

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: P637857

Luminaire Tested: GWS-SA4D-760-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637857
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-760-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18607.8 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

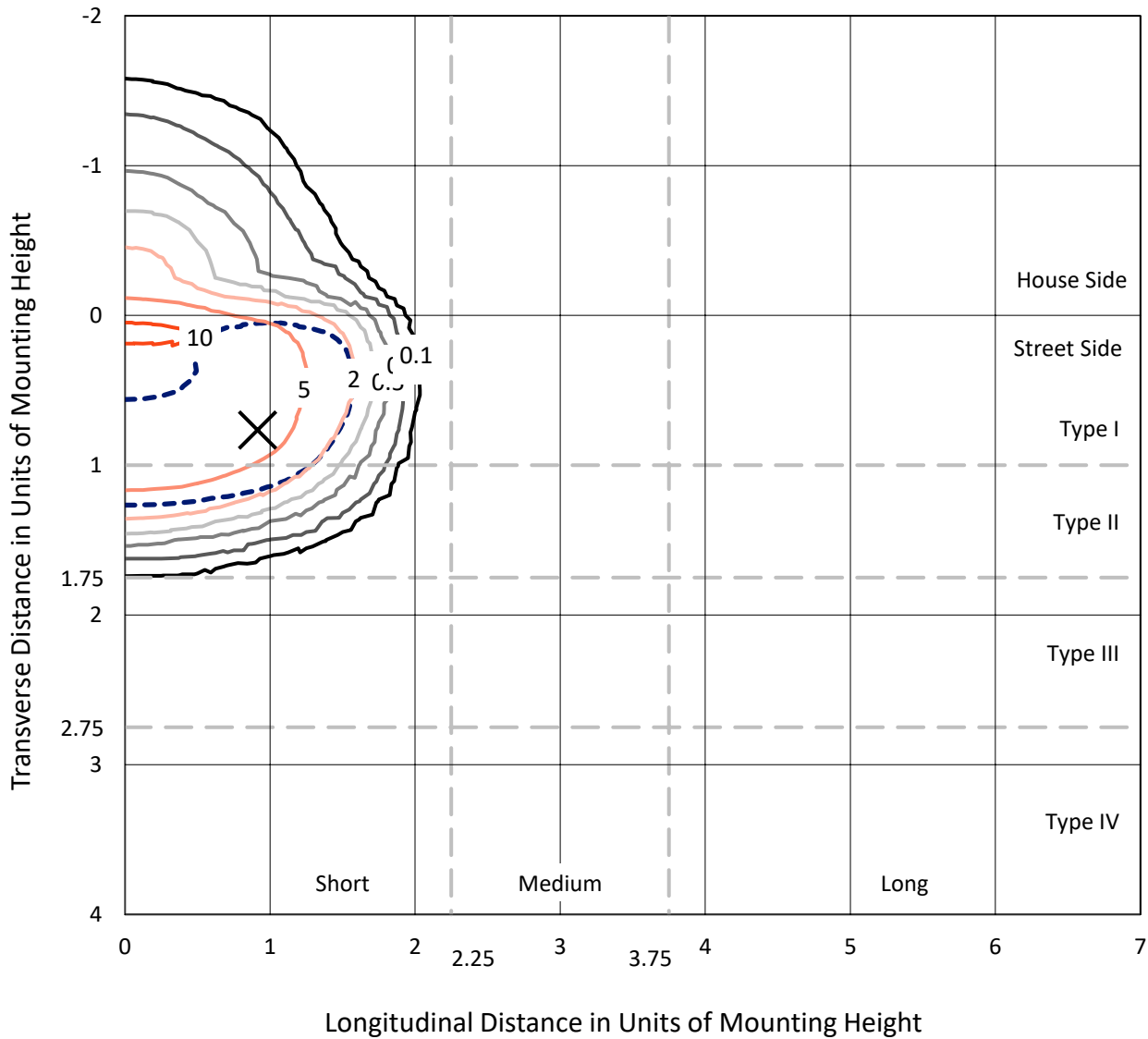
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

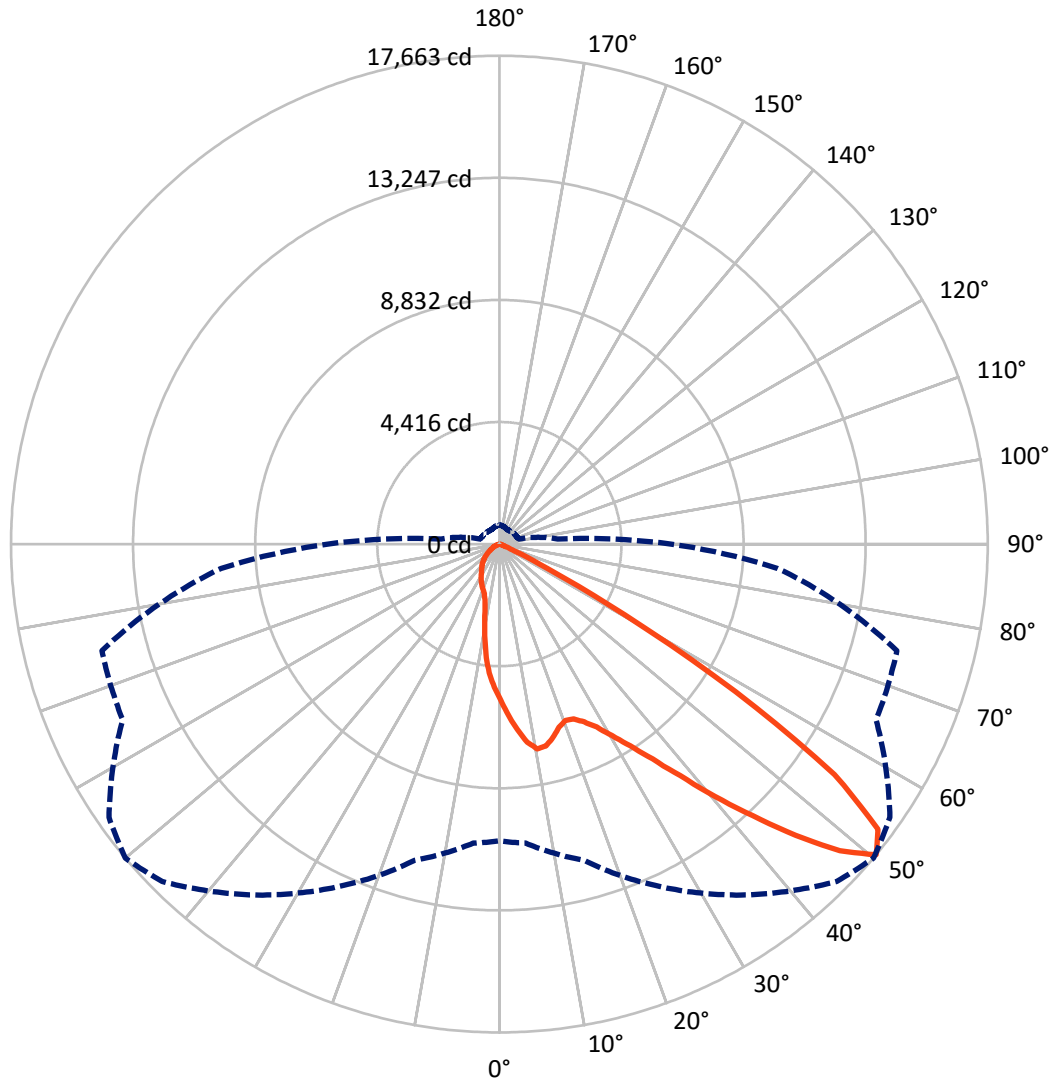
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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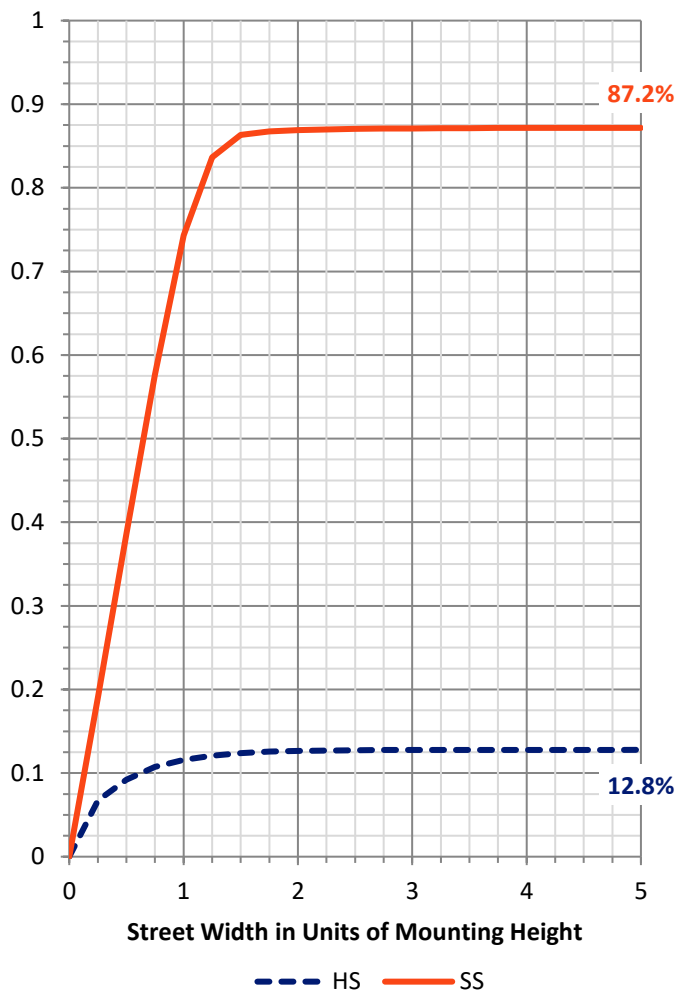
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2390.8	0.0	2390.8
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	16217.0	0.0	16217.0
	% Fixture	87.2	0.0	87.2
Total	Lumens	18607.8	0.0	18607.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.0	2.8
10°-20°	1349.3	7.3
20°-30°	2226.8	12.0
30°-40°	3674.6	19.7
40°-50°	5814.1	31.2
50°-60°	4402.0	23.7
60°-70°	550.9	3.0
70°-80°	62.3	0.3
80°-90°	4.8	0.0
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°	18607.8	100.0
0°-180°	18607.8	100.0

Coefficient of Utilization



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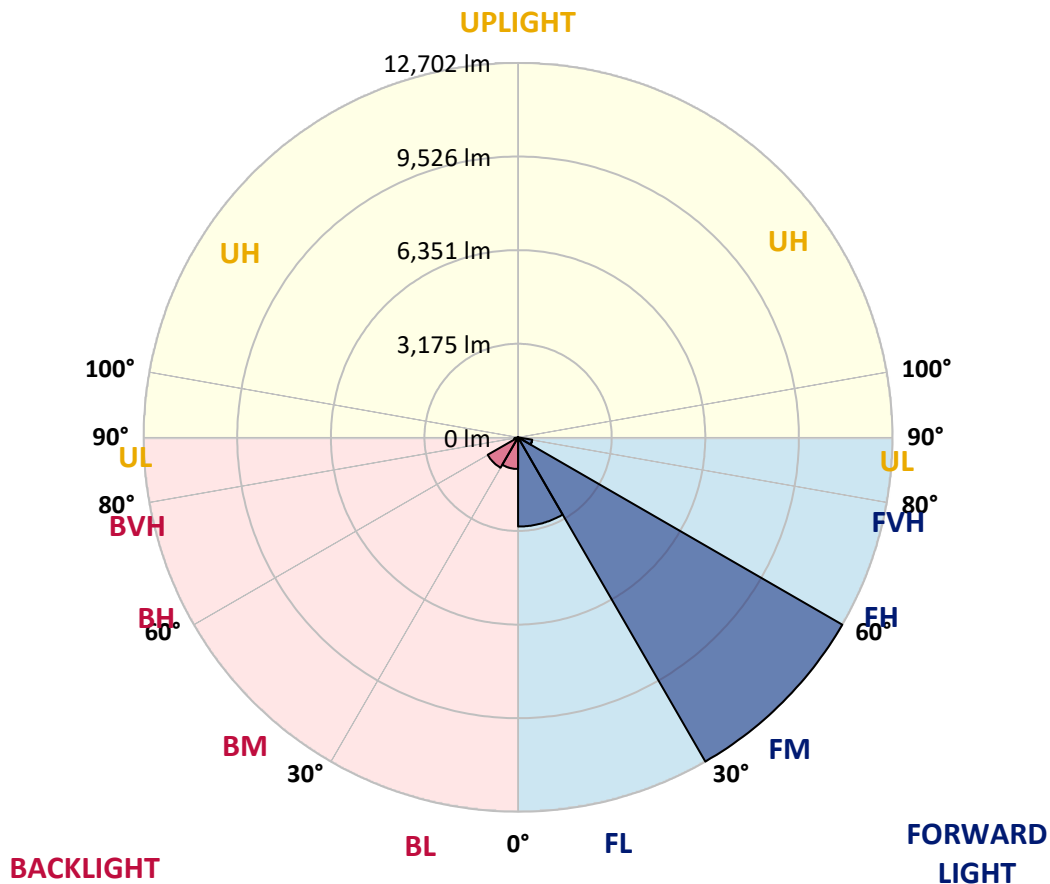
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3025.9	16.3			
FM (30°-60°)	12701.8	68.3			
FH (60°-80°)	487.1	2.6			G0/660
FVH (80°-90°)	2.2	0.0			G0/10
BL (0°-30°)	1073.1	5.8	B3/2500		
BM (30°-60°)	1189.0	6.4	B2/2500		
BH (60°-80°)	126.2	0.7	B1/500		G1/500
BVH (80°-90°)	2.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	5637.4	5637.4	5637.4	5637.4	5637.4	5637.4	5637.4	5637.4	5637.4	5637.4	5637.4
2.5°	6423.8	6475.2	6461.0	6393.7	6321.1	6269.7	6190.0	6165.2	5984.6	5858.8	5726.0
5°	7199.5	7215.5	7197.8	7116.3	6988.8	6866.6	6735.5	6659.4	6356.5	6083.7	5805.7
7.5°	7385.5	7366.0	7399.7	7440.4	7422.7	7369.6	7231.4	7148.2	6786.9	6342.3	5920.8
10°	6804.6	6760.3	6886.1	7096.8	7318.2	7567.9	7532.5	7539.6	7206.6	6668.2	6071.3
12.5°	6034.2	6016.4	6110.3	6354.7	6788.6	7355.4	7491.8	7720.2	7591.0	7020.7	6243.1
15°	5695.9	5704.7	5761.4	5915.5	6227.2	6932.1	7259.8	7672.4	7934.5	7362.5	6432.6
17.5°	5747.2	5779.1	5777.3	5828.7	6018.2	6583.2	6965.8	7521.9	8200.2	7755.7	6650.5
20°	6096.1	6128.0	6080.2	6041.2	6105.0	6494.6	6811.7	7369.6	8379.1	8152.4	6880.7
22.5°	6618.6	6655.8	6542.5	6430.9	6390.1	6639.9	6870.1	7307.6	8515.5	8515.5	7086.2
25°	7250.9	7302.3	7126.9	6928.6	6815.2	6946.3	7119.8	7447.5	8655.4	8841.4	7226.1
27.5°	7957.6	7959.3	7808.8	7585.6	7373.1	7389.0	7493.5	7762.7	8809.5	9192.0	7335.9
30°	8752.8	8758.1	8558.0	8290.5	8023.1	7950.5	8039.0	8242.7	9130.0	9633.0	7488.2
32.5°	9780.0	9804.8	9517.9	9124.7	8777.6	8641.2	8692.6	8906.9	9640.1	10185.6	7716.7
35°	11168.6	11195.1	10771.9	10252.9	9700.3	9494.9	9546.2	9762.3	10378.7	10970.2	8081.5
37.5°	12539.4	12574.8	12146.2	11662.7	10904.7	10564.6	10617.8	10823.2	11487.4	12054.1	8666.0
40°	13487.0	13534.8	13401.9	13076.1	12372.9	11926.6	11990.4	12064.8	12707.7	13350.6	9424.0
42.5°	13986.4	14053.7	14110.4	14276.9	13906.7	13533.0	13425.0	13430.3	13949.2	14671.8	10212.2
45°	14016.5	14082.0	14372.5	15015.4	15297.0	15219.1	15022.5	14889.7	14896.8	15552.1	10704.6
47.5°	13042.4	13164.6	13708.3	14967.6	16026.7	16673.2	16574.0	16258.7	15295.3	15610.5	10651.4
50°	10734.7	10855.1	11843.4	13655.2	15495.4	17254.1	17663.2	17239.9	15034.9	14882.6	10104.1
52.5°	7796.4	7808.8	8449.9	10566.4	13341.7	16182.6	17146.1	17105.3	14638.2	14000.6	9356.7
55°	3703.4	3659.1	4379.9	5963.3	9227.5	13088.5	14712.6	15173.0	14075.0	13363.0	8777.6
57.5°	1078.6	1099.9	1420.4	2327.2	4615.5	8364.9	10075.8	10933.0	11552.9	10986.2	6808.1
60°	483.5	485.3	540.2	708.4	1537.3	3891.1	5208.8	6269.7	6907.3	6400.8	3377.5
62.5°	350.7	352.4	373.7	400.3	522.5	1317.7	1953.5	2603.5	2651.3	1735.7	855.4
65°	292.2	292.2	295.8	295.8	313.5	471.1	593.3	765.1	644.7	478.2	334.7
67.5°	235.6	237.3	240.9	240.9	235.6	235.6	255.0	279.8	299.3	370.2	308.2
70°	184.2	182.4	182.4	184.2	178.9	152.3	164.7	187.7	205.4	288.7	267.4
72.5°	143.5	145.2	143.5	136.4	124.0	90.3	97.4	122.2	131.1	180.7	180.7
75°	108.0	109.8	102.7	77.9	51.4	28.3	37.2	60.2	76.2	88.6	65.5
77.5°	14.2	14.2	10.6	10.6	8.9	10.6	10.6	14.2	21.3	21.3	15.9
80°	1.8	1.8	1.8	3.5	5.3	7.1	7.1	7.1	7.1	8.9	8.9
82.5°	1.8	1.8	1.8	1.8	5.3	5.3	7.1	7.1	7.1	7.1	7.1
85°	0.0	0.0	0.0	1.8	3.5	5.3	5.3	7.1	7.1	7.1	7.1
87.5°	0.0	0.0	0.0	1.8	3.5	5.3	5.3	5.3	7.1	7.1	7.1
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°	5637.4	5637.4	5637.4	5637.4	5637.4	5637.4	5637.4	5637.4	5637.4	5637.4	5637.4
2.5°	5646.3	5543.6	5419.6	5334.6	5214.1	5134.4	5021.1	4944.9	4879.4	4828.0	4856.4
5°	5648.1	5485.1	5231.8	5015.8	4780.2	4564.1	4332.1	4149.7	3985.0	3910.6	3951.3
7.5°	5683.5	5449.7	5061.8	4677.5	4225.9	3779.5	3361.6	3021.5	2853.2	2773.5	2798.3
10°	5752.5	5433.7	4872.3	4234.7	3501.5	2892.2	2486.6	2256.4	2162.5	2112.9	2121.8
12.5°	5816.3	5423.1	4626.1	3652.0	2762.9	2244.0	2033.2	2001.3	2020.8	2022.6	2020.8
15°	5903.1	5403.6	4321.5	3053.4	2210.3	1939.4	1944.7	1990.7	2036.8	2050.9	2047.4
17.5°	5995.2	5373.5	3928.3	2479.5	1875.6	1850.8	1912.8	1974.8	2020.8	2027.9	2029.7
20°	6090.8	5311.5	3480.2	2024.4	1719.7	1783.5	1852.6	1898.6	1932.3	1942.9	1946.4
22.5°	6135.1	5180.5	2963.1	1698.5	1615.2	1700.3	1751.6	1811.8	1822.5	1783.5	1790.6
25°	6112.1	4959.1	2458.3	1478.9	1510.8	1595.8	1671.9	1641.8	1597.5	1569.2	1578.1
27.5°	6039.5	4665.1	1964.2	1317.7	1399.2	1507.2	1516.1	1482.4	1475.3	1452.3	1459.4
30°	5961.5	4326.8	1579.8	1188.4	1285.8	1399.2	1372.6	1385.0	1386.8	1360.2	1369.1
32.5°	5913.7	3972.6	1257.5	1101.6	1213.2	1234.5	1287.6	1312.4	1314.2	1252.2	1262.8
35°	5929.7	3623.7	1064.4	1030.8	1145.9	1140.6	1215.0	1229.1	1126.4	1041.4	1050.3
37.5°	6058.9	3301.3	954.6	975.9	1029.0	1069.7	1126.4	1032.6	1009.5	970.6	975.9
40°	6299.8	3026.8	889.1	942.2	949.3	1014.8	928.1	940.5	942.2	917.4	922.7
42.5°	6581.4	2798.3	850.1	922.7	905.0	915.7	828.9	853.7	880.2	869.6	871.4
45°	6723.1	2575.2	816.5	855.4	860.8	759.8	740.3	766.9	800.5	805.9	807.6
47.5°	6597.4	2362.7	781.1	758.0	793.5	692.5	669.5	678.3	717.3	738.6	742.1
50°	6213.0	2118.2	727.9	671.2	651.8	621.7	600.4	602.2	646.5	683.6	690.7
52.5°	5672.8	1863.2	641.1	568.5	524.2	547.3	552.6	542.0	582.7	619.9	627.0
55°	5148.6	1544.4	508.3	462.3	421.5	471.1	485.3	471.1	483.5	508.3	510.1
57.5°	3625.4	873.2	389.6	382.6	348.9	403.8	426.8	405.6	384.3	400.3	403.8
60°	1680.8	456.9	299.3	299.3	290.5	347.1	386.1	356.0	315.3	322.3	327.7
62.5°	526.0	288.7	219.6	207.2	237.3	295.8	327.7	297.5	249.7	249.7	256.8
65°	297.5	248.0	173.6	159.4	193.1	237.3	256.8	224.9	182.4	178.9	178.9
67.5°	276.3	235.6	154.1	129.3	136.4	152.3	159.4	138.1	125.7	124.0	125.7
70°	228.5	196.6	124.0	88.6	83.2	81.5	85.0	79.7	76.2	77.9	83.2
72.5°	141.7	118.7	77.9	53.1	46.0	44.3	44.3	44.3	42.5	42.5	42.5
75°	51.4	44.3	35.4	26.6	23.0	21.3	21.3	23.0	21.3	19.5	17.7
77.5°	15.9	14.2	14.2	14.2	12.4	10.6	8.9	8.9	7.1	5.3	5.3
80°	8.9	8.9	8.9	8.9	7.1	7.1	5.3	3.5	1.8	1.8	0.0
82.5°	8.9	8.9	8.9	7.1	7.1	7.1	5.3	3.5	1.8	0.0	0.0
85°	7.1	7.1	7.1	7.1	7.1	7.1	5.3	3.5	1.8	0.0	0.0
87.5°	7.1	7.1	7.1	7.1	7.1	7.1	5.3	3.5	1.8	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)