016.8
15°	7469.8	6634.2	5792.2	5507.4	5383.9	5295.3	5213.0	5146.5	5095.9	5032.6	5023.1
17.5°	7903.4	6900.0	5931.5	5605.5	5447.2	5330.1	5209.8	5111.7	5042.1	4959.8	4950.3
20°	8356.0	7169.1	6035.9	5653.0	5450.4	5292.1	5130.7	5000.9	4912.3	4830.0	4823.7
22.5°	8824.4	7416.0	6099.3	5640.3	5399.8	5203.5	5010.4	4864.8	4760.4	4662.3	4655.9
25°	9296.1	7653.3	6115.1	5589.7	5298.5	5070.6	4877.5	4706.6	4589.5	4478.7	4466.0
27.5°	9774.0	7852.7	6077.1	5488.4	5162.4	4915.5	4722.4	4554.7	4434.4	4323.6	4304.6
30°	10283.6	8023.7	5994.8	5355.4	5004.1	4750.9	4561.0	4434.4	4320.4	4209.7	4190.7
32.5°	10828.0	8172.4	5877.7	5194.0	4820.5	4586.3	4447.0	4333.1	4219.1	4121.0	4102.0
35°	11476.8	8270.5	5703.6	4985.1	4649.6	4466.0	4371.1	4238.1	4098.9	3991.3	3981.8
37.5°	12147.9	8346.5	5494.7	4785.7	4500.8	4396.4	4317.3	4136.9	3962.8	3833.0	3817.2
40°	12796.7	8409.8	5235.2	4599.0	4364.7	4345.8	4238.1	4013.4	3712.7	3567.1	3554.5
42.5°	13401.3	8428.8	4963.0	4399.6	4241.3	4231.8	4111.5	3763.4	3532.3	3440.5	3427.9
45°	13815.9	8413.0	4681.3	4212.8	4117.9	4067.2	3940.6	3583.0	3440.5	3358.2	3342.4
47.5°	14122.9	8330.7	4364.7	4016.6	3978.6	3909.0	3636.8	3469.0	3336.1	3253.8	3238.0
50°	14069.1	7988.8	4045.1	3826.7	3810.8	3750.7	3415.2	3326.6	3209.5	3120.8	3108.2
52.5°	13790.6	7340.0	3719.1	3617.8	3649.4	3532.3	3256.9	3155.7	3054.4	2953.1	2930.9
55°	13860.2	6871.5	3472.2	3415.2	3472.2	3206.3	3079.7	2972.1	2877.1	2779.0	2760.0
57.5°	14164.1	6409.4	3209.5	3196.8	3256.9	2956.3	2851.8	2715.7	2579.6	2500.5	2500.5
60°	11894.6	4671.8	2747.4	2779.0	2915.1	2753.7	2661.9	2522.6	2373.9	2304.2	2304.2
62.5°	7033.0	2930.9	2278.9	2244.1	2329.6	2430.8	2481.5	2367.5	2190.3	2098.5	2101.7
65°	3098.7	2133.3	2009.9	1981.4	1956.1	2025.7	2165.0	2174.5	1987.7	1880.1	1883.3
67.5°	1908.6	1930.7	1880.1	1857.9	1835.8	1823.1	1810.5	1816.8	1766.2	1668.0	1664.9
70°	1721.8	1782.0	1747.2	1728.2	1699.7	1677.5	1601.6	1478.1	1392.7	1367.3	1395.8
72.5°	1481.3	1563.6	1544.6	1535.1	1500.3	1446.5	1345.2	1224.9	1123.6	1060.3	1073.0
75°	1117.3	1183.8	1193.3	1196.4	1158.4	1107.8	1003.4	902.1	813.4	747.0	762.8
77.5°	642.5	680.5	690.0	699.5	671.0	652.0	582.4	509.6	462.1	392.5	411.5
80°	357.7	373.5	373.5	376.7	360.8	338.7	291.2	250.0	227.9	196.2	199.4
82.5°	215.2	221.6	224.7	227.9	218.4	196.2	161.4	132.9	120.3	104.5	101.3
85°	104.5	110.8	110.8	113.9	98.1	85.5	66.5	50.6	44.3	31.7	34.8
87.5°	25.3	28.5	28.5	25.3	22.2	15.8	9.5	3.2	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)