

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: P628811

Luminaire Tested: GWS-SA1A-735-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628811
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-735-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2338.4 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

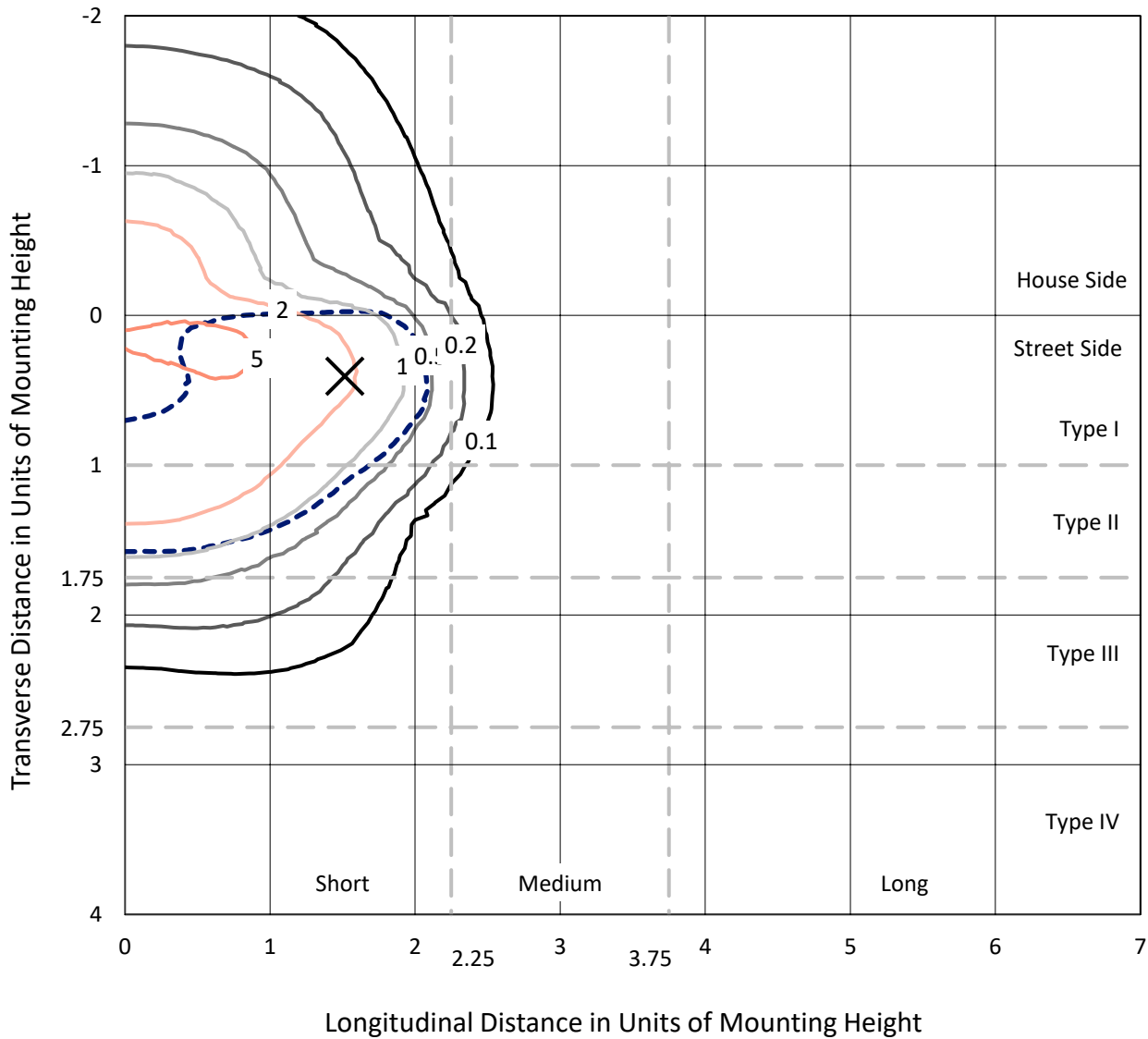
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

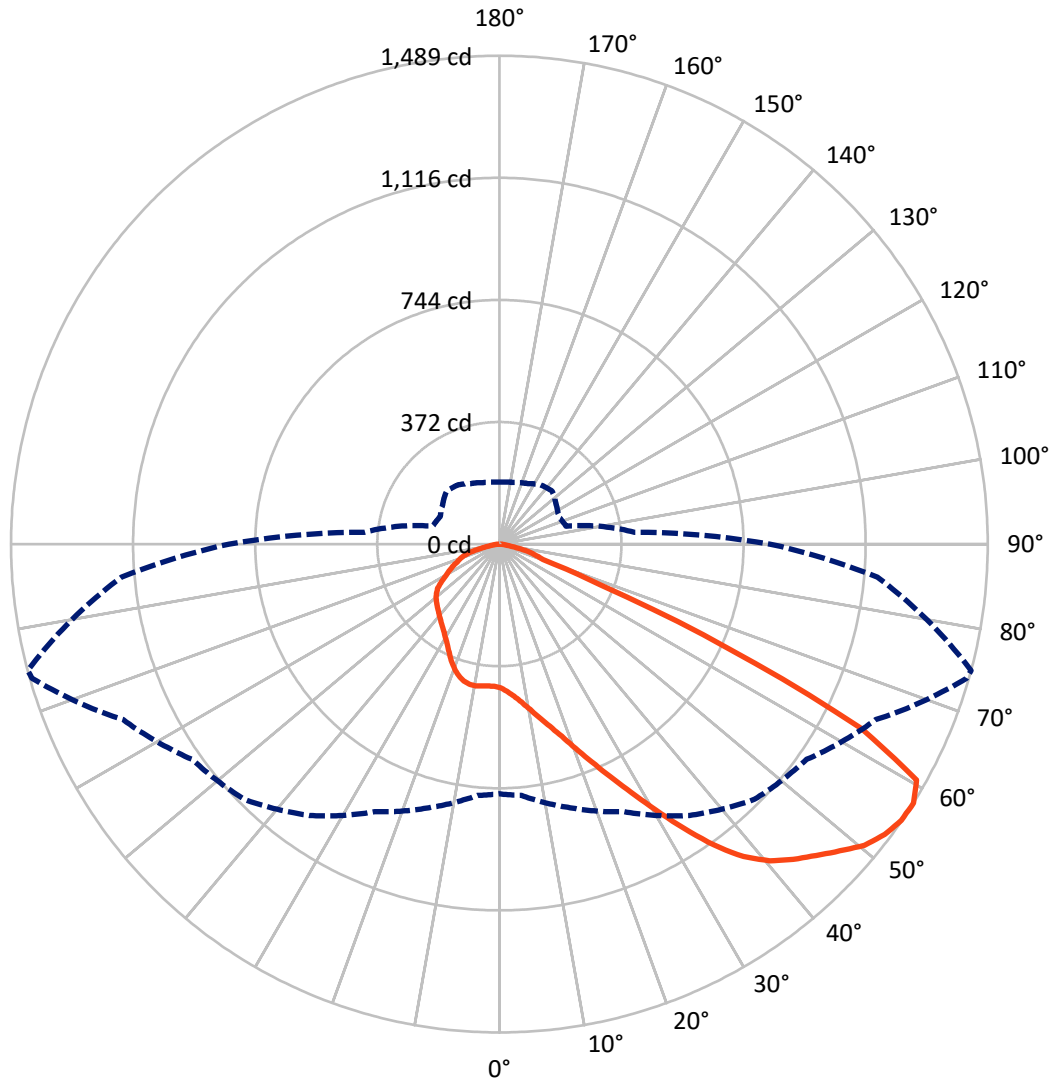
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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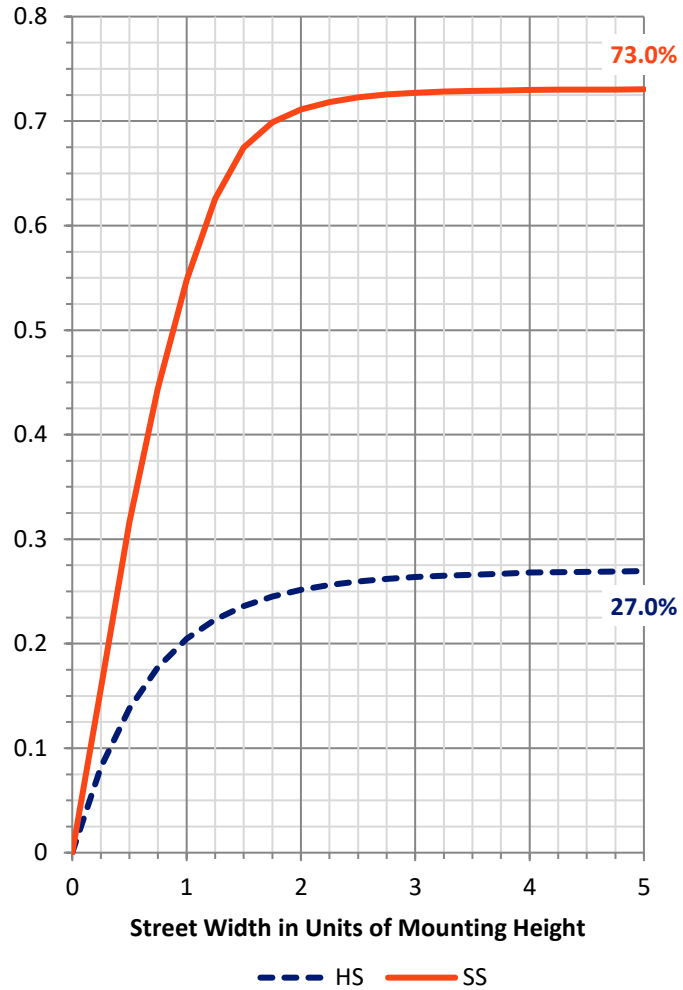
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	632.6	0.0	632.6
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	1705.8	0.0	1705.8
	% Fixture	72.9	0.0	72.9
Total	Lumens	2338.4	0.0	2338.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.8	1.9
10°-20°	139.5	6.0
20°-30°	247.4	10.6
30°-40°	378.8	16.2
40°-50°	527.4	22.6
50°-60°	604.3	25.8
60°-70°	310.5	13.3
70°-80°	78.2	3.3
80°-90°	8.4	0.4
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°	2338.4	100.0
0°-180°	2338.4	100.0

Coefficient of Utilization



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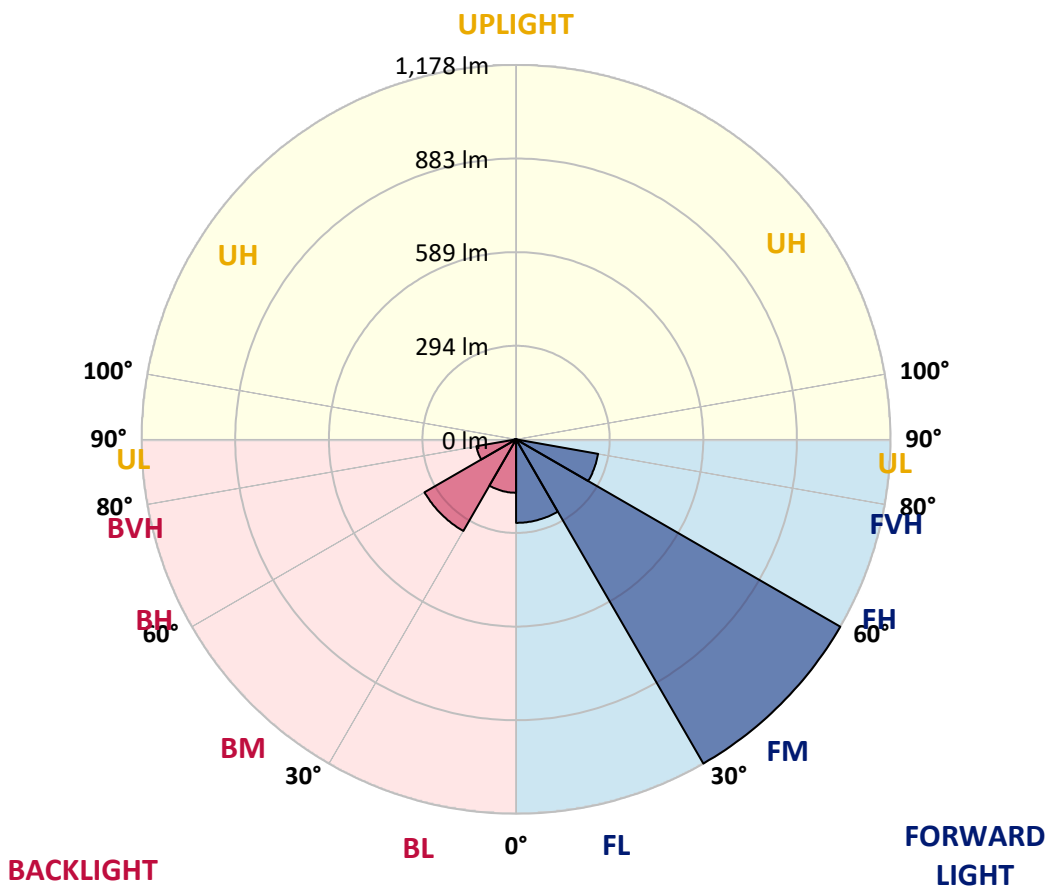
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	262.7	11.2			
FM (30°-60°)	1177.9	50.4			
FH (60°-80°)	262.1	11.2			G0/660
FVH (80°-90°)	3.1	0.1			G0/10
BL (0°-30°)	168.1	7.2	B1/500		
BM (30°-60°)	332.7	14.2	B1/1000		
BH (60°-80°)	126.6	5.4	B1/500		G1/500
BVH (80°-90°)	5.3	0.2			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	437.9	437.9	437.9	437.9	437.9	437.9	437.9	437.9	437.9	437.9	437.9
2.5°	470.5	471.7	470.5	472.5	468.5	466.7	462.3	455.6	450.4	449.6	443.8
5°	507.1	509.7	508.1	507.3	501.9	497.8	491.2	477.9	467.1	465.5	454.0
7.5°	530.6	532.4	532.4	533.0	531.0	526.4	519.4	503.7	488.4	486.0	468.7
10°	538.5	539.9	542.5	547.5	551.5	552.9	548.3	533.2	514.5	512.1	488.0
12.5°	540.3	541.9	545.9	555.1	566.2	576.3	577.1	566.0	545.1	542.5	510.3
15°	543.7	545.3	550.7	562.2	578.5	597.8	609.6	602.0	578.9	576.1	535.6
17.5°	543.3	545.1	553.1	568.4	590.3	618.3	641.2	644.4	620.5	615.7	564.4
20°	542.3	543.9	552.5	571.2	598.4	636.8	678.2	694.9	669.2	664.7	598.0
22.5°	550.3	552.1	558.8	574.3	602.6	651.1	712.4	752.6	726.9	720.6	636.6
25°	568.4	571.0	575.1	585.7	610.2	663.7	747.4	817.9	791.6	784.2	678.6
27.5°	596.4	599.6	605.2	610.2	627.3	679.8	782.2	891.1	864.8	857.0	723.0
30°	630.5	634.8	642.0	645.4	657.1	703.5	820.0	966.5	951.3	940.4	773.1
32.5°	677.8	683.6	690.5	691.5	698.5	739.5	857.4	1041.3	1041.1	1033.5	830.0
35°	739.3	745.6	747.0	748.4	751.8	789.0	902.6	1109.5	1135.8	1127.0	891.9
37.5°	806.5	815.5	817.7	811.5	816.3	848.5	953.5	1164.2	1218.3	1208.8	951.9
40°	878.3	881.9	887.9	878.1	884.1	916.7	1003.3	1199.2	1279.8	1269.7	999.1
42.5°	929.7	936.4	945.4	941.8	945.2	975.0	1038.3	1216.1	1323.6	1313.6	1033.1
45°	985.6	987.6	993.5	992.7	994.7	1022.4	1063.4	1223.5	1362.8	1353.8	1062.0
47.5°	1034.3	1037.3	1041.1	1036.7	1032.3	1050.4	1084.0	1229.9	1408.1	1397.2	1092.4
50°	1081.1	1083.8	1088.4	1075.5	1059.0	1063.6	1094.0	1238.8	1450.5	1442.9	1116.3
52.5°	1089.8	1092.6	1114.3	1116.9	1095.8	1079.5	1111.7	1258.3	1475.4	1470.6	1125.0
55°	981.0	986.0	1029.3	1078.9	1131.0	1125.8	1140.1	1268.5	1485.3	1486.5	1140.5
57.5°	761.4	768.7	831.8	900.0	1009.6	1100.2	1143.7	1265.9	1481.9	1488.5	1156.3
60°	499.5	503.7	578.5	654.9	768.5	893.9	1023.6	1218.9	1451.5	1461.0	1152.3
62.5°	301.6	306.4	366.5	424.5	491.4	575.3	694.3	979.6	1216.7	1237.8	922.9
65°	210.5	217.0	269.6	317.3	340.4	323.1	351.7	547.1	758.0	766.9	564.0
67.5°	152.6	157.0	200.3	257.0	282.5	228.2	173.9	242.3	330.2	333.4	232.6
70°	99.9	105.0	144.2	195.6	230.6	185.0	130.1	131.1	138.9	140.5	135.1
72.5°	54.9	57.9	89.1	129.9	136.3	110.6	101.5	109.0	114.4	114.4	115.8
75°	28.4	31.0	36.4	42.8	51.7	60.5	73.2	84.2	90.1	90.5	89.9
77.5°	14.5	15.5	19.5	21.1	23.1	26.9	35.0	44.8	50.1	52.1	51.7
80°	6.8	7.2	8.2	9.7	11.9	15.1	18.9	22.5	25.7	26.1	28.4
82.5°	3.6	4.0	4.4	5.2	6.4	8.0	11.1	13.3	15.3	15.7	17.5
85°	1.4	1.6	1.8	2.0	2.8	3.4	4.6	6.2	7.6	7.6	9.0
87.5°	0.0	0.0	0.0	0.0	0.2	0.4	0.8	1.0	1.4	1.4	2.4
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°	437.9	437.9	437.9	437.9	437.9	437.9	437.9	437.9	437.9	437.9	437.9
2.5°	442.3	436.5	433.9	429.7	426.3	422.4	419.4	417.2	415.8	415.0	414.2
5°	449.6	440.7	433.7	425.3	419.4	413.8	409.2	406.0	404.3	403.1	402.3
7.5°	460.8	449.0	435.7	422.6	412.4	403.3	397.5	394.1	391.9	391.1	390.5
10°	476.3	459.8	437.9	417.2	401.9	392.1	388.1	386.5	386.7	386.3	386.1
12.5°	493.8	471.3	437.3	407.6	390.7	384.8	385.0	387.7	390.7	391.5	391.7
15°	512.7	482.6	431.5	395.1	381.8	382.4	387.7	393.9	399.5	401.7	402.1
17.5°	533.2	492.0	420.8	381.4	374.6	381.0	390.7	400.9	409.2	412.8	413.8
20°	556.2	500.1	405.8	368.0	367.8	378.4	392.5	406.0	416.4	421.2	422.0
22.5°	580.5	505.1	387.3	355.5	360.7	375.0	391.1	405.2	416.2	421.0	422.0
25°	605.0	506.7	366.9	344.0	353.5	369.6	384.2	395.5	406.0	410.2	411.0
27.5°	627.9	502.1	347.6	334.2	346.8	361.5	371.4	377.4	384.6	387.9	388.5
30°	651.3	492.8	331.4	326.3	339.4	350.5	354.9	355.3	358.1	358.1	358.5
32.5°	674.8	479.1	317.1	318.7	330.2	337.4	338.0	333.4	330.0	324.3	324.1
35°	701.9	465.3	305.4	310.0	319.3	323.7	321.9	313.1	304.8	295.6	295.2
37.5°	727.1	451.0	295.6	301.2	307.0	310.2	306.0	295.4	288.5	279.1	277.7
40°	747.8	438.1	286.1	292.0	294.8	297.6	290.7	282.1	283.1	277.9	277.7
42.5°	759.8	425.7	277.3	281.7	283.5	285.5	279.5	273.1	278.5	274.5	274.7
45°	768.7	414.8	269.2	270.8	275.3	278.3	272.6	265.4	266.6	251.1	247.5
47.5°	778.7	408.8	261.6	260.0	267.8	273.1	264.4	253.9	246.7	231.4	230.0
50°	789.4	406.6	253.5	249.1	258.6	263.6	253.5	240.5	231.0	222.8	222.0
52.5°	793.0	406.4	243.5	236.1	245.5	252.5	244.1	230.8	219.6	211.5	211.1
55°	807.3	412.2	230.6	218.2	227.0	241.5	235.2	216.1	207.1	203.5	203.1
57.5°	824.0	413.2	210.3	198.7	210.9	228.0	220.2	203.7	193.8	189.4	189.0
60°	817.1	388.5	188.6	183.8	197.2	215.3	208.1	193.8	182.4	178.1	177.7
62.5°	622.7	274.3	172.7	170.9	182.6	197.0	195.6	180.8	169.9	166.9	166.5
65°	374.6	192.6	157.4	157.2	165.5	179.4	181.2	169.1	157.6	153.4	153.4
67.5°	185.2	147.4	140.1	139.1	144.4	154.2	161.9	152.0	142.4	138.3	137.7
70°	130.9	129.9	127.5	124.7	125.7	129.7	132.9	124.7	114.4	110.4	109.6
72.5°	113.2	113.4	111.8	109.6	108.8	106.0	103.1	97.1	90.9	86.7	87.1
75°	87.9	88.3	89.3	88.5	86.3	83.2	80.2	72.6	67.6	63.5	62.7
77.5°	51.3	53.3	56.5	55.7	56.1	51.9	50.7	43.2	38.6	35.8	35.2
80°	29.0	30.2	31.6	32.6	31.4	29.6	26.9	22.9	21.5	19.5	19.1
82.5°	17.5	18.7	19.3	20.1	19.7	17.3	15.3	12.7	11.5	10.5	10.3
85°	8.8	9.7	10.3	10.7	9.5	7.8	7.0	5.6	4.8	4.2	4.2
87.5°	2.2	2.4	2.8	2.4	2.2	1.0	0.8	0.2	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)