

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: P636317

Luminaire Tested: GWS-SA3F-750-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636317
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-SA3F-750-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18836.8 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

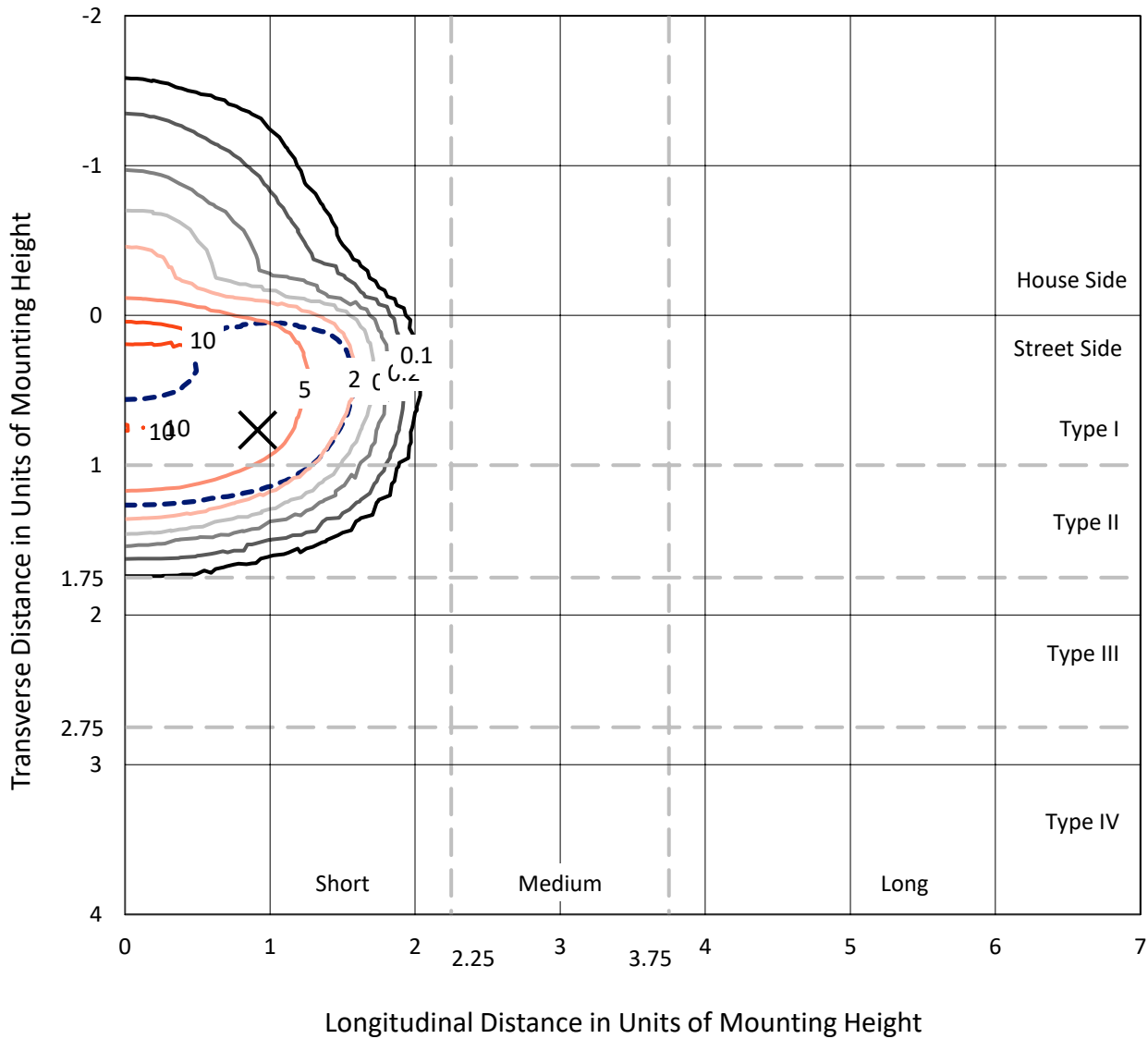
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

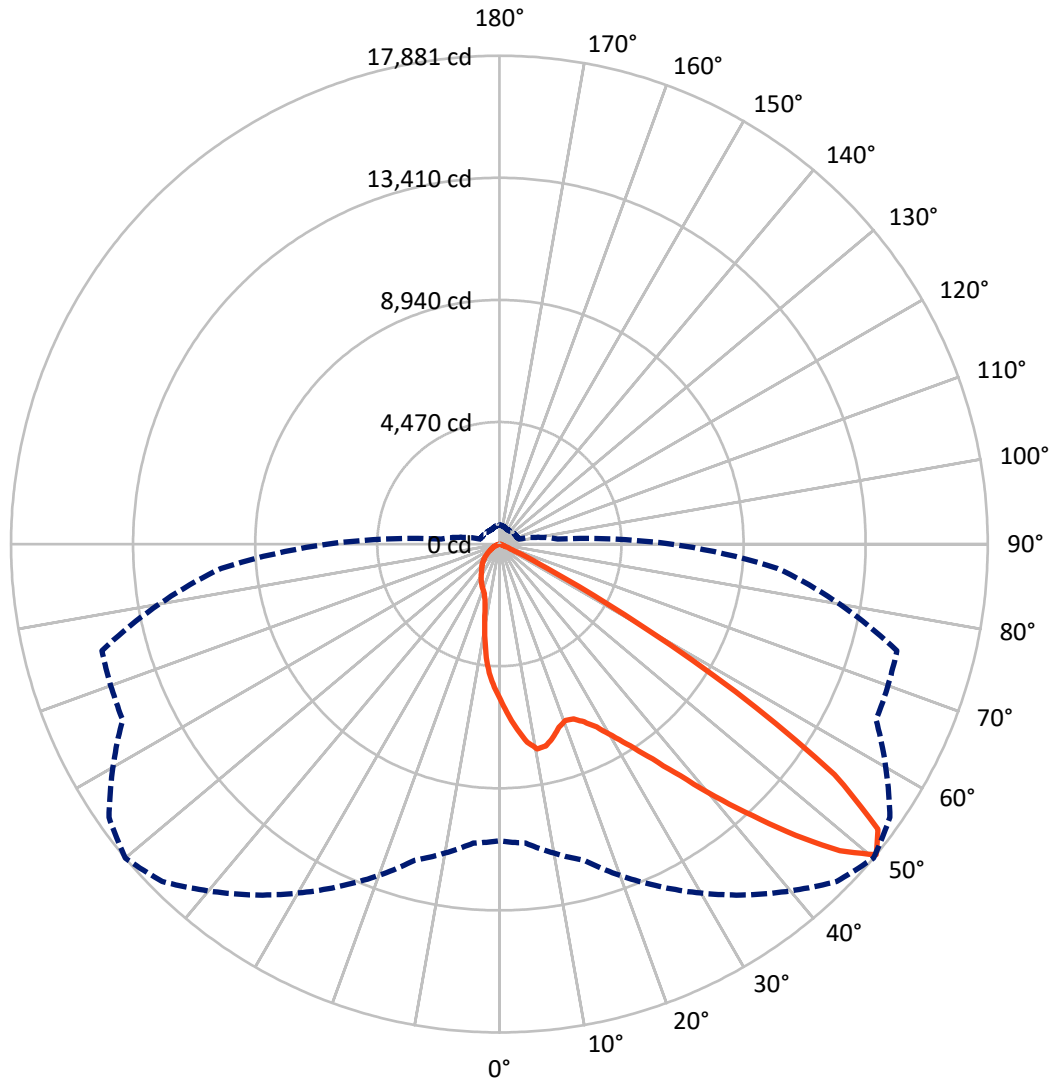
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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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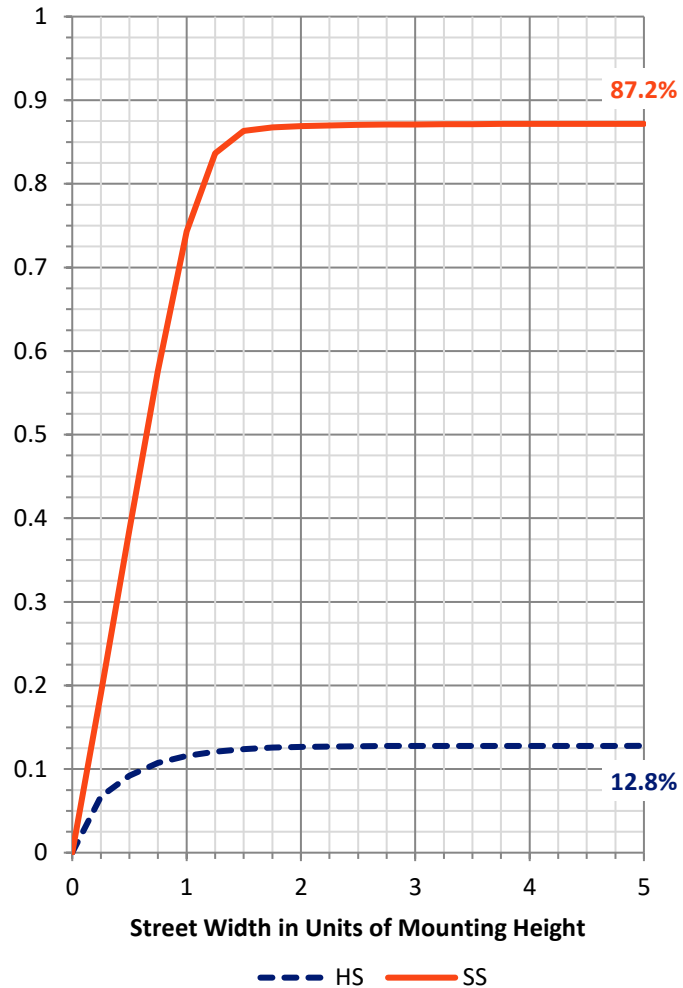
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2420.3	0.0	2420.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	16416.6	0.0	16416.6
	% Fixture	87.2	0.0	87.2
Total	Lumens	18836.8	0.0	18836.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.4	2.8
10°-20°	1365.9	7.3
20°-30°	2254.2	12.0
30°-40°	3719.9	19.7
40°-50°	5885.7	31.2
50°-60°	4456.2	23.7
60°-70°	557.7	3.0
70°-80°	63.1	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°	18836.8	100.0
0°-180°	18836.8	100.0

Coefficient of Utilization



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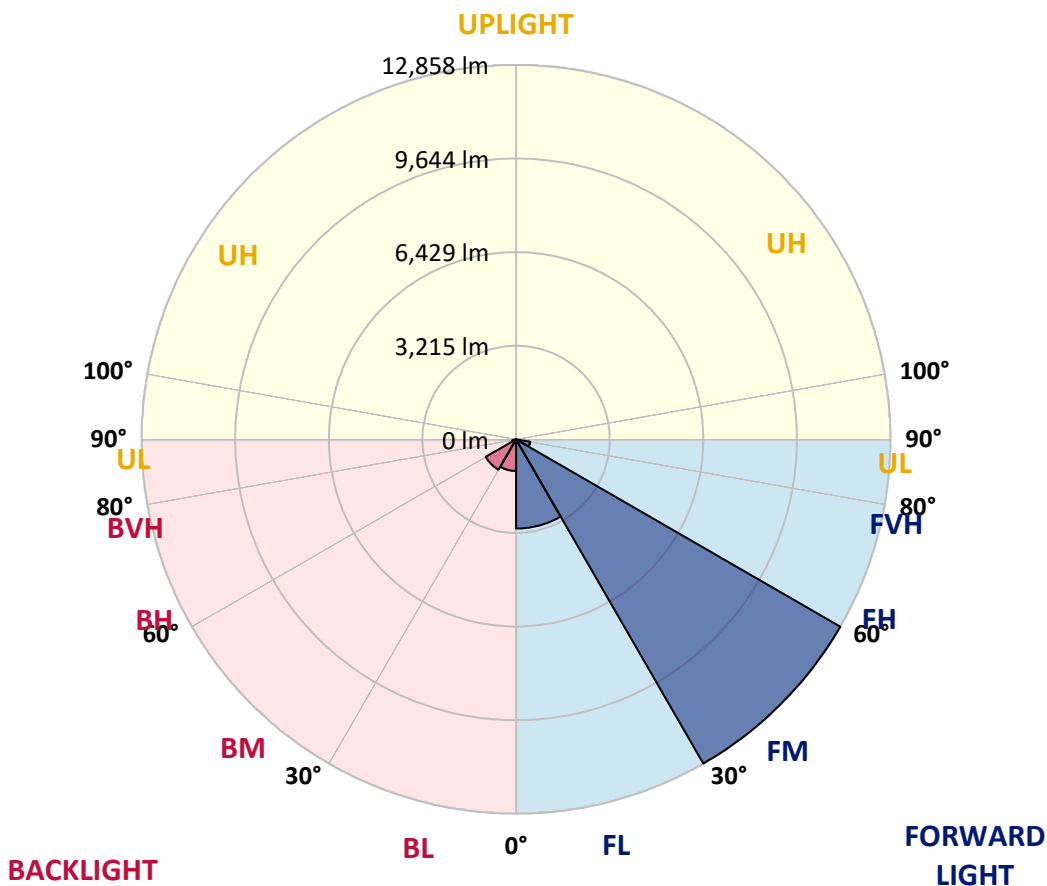
CATALOG NUMBER: GWS-SA3F-750-U-AFL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3063.1	16.3			
FM (30°-60°)	12858.1	68.3			
FH (60°-80°)	493.1	2.6			G0/660
FVH (80°-90°)	2.3	0.0			G0/10
BL (0°-30°)	1086.3	5.8	B3/2500		
BM (30°-60°)	1203.6	6.4	B2/2500		
BH (60°-80°)	127.7	0.7	B1/500		G1/500
BVH (80°-90°)	2.6	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°	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8
2.5°	6502.8	6554.8	6540.5	6472.4	6398.9	6346.9	6266.2	6241.1	6058.2	5930.9	5796.4
5°	7288.1	7304.3	7286.3	7203.9	7074.8	6951.1	6818.4	6741.3	6434.7	6158.6	5877.1
7.5°	7476.4	7456.7	7490.7	7532.0	7514.0	7460.3	7320.4	7236.1	6870.4	6420.4	5993.7
10°	6888.3	6843.5	6970.8	7184.2	7408.3	7661.1	7625.2	7632.4	7295.3	6750.3	6146.1
12.5°	6108.4	6090.5	6185.5	6432.9	6872.2	7445.9	7584.0	7815.3	7684.4	7107.1	6320.0
15°	5766.0	5774.9	5832.3	5988.3	6303.8	7017.4	7349.1	7766.8	8032.2	7453.1	6511.8
17.5°	5818.0	5850.2	5848.4	5900.4	6092.3	6664.2	7051.5	7614.4	8301.1	7851.1	6732.3
20°	6171.2	6203.4	6155.0	6115.6	6180.1	6574.6	6895.5	7460.3	8482.2	8252.7	6965.4
22.5°	6700.1	6737.7	6623.0	6510.0	6468.8	6721.6	6954.7	7397.5	8620.3	8620.3	7173.4
25°	7340.1	7392.1	7214.6	7013.8	6899.1	7031.8	7207.5	7539.1	8761.9	8950.2	7315.0
27.5°	8055.5	8057.3	7904.9	7679.0	7463.8	7480.0	7585.8	7858.3	8917.9	9305.2	7426.2
30°	8860.5	8865.9	8663.3	8392.6	8121.8	8048.3	8138.0	8344.2	9242.4	9751.6	7580.4
32.5°	9900.4	9925.5	9635.0	9237.0	8885.6	8747.6	8799.6	9016.5	9758.8	10311.0	7811.7
35°	11306.0	11332.9	10904.4	10379.1	9819.7	9611.7	9663.7	9882.5	10506.4	11105.2	8181.0
37.5°	12693.7	12729.6	12295.7	11806.2	11038.9	10694.7	10748.4	10956.4	11628.8	12202.5	8772.7
40°	13652.9	13701.3	13566.9	13237.0	12525.2	12073.4	12137.9	12213.2	12864.1	13514.9	9540.0
42.5°	14158.5	14226.7	14284.0	14452.6	14077.9	13699.6	13590.2	13595.6	14120.9	14852.4	10337.9
45°	14189.0	14255.3	14549.4	15200.2	15485.3	15406.4	15207.4	15072.9	15080.1	15743.5	10836.3
47.5°	13202.9	13326.6	13877.0	15151.8	16224.0	16878.4	16778.0	16458.8	15483.5	15802.6	10782.5
50°	10866.8	10988.7	11989.1	13823.3	15686.1	17466.4	17880.6	17452.1	15219.9	15065.7	10228.5
52.5°	7892.3	7904.9	8553.9	10696.4	13505.9	16381.7	17357.1	17315.8	14818.3	14172.9	9471.9
55°	3749.0	3704.1	4433.8	6036.7	9341.0	13249.5	14893.6	15359.8	14248.2	13527.4	8885.6
57.5°	1091.9	1113.4	1437.9	2355.9	4672.3	8467.9	10199.8	11067.6	11695.1	11121.4	6891.9
60°	489.5	491.3	546.8	717.2	1556.2	3939.0	5272.9	6346.9	6992.3	6479.5	3419.1
62.5°	355.0	356.8	378.3	405.2	528.9	1333.9	1977.6	2635.6	2684.0	1757.0	866.0
65°	295.8	295.8	299.4	299.4	317.3	476.9	600.6	774.5	652.6	484.1	338.9
67.5°	238.5	240.2	243.8	243.8	238.5	238.5	258.2	283.3	303.0	374.7	312.0
70°	186.5	184.7	184.7	186.5	181.1	154.2	166.7	190.0	208.0	292.2	270.7
72.5°	145.2	147.0	145.2	138.1	125.5	91.4	98.6	123.7	132.7	182.9	182.9
75°	109.4	111.2	104.0	78.9	52.0	28.7	37.7	61.0	77.1	89.6	66.3
77.5°	14.3	14.3	10.8	10.8	9.0	10.8	10.8	14.3	21.5	21.5	16.1
80°	1.8	1.8	1.8	3.6	5.4	7.2	7.2	7.2	7.2	9.0	9.0
82.5°	1.8	1.8	1.8	1.8	5.4	5.4	7.2	7.2	7.2	7.2	7.2
85°	0.0	0.0	0.0	1.8	3.6	5.4	5.4	7.2	7.2	7.2	7.2
87.5°	0.0	0.0	0.0	1.8	3.6	5.4	5.4	5.4	7.2	7.2	7.2
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°	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8	5706.8
2.5°	5715.8	5611.8	5486.3	5400.2	5278.3	5197.6	5082.9	5005.8	4939.4	4887.4	4916.1
5°	5717.6	5552.6	5296.2	5077.5	4839.0	4620.3	4385.4	4200.8	4034.0	3958.7	4000.0
7.5°	5753.4	5516.8	5124.1	4735.0	4277.9	3826.0	3402.9	3058.7	2888.4	2807.7	2832.8
10°	5823.3	5500.6	4932.3	4286.8	3544.6	2927.8	2517.2	2284.2	2189.1	2138.9	2147.9
12.5°	5887.9	5489.9	4683.1	3697.0	2796.9	2271.6	2058.2	2026.0	2045.7	2047.5	2045.7
15°	5975.7	5470.1	4374.7	3091.0	2237.5	1963.2	1968.6	2015.2	2061.8	2076.2	2072.6
17.5°	6069.0	5439.7	3976.7	2510.1	1898.7	1873.6	1936.3	1999.1	2045.7	2052.9	2054.7
20°	6165.8	5376.9	3523.0	2049.3	1740.9	1805.5	1875.4	1922.0	1956.1	1966.8	1970.4
22.5°	6210.6	5244.2	2999.5	1719.4	1635.1	1721.2	1773.2	1834.1	1844.9	1805.5	1812.6
25°	6187.3	5020.1	2488.5	1497.1	1529.3	1615.4	1692.5	1662.0	1617.2	1588.5	1597.5
27.5°	6113.8	4722.5	1988.3	1333.9	1416.4	1525.8	1534.7	1500.7	1493.5	1470.2	1477.3
30°	6034.9	4380.1	1599.3	1203.0	1301.6	1416.4	1389.5	1402.0	1403.8	1376.9	1385.9
32.5°	5986.5	4021.5	1273.0	1115.2	1228.1	1249.7	1303.4	1328.5	1330.3	1267.6	1278.3
35°	6002.6	3668.3	1077.5	1043.5	1160.0	1154.6	1229.9	1244.3	1140.3	1054.2	1063.2
37.5°	6133.5	3342.0	966.4	987.9	1041.7	1082.9	1140.3	1045.3	1022.0	982.5	987.9
40°	6377.3	3064.1	900.0	953.8	961.0	1027.3	939.5	952.0	953.8	928.7	934.1
42.5°	6662.4	2832.8	860.6	934.1	916.2	926.9	839.1	864.2	891.1	880.3	882.1
45°	6805.8	2606.9	826.5	866.0	871.3	769.2	749.4	776.3	810.4	815.8	817.6
47.5°	6678.6	2391.7	790.7	767.4	803.2	701.0	677.7	686.7	726.1	747.6	751.2
50°	6289.5	2144.3	736.9	679.5	659.8	629.3	607.8	609.6	654.4	692.1	699.2
52.5°	5742.7	1886.1	649.0	575.5	530.7	554.0	559.4	548.6	589.9	627.5	634.7
55°	5212.0	1563.4	514.6	467.9	426.7	476.9	491.3	476.9	489.5	514.6	516.4
57.5°	3670.1	883.9	394.4	387.3	353.2	408.8	432.1	410.6	389.1	405.2	408.8
60°	1701.5	462.6	303.0	303.0	294.0	351.4	390.9	360.4	319.1	326.3	331.7
62.5°	532.5	292.2	222.3	209.8	240.2	299.4	331.7	301.2	252.8	252.8	260.0
65°	301.2	251.0	175.7	161.4	195.4	240.2	260.0	227.7	184.7	181.1	181.1
67.5°	279.7	238.5	156.0	130.9	138.1	154.2	161.4	139.8	127.3	125.5	127.3
70°	231.3	199.0	125.5	89.6	84.3	82.5	86.1	80.7	77.1	78.9	84.3
72.5°	143.4	120.1	78.9	53.8	46.6	44.8	44.8	44.8	43.0	43.0	43.0
75°	52.0	44.8	35.9	26.9	23.3	21.5	21.5	23.3	21.5	19.7	17.9
77.5°	16.1	14.3	14.3	14.3	12.6	10.8	9.0	9.0	7.2	5.4	5.4
80°	9.0	9.0	9.0	9.0	7.2	7.2	5.4	3.6	1.8	1.8	0.0
82.5°	9.0	9.0	9.0	7.2	7.2	7.2	5.4	3.6	1.8	0.0	0.0
85°	7.2	7.2	7.2	7.2	7.2	7.2	5.4	3.6	1.8	0.0	0.0
87.5°	7.2	7.2	7.2	7.2	7.2	7.2	5.4	3.6	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)