

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: P631407

Luminaire Tested: GWS-SA1F-750-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631407
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-750-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6746.3 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

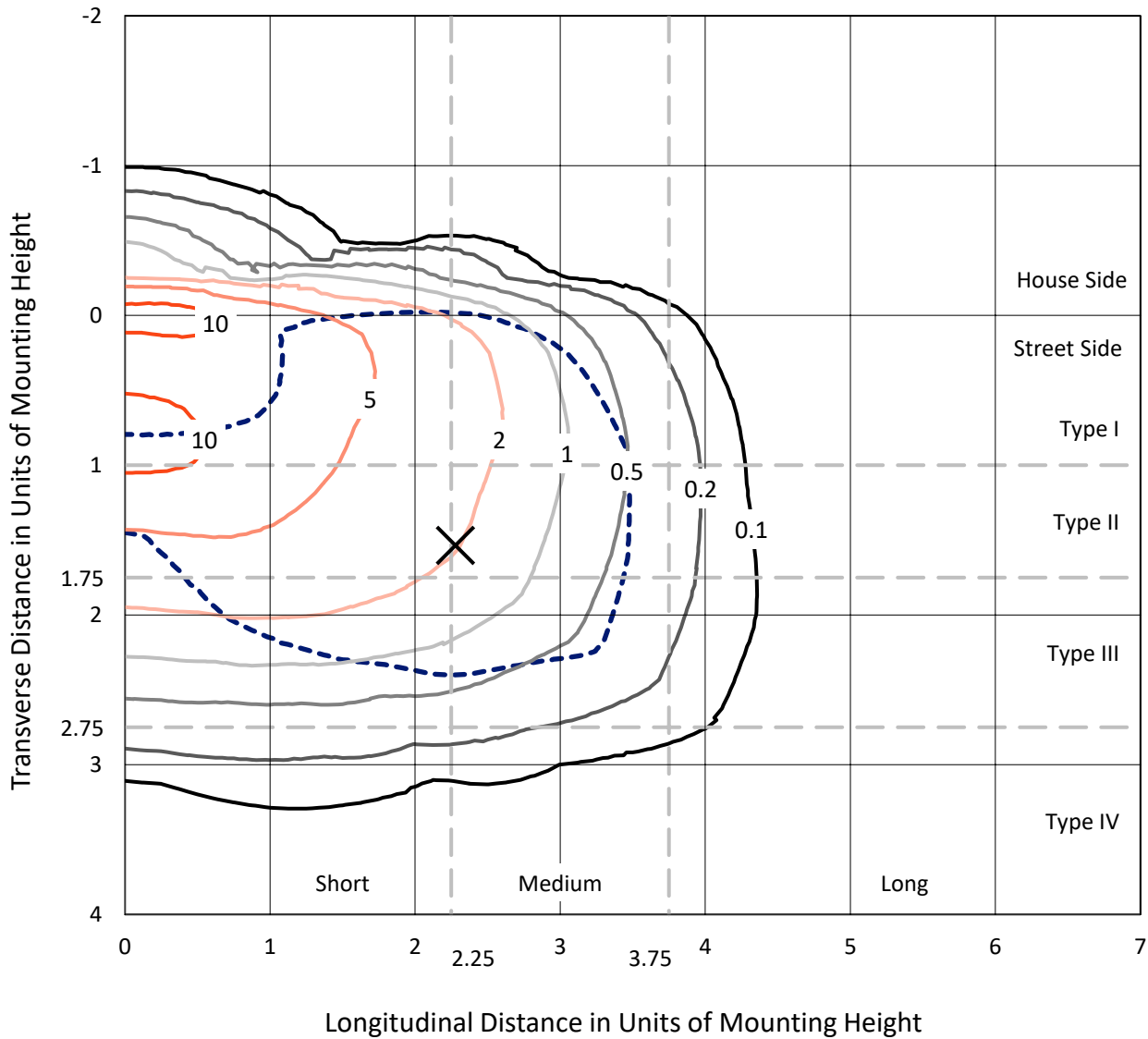
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

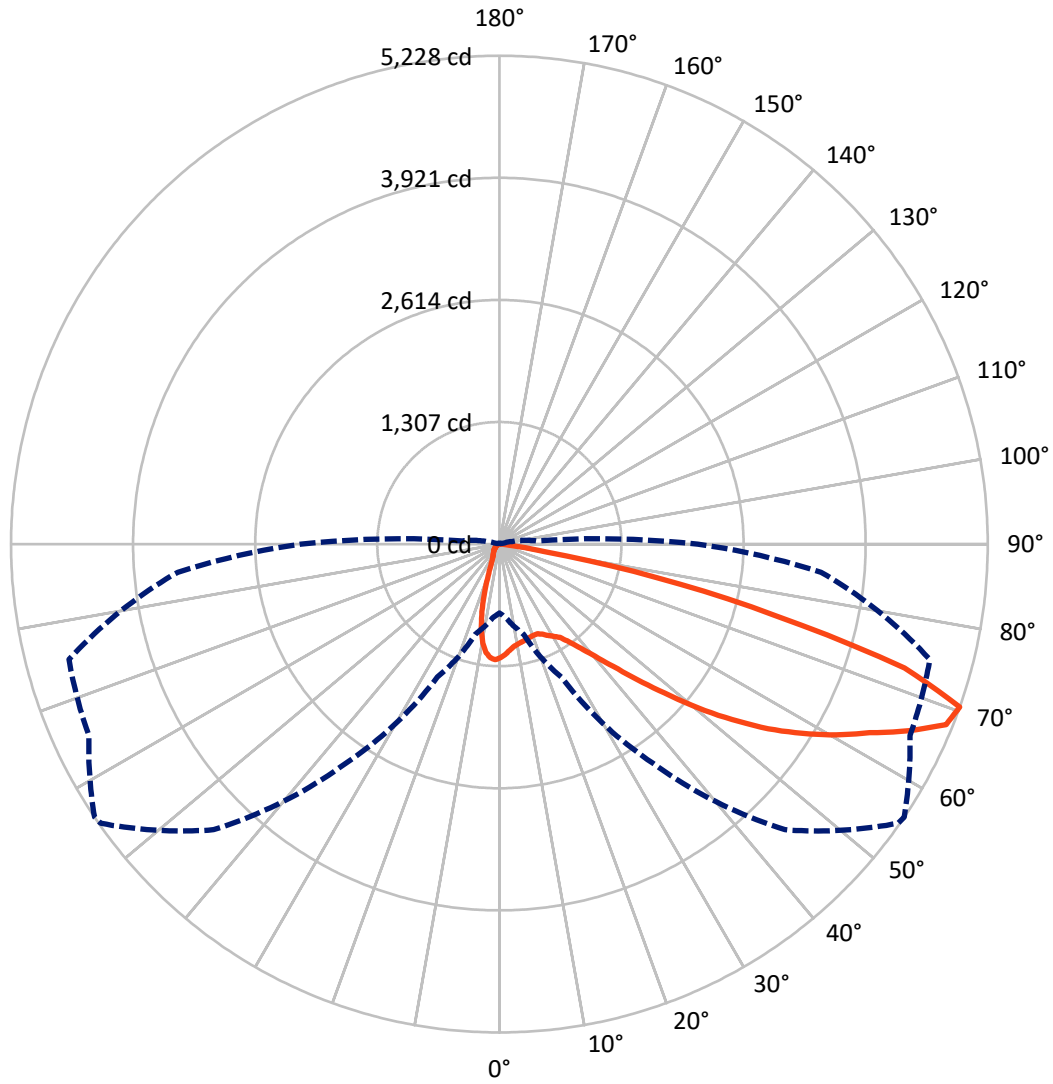
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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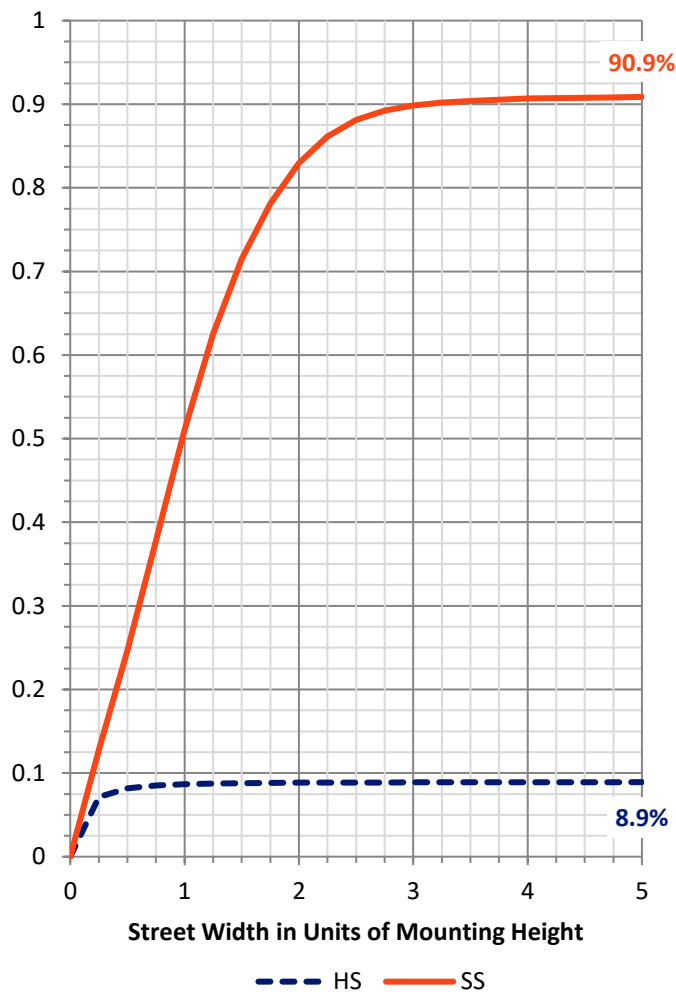
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	605.9	0.0	605.9
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	6140.4	0.0	6140.4
	% Fixture	91.0	0.0	91.0
Total	Lumens	6746.3	0.0	6746.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	1.5
10°-20°	234.9	3.5
20°-30°	372.1	5.5
30°-40°	641.7	9.5
40°-50°	1083.5	16.1
50°-60°	1592.1	23.6
60°-70°	1887.5	28.0
70°-80°	804.9	11.9
80°-90°	25.3	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°	6746.3	100.0
0°-180°	6746.3	100.0

Coefficient of Utilization



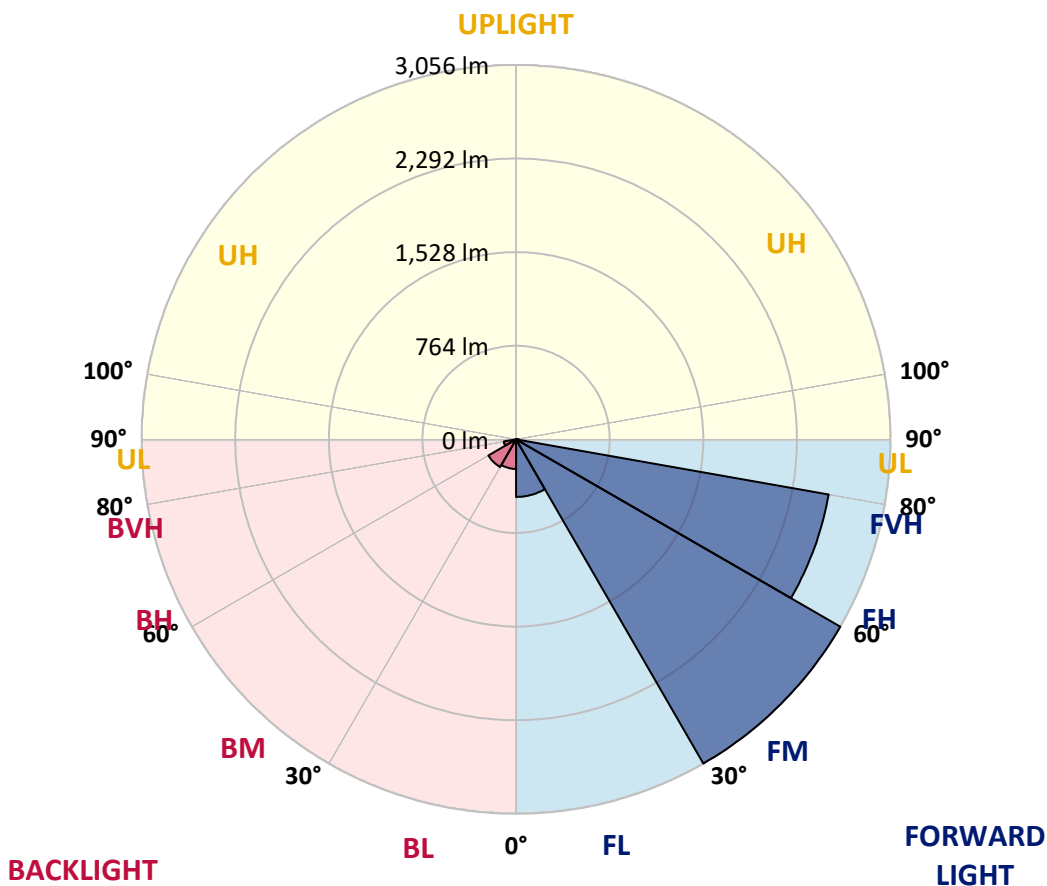
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	470.1	7.0			
FM (30°-60°)	3056.3	45.3			
FH (60°-80°)	2591.3	38.4			G2/5000
FVH (80°-90°)	22.7	0.3			G1/100
BL (0°-30°)	241.3	3.6	B1/500		
BM (30°-60°)	261.0	3.9	B1/1000		
BH (60°-80°)	101.1	1.5	B0/110		G0/110
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: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4
2.5°	1132.4	1130.6	1131.8	1141.1	1158.4	1166.4	1180.0	1182.4	1193.6	1207.8	1213.3
5°	1058.9	1052.7	1055.8	1068.8	1088.5	1110.8	1136.1	1142.9	1170.7	1202.2	1225.7
7.5°	991.6	984.8	992.2	1012.6	1040.4	1064.4	1102.1	1106.5	1150.9	1206.5	1249.2
10°	885.9	887.8	902.6	938.4	981.0	1031.1	1081.7	1087.9	1142.9	1220.8	1286.9
12.5°	805.0	800.7	816.7	857.5	917.4	990.3	1066.3	1074.3	1143.5	1242.4	1335.0
15°	767.3	766.1	772.9	802.5	860.6	946.5	1052.1	1062.6	1151.6	1262.1	1380.8
17.5°	768.5	766.7	766.1	783.4	826.6	913.7	1036.6	1050.2	1158.4	1283.8	1428.9
20°	822.3	813.6	798.2	790.2	816.1	892.7	1026.1	1041.6	1168.2	1306.6	1480.2
22.5°	934.7	937.8	896.4	853.2	840.8	895.2	1024.9	1042.8	1189.9	1342.5	1543.2
25°	1159.6	1154.6	1078.0	981.0	913.7	923.6	1046.5	1068.2	1232.5	1393.7	1602.5
27.5°	1441.3	1445.6	1340.6	1186.2	1045.3	982.3	1086.1	1107.7	1281.9	1425.9	1642.1
30°	1748.3	1744.0	1631.6	1460.5	1231.9	1079.9	1125.6	1144.8	1306.6	1443.2	1682.9
32.5°	2038.7	2028.8	1917.6	1738.5	1469.7	1233.7	1180.0	1191.1	1339.4	1480.8	1737.8
35°	2286.4	2285.8	2188.8	1997.9	1714.4	1426.5	1273.3	1282.5	1400.5	1540.8	1818.8
37.5°	2542.2	2533.6	2424.8	2250.6	1965.8	1637.8	1416.0	1412.3	1496.9	1629.1	1918.2
40°	2752.2	2746.7	2663.3	2495.9	2227.1	1871.3	1589.0	1577.8	1611.2	1751.4	2056.6
42.5°	2907.9	2908.5	2882.6	2780.7	2503.9	2141.3	1806.4	1789.1	1788.5	1936.1	2239.5
45°	3025.9	3034.0	3072.9	3057.4	2830.7	2455.7	2085.0	2067.1	2036.8	2175.9	2448.9
47.5°	3080.9	3091.4	3208.8	3270.6	3116.7	2767.7	2416.8	2379.1	2319.8	2494.6	2683.1
50°	3075.4	3093.9	3257.6	3445.4	3376.2	3084.0	2778.2	2760.3	2663.3	2831.9	2914.7
52.5°	2949.3	2988.9	3260.7	3551.7	3575.8	3375.6	3152.0	3118.6	3071.6	3184.1	3132.2
55°	2607.1	2655.3	3130.3	3585.6	3731.4	3630.1	3517.7	3490.5	3412.7	3516.5	3321.8
57.5°	2421.1	2462.5	2856.0	3569.0	3863.6	3865.5	3843.3	3821.0	3756.8	3845.1	3544.3
60°	2309.3	2350.7	2709.6	3507.8	3983.5	4113.9	4149.1	4146.6	4053.9	4218.9	3805.0
62.5°	2145.6	2202.4	2557.0	3349.0	4068.8	4358.5	4464.8	4448.1	4344.9	4608.1	4063.2
65°	1815.1	1864.5	2244.4	3087.1	4018.7	4561.1	4807.0	4815.7	4696.4	4974.4	4267.1
67.5°	1272.6	1309.1	1686.6	2537.3	3678.9	4627.9	5157.3	5156.7	4953.4	5162.2	4176.9
70°	737.6	787.7	996.5	1568.6	2862.2	4324.5	5209.8	5227.7	4849.0	4769.9	3456.5
72.5°	285.4	326.8	564.7	833.4	1492.6	3312.6	4481.4	4534.0	4058.3	3679.5	2405.7
75°	85.3	95.1	265.6	443.6	599.3	1600.1	3034.0	3048.8	2783.8	2295.1	1233.1
77.5°	63.6	70.4	116.1	224.3	210.0	485.0	1569.8	1714.4	1477.8	819.8	339.8
80°	43.2	51.3	82.8	109.3	77.8	129.1	441.1	484.3	451.0	184.1	85.3
82.5°	19.2	24.7	58.7	55.0	28.4	37.1	135.9	144.6	93.3	55.6	29.7
85°	1.9	2.5	22.2	24.1	10.5	8.6	28.4	28.4	20.4	19.2	12.4
87.5°	0.0	0.0	0.6	1.2	1.2	1.9	2.5	3.1	3.7	4.9	6.2
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°	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4
2.5°	1227.5	1220.1	1229.4	1236.8	1238.7	1225.1	1217.0	1205.3	1202.8	1203.5	1200.4
5°	1244.2	1240.5	1247.3	1239.3	1218.3	1178.7	1144.8	1107.1	1086.7	1075.0	1073.7
7.5°	1275.1	1273.3	1265.8	1229.4	1163.9	1076.2	991.6	908.8	857.5	839.0	835.9
10°	1320.8	1317.1	1286.9	1200.4	1060.7	892.1	750.0	631.4	559.1	538.1	512.1
12.5°	1373.3	1365.9	1299.8	1138.0	905.1	671.5	494.2	361.4	299.0	280.5	280.5
15°	1424.0	1407.9	1292.4	1034.8	713.5	436.8	276.2	208.8	189.7	184.7	184.7
17.5°	1475.9	1445.0	1263.4	893.9	493.0	258.2	184.1	171.1	168.7	169.3	169.9
20°	1524.7	1476.5	1212.1	724.7	314.5	180.4	164.9	161.9	160.6	161.9	161.2
22.5°	1577.8	1505.6	1134.3	539.9	204.5	162.5	156.9	154.4	153.2	155.1	155.1
25°	1630.3	1526.6	1031.1	363.3	162.5	151.4	148.3	145.8	144.6	145.2	145.2
27.5°	1657.5	1518.5	895.8	231.7	145.8	140.2	137.1	134.1	132.2	131.6	132.2
30°	1676.1	1493.8	730.2	164.9	132.2	125.4	122.3	119.9	114.9	111.8	113.1
32.5°	1705.1	1469.1	550.4	138.4	121.1	110.6	105.6	99.5	92.7	89.6	89.6
35°	1739.7	1435.1	386.1	124.8	109.3	98.2	89.0	78.5	70.4	68.0	68.0
37.5°	1785.4	1403.0	257.0	115.5	99.5	87.7	74.8	62.4	53.7	52.5	51.9
40°	1854.0	1375.8	181.0	108.7	90.8	76.6	61.2	48.2	42.0	40.2	40.2
42.5°	1942.9	1348.0	143.3	101.9	83.4	66.1	48.8	38.3	33.4	32.1	31.5
45°	2052.9	1315.3	124.8	95.8	76.0	55.0	38.9	32.1	28.4	27.2	27.2
47.5°	2172.1	1270.8	116.1	87.7	67.3	44.5	32.7	27.8	25.9	25.3	24.7
50°	2289.5	1210.9	108.7	80.3	57.5	36.4	28.4	25.3	24.1	23.5	23.5
52.5°	2392.1	1141.1	99.5	71.7	47.0	31.5	25.3	23.5	22.2	21.0	20.4
55°	2479.8	1065.1	87.7	61.8	38.3	27.8	23.5	21.6	20.4	19.2	18.5
57.5°	2592.9	1021.8	70.4	50.0	31.5	24.7	21.6	19.8	18.5	16.7	16.7
60°	2718.3	990.3	52.5	39.5	27.2	22.9	19.8	17.9	16.7	14.8	14.8
62.5°	2819.0	943.4	41.4	32.1	23.5	20.4	17.9	16.1	14.8	13.0	13.0
65°	2857.3	846.4	34.0	25.3	19.2	17.9	16.1	14.8	13.0	11.1	11.1
67.5°	2684.3	652.4	28.4	20.4	16.1	15.4	14.2	13.6	11.1	9.9	9.3
70°	2125.8	397.9	23.5	16.7	13.6	13.0	13.0	11.7	9.9	9.3	8.6
72.5°	1456.7	205.1	19.2	13.6	11.7	11.7	11.1	10.5	9.3	8.6	8.6
75°	756.8	68.6	14.8	10.5	9.3	9.9	9.9	9.3	8.6	8.6	8.0
77.5°	216.8	30.9	11.1	8.0	7.4	7.4	8.0	8.0	8.0	7.4	7.4
80°	56.2	17.9	8.0	6.2	6.2	6.2	6.2	6.8	7.4	6.8	6.8
82.5°	22.9	9.9	5.6	4.9	4.9	4.9	4.9	5.6	6.2	6.2	6.2
85°	14.2	4.9	4.3	4.3	4.3	3.7	3.7	4.3	4.3	4.9	4.9
87.5°	8.6	3.7	3.7	3.7	3.7	3.1	3.1	3.1	3.1	3.1	3.1
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)