

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: P629307

Luminaire Tested: GWS-SA1B-735-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629307  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1B-735-U-T2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2647.8 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1

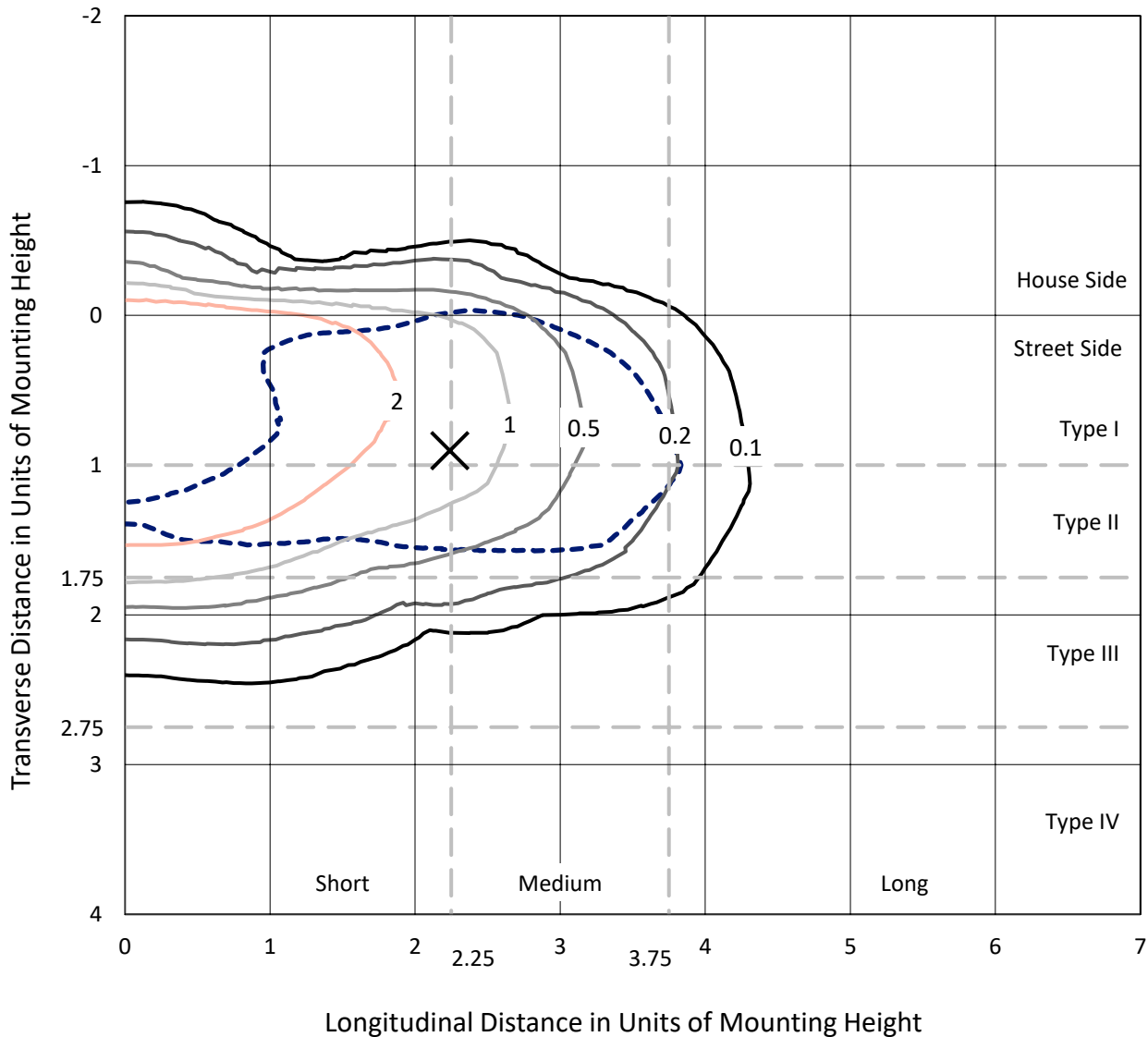
Input Watts (W): 25  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

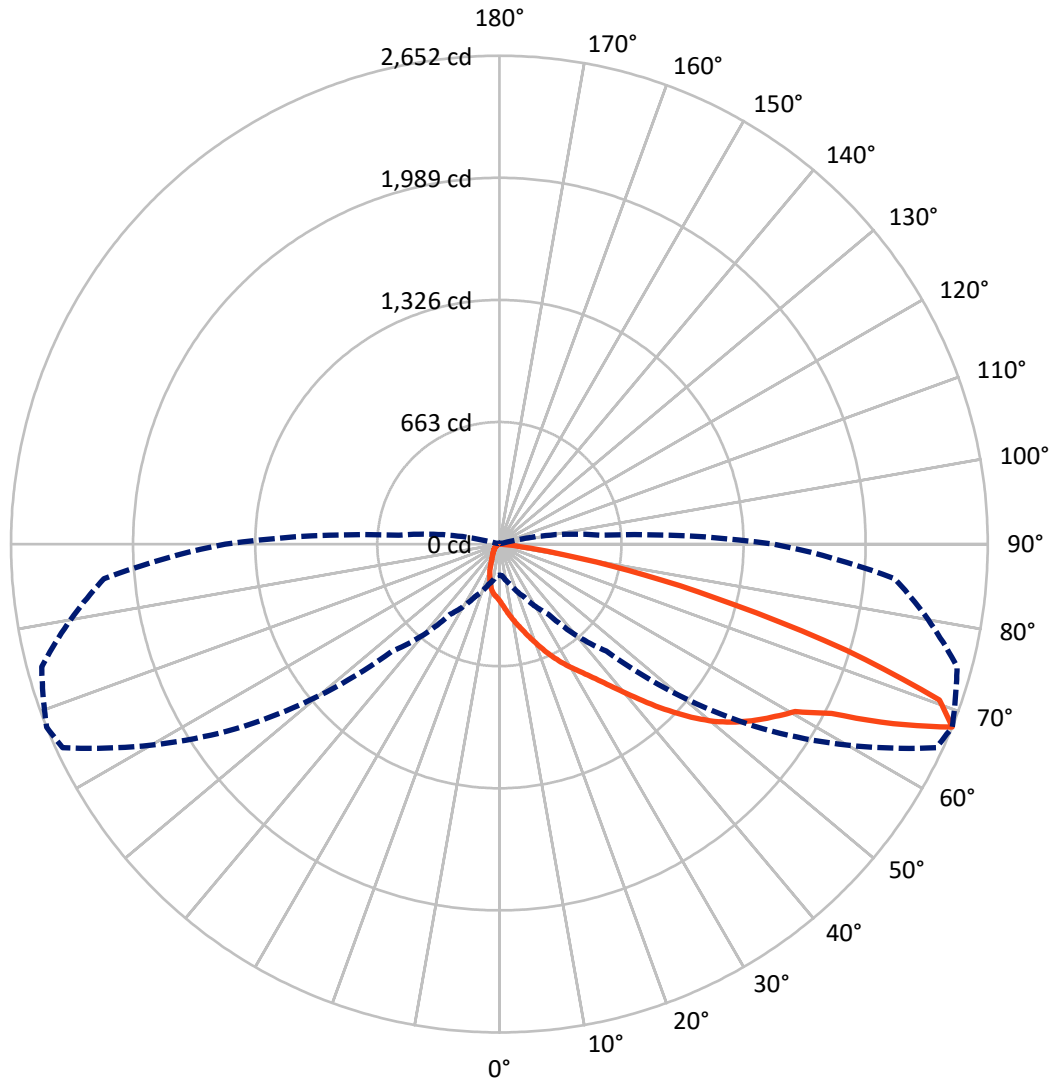
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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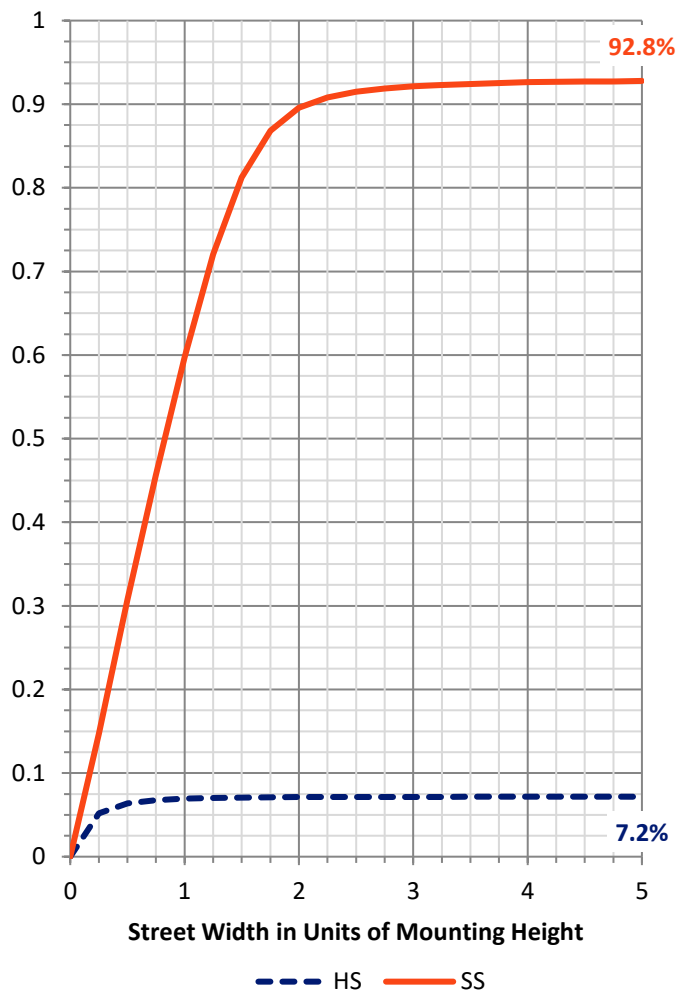
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	191.2	0.0	191.2
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	2456.6	0.0	2456.6
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	2647.8	0.0	2647.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.1	1.1
10°-20°	86.3	3.3
20°-30°	148.3	5.6
30°-40°	257.9	9.7
40°-50°	449.9	17.0
50°-60°	678.6	25.6
60°-70°	680.5	25.7
70°-80°	300.2	11.3
80°-90°	16.0	0.6
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°	2647.8	100.0
0°-180°	2647.8	100.0

**Coefficient of Utilization**



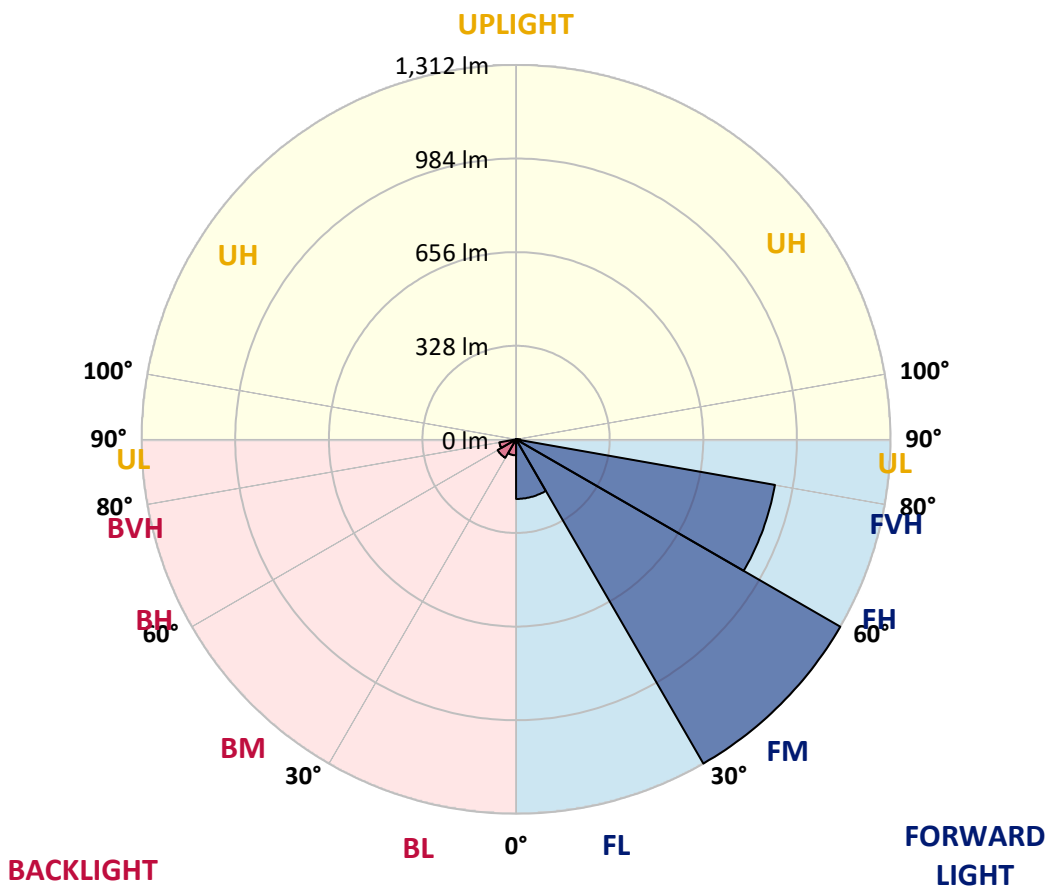
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	208.7	7.9			
FM (30°-60°)	1311.7	49.5			
FH (60°-80°)	921.0	34.8			G1/1800
FVH (80°-90°)	15.1	0.6			G1/100
BL (0°-30°)	55.9	2.1	B0/110		
BM (30°-60°)	74.7	2.8	B0/220		
BH (60°-80°)	59.7	2.3	B0/110		G0/110
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1
2.5°	358.8	361.1	358.8	359.3	352.7	349.7	343.1	334.0	331.7	325.9	317.0
5°	402.7	404.7	402.4	401.9	394.3	388.7	377.8	362.1	357.5	346.1	328.7
7.5°	426.5	427.7	428.5	429.8	427.0	422.4	412.5	393.0	388.2	369.7	345.1
10°	429.0	430.0	433.8	441.4	447.0	449.8	444.2	426.2	418.6	400.6	365.4
12.5°	421.9	423.4	429.5	442.2	457.6	471.8	475.4	459.7	452.8	429.8	389.2
15°	412.5	413.8	422.2	439.4	462.7	488.8	503.5	496.7	489.1	465.0	415.6
17.5°	398.1	399.9	411.5	434.8	465.0	502.2	533.9	536.2	530.9	504.8	444.7
20°	390.0	391.3	401.6	425.7	463.5	512.1	562.3	583.8	578.0	550.6	478.2
22.5°	396.8	397.8	404.7	423.4	458.4	517.7	588.7	631.5	628.2	599.8	513.4
25°	432.8	436.1	432.1	435.3	460.7	520.7	609.9	679.1	679.9	651.2	549.9
27.5°	505.8	501.5	491.9	475.4	478.4	528.8	628.2	724.0	730.6	701.4	582.3
30°	580.0	577.5	571.7	546.1	524.8	546.8	643.6	769.8	780.2	750.8	611.2
32.5°	663.4	665.9	655.6	624.9	588.7	583.3	659.6	813.4	832.9	806.8	645.2
35°	763.0	763.8	743.2	709.3	668.2	643.6	688.2	861.6	897.5	878.3	690.5
37.5°	860.0	864.6	853.5	800.0	763.5	718.6	735.6	923.4	974.1	966.5	747.5
40°	945.9	953.0	949.5	897.8	849.9	812.2	809.1	995.9	1066.6	1075.2	822.8
42.5°	1014.4	1018.9	1021.7	985.0	942.7	921.4	899.8	1080.0	1175.8	1211.0	915.0
45°	1086.6	1088.1	1093.9	1069.1	1032.1	1033.9	1007.0	1182.1	1290.8	1361.5	1021.0
47.5°	1178.6	1183.6	1180.9	1154.8	1121.3	1141.3	1117.8	1287.3	1404.4	1522.2	1129.4
50°	1290.6	1295.9	1293.4	1263.0	1225.7	1234.1	1219.4	1389.4	1513.8	1673.7	1219.6
52.5°	1348.4	1352.7	1384.1	1397.8	1378.3	1325.0	1306.0	1501.7	1606.3	1798.4	1302.5
55°	1320.5	1323.5	1391.9	1449.7	1521.2	1468.0	1393.2	1588.3	1687.9	1895.7	1364.1
57.5°	1204.9	1221.4	1314.4	1412.2	1562.5	1609.1	1534.6	1682.6	1766.5	1963.4	1424.6
60°	968.0	967.2	1100.5	1276.1	1481.9	1647.9	1734.3	1810.0	1845.3	2015.3	1505.7
62.5°	534.9	539.7	717.1	948.5	1257.9	1547.5	1884.0	2030.3	2024.9	2106.0	1632.7
65°	266.3	276.0	372.2	543.3	837.0	1278.9	1909.9	2366.3	2351.1	2319.6	1894.9
67.5°	169.0	172.8	226.0	315.7	465.2	822.0	1749.0	2616.9	2652.1	2573.0	2155.2
70°	109.5	115.8	157.1	215.9	280.8	423.7	1281.2	2454.4	2535.3	2545.2	1993.0
72.5°	59.5	64.1	100.3	154.1	202.7	211.8	719.7	1842.0	1972.0	2159.0	1559.2
75°	34.0	37.3	55.0	104.7	148.7	129.0	319.0	1233.1	1315.9	1543.0	1117.2
77.5°	20.5	23.3	30.9	50.9	93.3	86.2	120.6	750.6	803.3	920.6	586.4
80°	9.4	11.1	19.5	28.1	50.9	40.8	46.1	349.9	361.4	377.8	194.1
82.5°	4.3	5.1	8.9	16.7	28.9	23.6	17.7	80.8	113.8	107.7	49.4
85°	0.5	0.5	3.3	6.8	8.1	6.1	7.3	18.2	23.1	32.4	14.2
87.5°	0.0	0.0	0.3	0.3	0.5	0.8	1.5	2.3	3.3	5.3	3.5
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°	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1
2.5°	313.0	305.9	299.5	290.1	283.8	276.7	271.9	266.1	263.8	262.0	259.5
5°	320.0	308.6	293.2	276.0	261.8	248.3	235.9	227.8	220.7	219.7	216.2
7.5°	331.7	314.7	288.6	260.5	236.4	214.1	196.6	182.4	175.4	173.1	169.0
10°	347.2	323.8	281.8	238.7	204.0	177.4	157.6	141.7	130.5	126.4	123.4
12.5°	364.4	332.2	270.9	211.8	172.3	141.9	116.8	99.8	92.7	90.2	87.9
15°	384.2	340.1	253.7	185.0	141.4	104.4	86.7	79.3	76.3	75.5	74.8
17.5°	403.2	345.1	233.1	157.1	108.7	81.1	72.7	69.9	69.2	68.4	67.9
20°	424.7	348.7	209.1	130.8	84.4	68.7	64.6	62.6	61.1	59.5	59.3
22.5°	446.7	348.7	183.0	104.9	70.7	61.6	57.0	53.2	50.4	48.9	48.4
25°	467.8	343.9	157.1	83.9	62.3	54.7	48.9	44.6	40.8	39.0	38.5
27.5°	482.7	331.4	134.6	71.0	56.5	48.7	41.6	36.7	33.7	31.9	31.7
30°	492.1	313.0	113.8	63.4	51.4	42.3	35.2	31.2	28.9	27.6	27.1
32.5°	499.2	290.1	95.3	58.0	46.6	36.7	30.7	27.4	25.3	24.3	24.1
35°	513.4	268.6	81.6	53.2	41.6	32.2	26.9	24.3	22.8	21.5	21.3
37.5°	533.2	250.6	70.7	48.9	36.7	28.6	24.3	22.0	20.8	19.5	19.3
40°	562.3	239.2	62.6	44.6	32.4	25.8	22.3	20.3	18.5	17.2	17.0
42.5°	607.2	233.9	57.3	40.3	28.6	23.3	20.5	18.0	16.2	15.0	14.7
45°	660.6	236.7	52.7	36.0	26.1	21.5	18.2	15.7	13.9	12.7	12.4
47.5°	717.9	246.6	48.9	31.9	23.6	19.8	16.2	13.4	11.9	10.6	10.4
50°	777.7	262.8	45.6	28.1	21.5	17.7	13.9	11.7	10.1	9.1	8.9
52.5°	829.6	284.8	42.3	25.3	19.8	15.7	12.2	10.1	8.6	7.6	7.3
55°	879.3	305.6	39.8	22.8	17.7	13.7	10.6	8.6	7.3	6.3	6.1
57.5°	933.3	327.6	36.7	20.5	16.0	12.2	9.4	7.3	6.3	5.3	5.1
60°	1011.8	360.3	32.2	18.8	13.9	10.6	8.1	6.6	5.6	4.3	4.1
62.5°	1125.1	419.9	27.1	16.2	11.9	9.1	6.8	5.6	4.6	3.5	3.0
65°	1336.9	521.2	22.3	13.4	9.6	7.6	5.8	4.6	3.5	2.5	2.3
67.5°	1489.5	547.6	18.0	10.9	7.9	5.8	4.8	3.5	2.5	1.8	1.5
70°	1302.2	393.3	13.9	8.9	6.6	4.6	3.8	2.8	1.8	1.3	1.0
72.5°	981.2	256.9	10.4	6.8	5.1	3.8	2.8	2.3	1.5	1.0	0.8
75°	691.5	148.5	7.6	5.1	3.5	2.8	2.3	1.8	1.3	0.8	0.8
77.5°	354.5	61.3	5.3	3.5	2.5	1.8	1.5	1.0	1.0	0.8	0.5
80°	107.7	20.3	3.0	2.3	1.8	1.3	0.8	0.8	0.8	0.5	0.3
82.5°	24.6	6.6	1.8	1.8	1.3	1.0	0.8	0.3	0.3	0.0	0.0
85°	6.3	2.0	1.5	1.3	1.3	1.0	0.5	0.3	0.0	0.0	0.0
87.5°	2.3	1.3	1.3	1.3	1.0	0.8	0.5	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)