

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: P630358

Luminaire Tested: GWS-SA1D-740-U-T3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630358  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1D-740-U-T3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4451.7 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

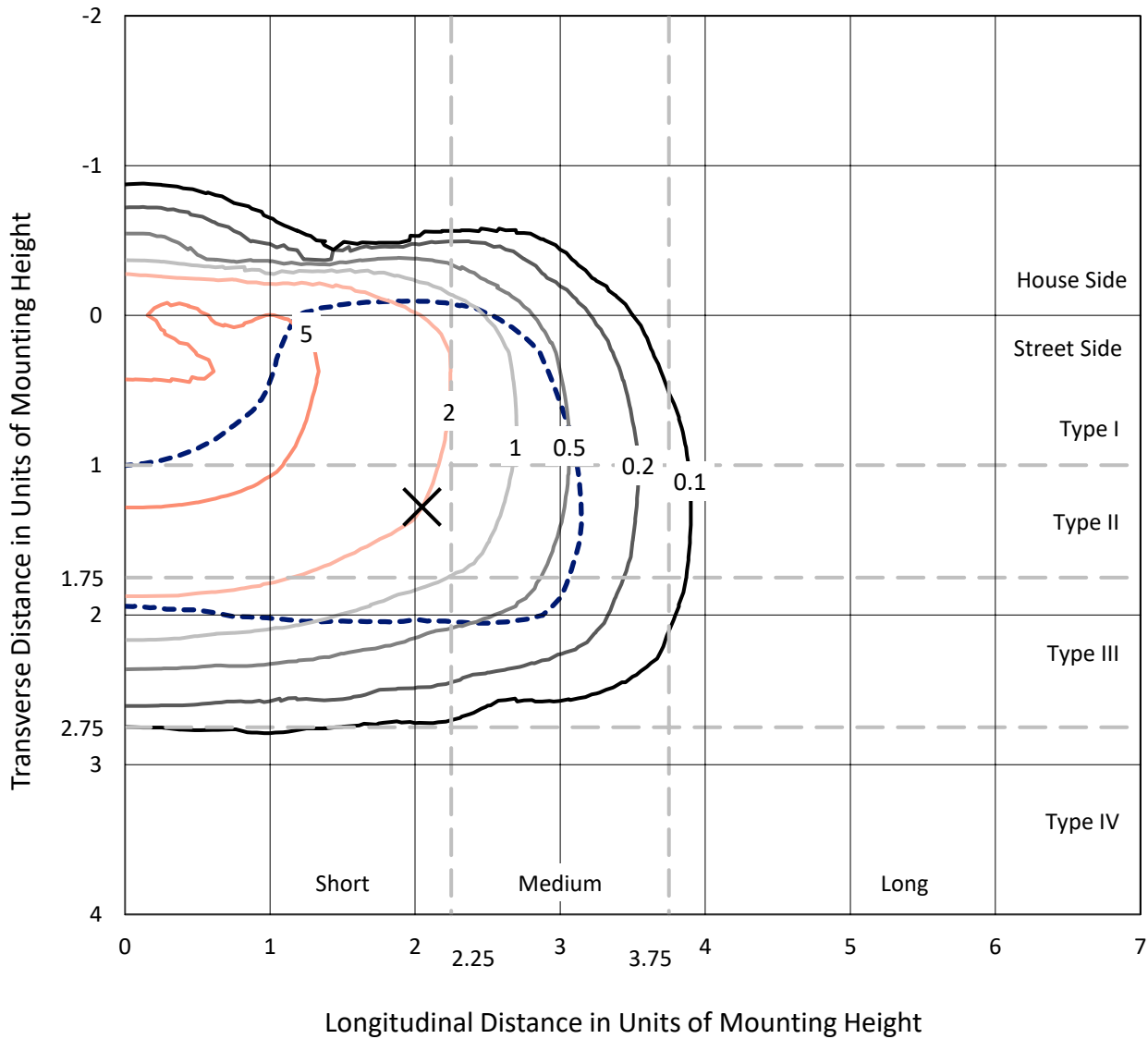
Input Watts (W): 44.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

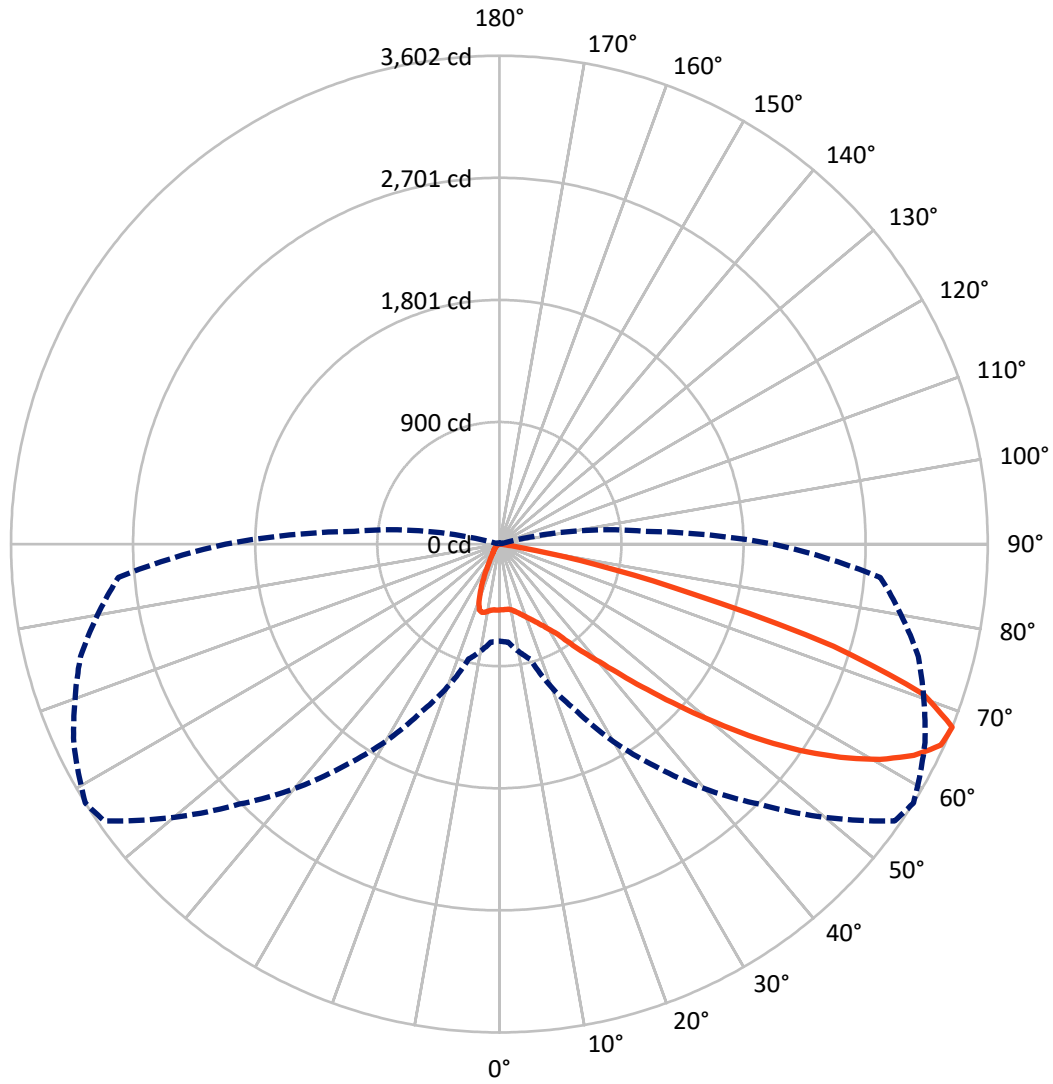
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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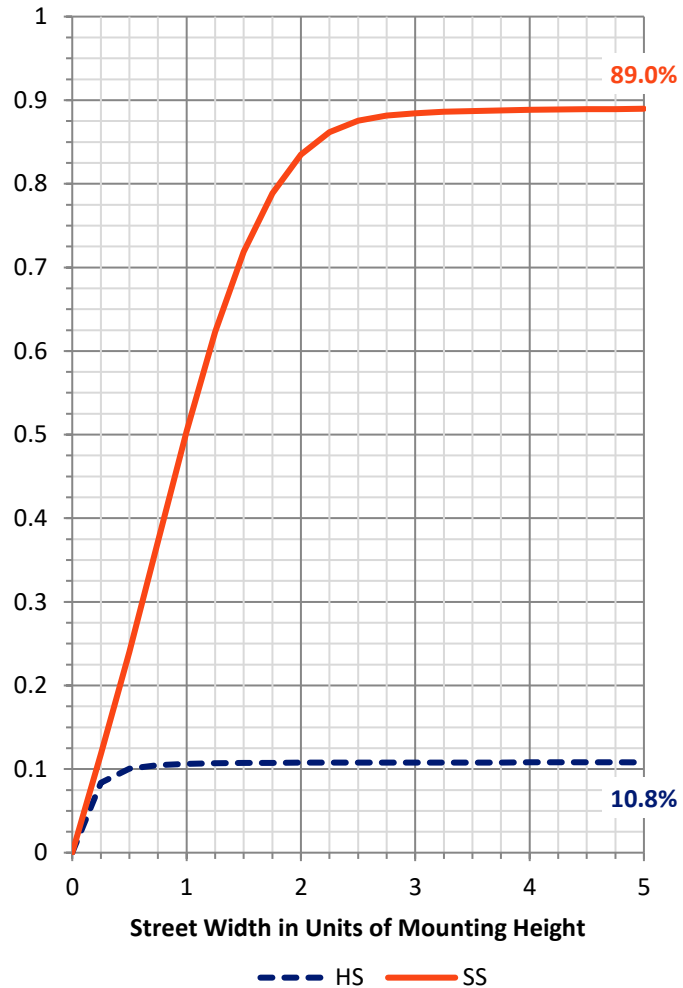
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	485.7	0.0	485.7
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	3966.0	0.0	3966.0
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	4451.7	0.0	4451.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.6	1.0
10°-20°	127.9	2.9
20°-30°	223.3	5.0
30°-40°	398.8	9.0
40°-50°	729.0	16.4
50°-60°	1212.4	27.2
60°-70°	1316.9	29.6
70°-80°	386.7	8.7
80°-90°	11.0	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°	4451.7	100.0
0°-180°	4451.7	100.0

**Coefficient of Utilization**



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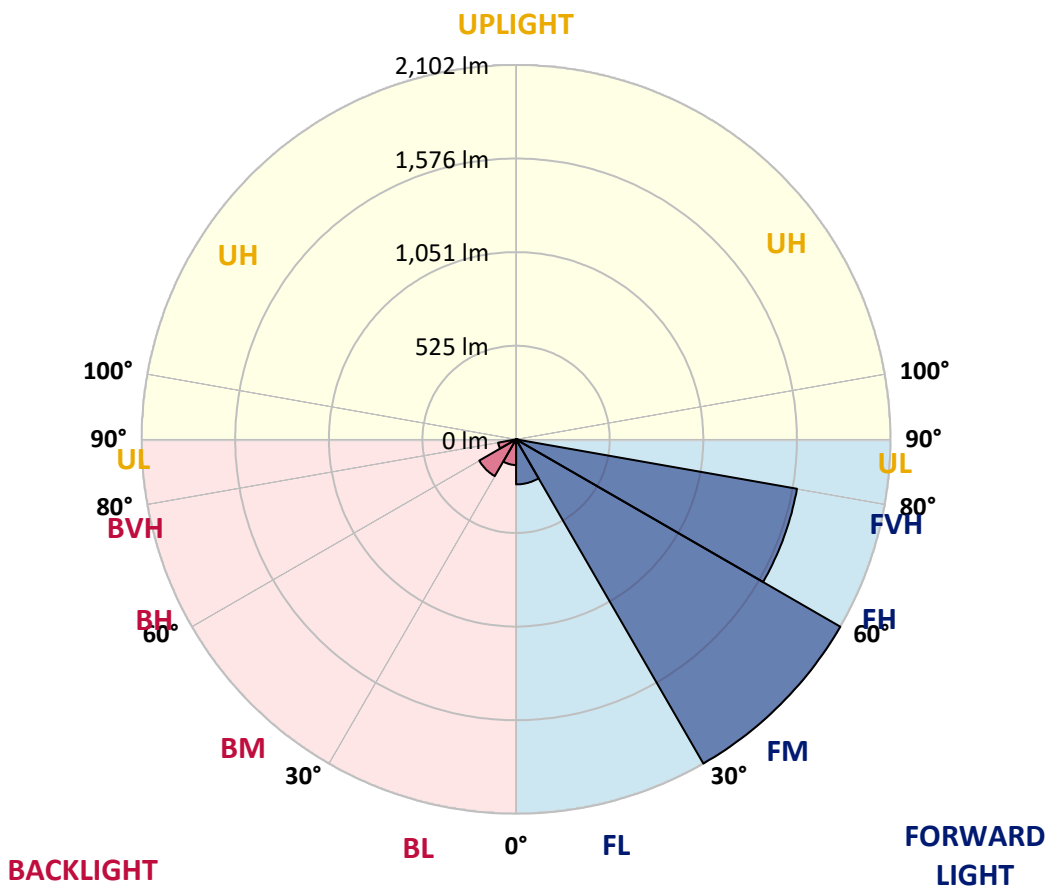
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	252.8	5.7			
FM (30°-60°)	2101.7	47.2			
FH (60°-80°)	1601.0	36.0			G1/1800
FVH (80°-90°)	10.5	0.2			G1/100
BL (0°-30°)	144.1	3.2	B1/500		
BM (30°-60°)	238.5	5.4	B1/1000		
BH (60°-80°)	102.5	2.3	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	485.1	485.1	485.1	485.1	485.1	485.1	485.1	485.1	485.1	485.1	485.1
2.5°	476.0	475.1	475.1	478.6	479.0	480.8	484.7	485.1	487.3	486.4	483.4
5°	451.2	451.6	454.2	460.3	465.5	472.1	481.6	483.8	488.6	491.2	489.4
7.5°	428.2	428.6	432.5	442.1	452.1	465.1	480.8	485.1	494.7	501.6	502.1
10°	419.5	419.0	422.9	433.8	446.9	465.1	487.7	493.4	507.7	519.9	522.1
12.5°	422.1	421.6	425.6	435.5	449.9	472.9	499.9	507.7	526.0	544.7	548.6
15°	432.5	432.1	434.7	442.9	458.6	482.5	515.5	527.3	550.3	572.9	579.0
17.5°	463.8	461.6	459.0	459.9	469.0	493.8	535.5	549.9	578.6	605.5	610.7
20°	519.4	513.8	506.8	497.7	493.4	510.3	558.6	575.1	609.9	640.7	641.6
22.5°	603.3	601.2	585.1	558.6	539.9	540.3	585.5	604.6	647.2	681.1	676.4
25°	720.3	719.0	694.2	650.7	602.0	585.5	619.9	639.4	691.6	727.7	712.4
27.5°	865.4	856.3	827.2	768.5	695.9	644.2	663.3	680.7	738.5	772.4	743.7
30°	991.9	992.4	965.0	903.7	822.0	732.4	716.4	731.6	781.6	817.2	782.4
32.5°	1113.6	1117.6	1087.6	1032.4	942.8	847.6	792.4	795.0	836.8	875.4	833.3
35°	1226.7	1229.7	1208.8	1161.9	1078.4	968.0	898.5	897.2	919.8	959.3	904.1
37.5°	1353.2	1356.2	1335.8	1293.6	1215.4	1105.8	1018.9	1017.1	1026.3	1058.4	995.4
40°	1487.9	1493.6	1471.0	1435.3	1360.5	1268.0	1158.9	1143.2	1134.1	1171.9	1113.6
42.5°	1624.4	1633.1	1625.3	1589.6	1525.7	1449.2	1340.6	1316.2	1296.6	1344.0	1282.3
45°	1793.9	1804.4	1800.9	1773.5	1723.9	1661.8	1559.2	1530.9	1521.8	1565.7	1492.3
47.5°	1956.9	1968.2	1980.8	1974.7	1939.5	1910.9	1797.0	1780.9	1778.3	1825.2	1711.3
50°	2078.2	2088.6	2136.9	2171.7	2195.6	2189.5	2090.8	2066.9	2063.0	2093.0	1942.6
52.5°	2165.1	2175.1	2241.6	2350.3	2438.1	2485.9	2386.4	2381.2	2359.9	2349.4	2159.1
55°	2232.5	2246.4	2316.4	2480.7	2657.6	2763.7	2701.5	2682.8	2628.1	2568.1	2359.9
57.5°	2246.0	2251.6	2350.3	2572.0	2828.0	2999.7	2999.7	2967.1	2861.5	2778.5	2592.0
60°	2125.1	2142.5	2276.0	2564.6	2901.1	3154.0	3247.1	3224.5	3081.9	2979.7	2815.4
62.5°	1857.0	1876.5	2039.1	2387.7	2828.0	3185.8	3434.4	3430.9	3270.1	3146.2	3000.6
65°	1424.0	1438.4	1580.1	1997.4	2519.4	3063.6	3568.3	3577.8	3418.8	3256.2	3064.5
67.5°	715.5	725.5	878.5	1364.5	1996.9	2712.0	3559.2	3601.8	3464.0	3197.9	2820.6
70°	249.9	259.9	332.1	585.5	1215.4	2070.8	3251.4	3321.0	3198.4	2729.8	2080.8
72.5°	85.6	90.4	137.8	217.3	472.9	1227.5	2472.5	2577.2	2357.7	1832.6	1195.8
75°	48.7	51.7	73.9	117.8	198.2	403.8	1402.7	1467.0	1374.5	998.9	492.1
77.5°	33.0	35.6	46.1	66.9	109.5	130.0	572.0	720.3	628.1	326.0	125.6
80°	19.6	21.3	28.3	39.6	56.1	50.4	122.6	163.0	210.0	97.4	37.8
82.5°	9.1	10.4	18.3	26.1	28.3	21.3	36.1	43.9	59.1	47.8	15.6
85°	0.0	0.0	6.1	10.9	10.4	6.1	10.0	10.9	16.1	23.9	6.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.9	1.3	2.6	4.8	2.6
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°	485.1	485.1	485.1	485.1	485.1	485.1	485.1	485.1	485.1	485.1	485.1
2.5°	486.8	483.8	487.3	485.5	487.3	486.8	483.4	481.2	481.2	477.3	476.0
5°	492.9	489.9	490.8	486.8	486.0	483.8	479.5	477.7	477.7	473.8	472.5
7.5°	506.4	501.6	500.8	492.9	489.4	483.4	475.5	472.5	472.1	468.1	466.8
10°	527.7	522.1	518.1	508.1	498.1	486.0	469.5	455.5	447.7	437.3	436.4
12.5°	553.8	546.8	540.7	525.5	509.0	481.6	432.9	382.1	350.8	326.0	327.7
15°	582.9	576.4	566.8	543.8	509.9	438.6	336.9	258.6	220.4	200.0	199.1
17.5°	614.6	605.1	589.4	558.1	482.5	335.1	219.1	154.7	134.8	127.8	126.1
20°	644.2	632.5	612.9	561.2	403.4	226.9	136.9	120.0	116.5	114.3	114.3
22.5°	675.5	660.7	631.6	537.7	299.9	145.2	116.5	112.6	110.0	106.9	106.5
25°	707.2	688.1	648.5	476.4	196.5	114.3	109.1	104.8	100.0	95.2	93.9
27.5°	734.2	709.4	661.6	385.1	126.1	103.0	99.5	92.2	85.6	80.4	79.5
30°	766.3	734.6	667.2	281.7	99.1	90.8	85.6	77.8	70.0	64.8	63.0
32.5°	809.4	774.6	658.5	183.4	87.8	80.0	71.7	62.6	54.8	49.1	48.2
35°	876.3	835.0	618.5	116.9	79.5	69.1	59.1	49.6	43.0	38.7	37.8
37.5°	958.0	919.8	552.9	87.8	71.3	60.0	48.2	39.1	34.3	31.3	30.4
40°	1079.3	1025.8	471.6	76.9	63.0	50.9	39.6	32.2	28.7	26.1	25.2
42.5°	1236.7	1151.0	378.2	70.0	55.2	42.6	32.2	26.5	23.5	21.7	21.3
45°	1420.5	1273.2	279.5	63.0	47.8	35.2	26.5	21.7	19.6	18.3	17.8
47.5°	1608.7	1380.1	193.0	55.6	40.9	29.1	22.2	18.7	17.0	15.2	14.8
50°	1809.6	1470.5	131.7	48.2	34.8	23.9	19.1	17.0	14.8	13.5	13.0
52.5°	1956.9	1504.0	91.7	41.7	29.6	20.4	17.0	15.2	13.5	11.7	11.3
55°	2093.0	1503.1	69.5	35.2	25.2	17.8	15.2	13.5	11.7	10.4	10.0
57.5°	2228.6	1491.4	54.8	30.0	21.7	16.1	13.5	11.7	10.9	9.1	8.7
60°	2316.4	1447.0	42.6	25.2	18.7	13.9	11.7	10.4	9.1	7.8	7.4
62.5°	2362.9	1385.3	32.6	20.0	15.2	12.2	10.4	9.1	7.8	6.5	6.1
65°	2299.9	1275.8	25.6	15.6	11.7	10.4	8.7	7.4	6.1	4.8	4.3
67.5°	2020.4	1075.8	20.0	12.6	9.1	7.8	7.4	6.1	4.3	3.5	3.0
70°	1427.9	736.8	15.6	9.6	7.0	6.1	5.7	4.8	3.5	2.6	2.2
72.5°	783.7	371.7	11.3	7.0	5.2	4.8	4.3	3.9	3.0	2.2	2.2
75°	301.7	102.1	8.3	4.8	3.5	3.5	3.0	3.0	2.6	1.7	1.7
77.5°	78.7	30.4	5.2	3.0	2.2	2.2	2.2	1.7	1.7	1.3	1.3
80°	25.2	10.0	3.0	2.2	1.7	1.3	1.3	0.9	1.3	0.9	0.9
82.5°	8.3	3.5	1.7	1.7	1.3	0.9	0.9	0.4	0.4	0.0	0.0
85°	3.0	1.7	1.3	0.9	0.9	0.9	0.4	0.0	0.0	0.0	0.0
87.5°	1.7	0.9	0.9	0.9	0.9	0.4	0.0	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)