

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: P631767

Luminaire Tested: GWS-SA2B-735-U-SL4-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631767  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2B-735-U-SL4-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

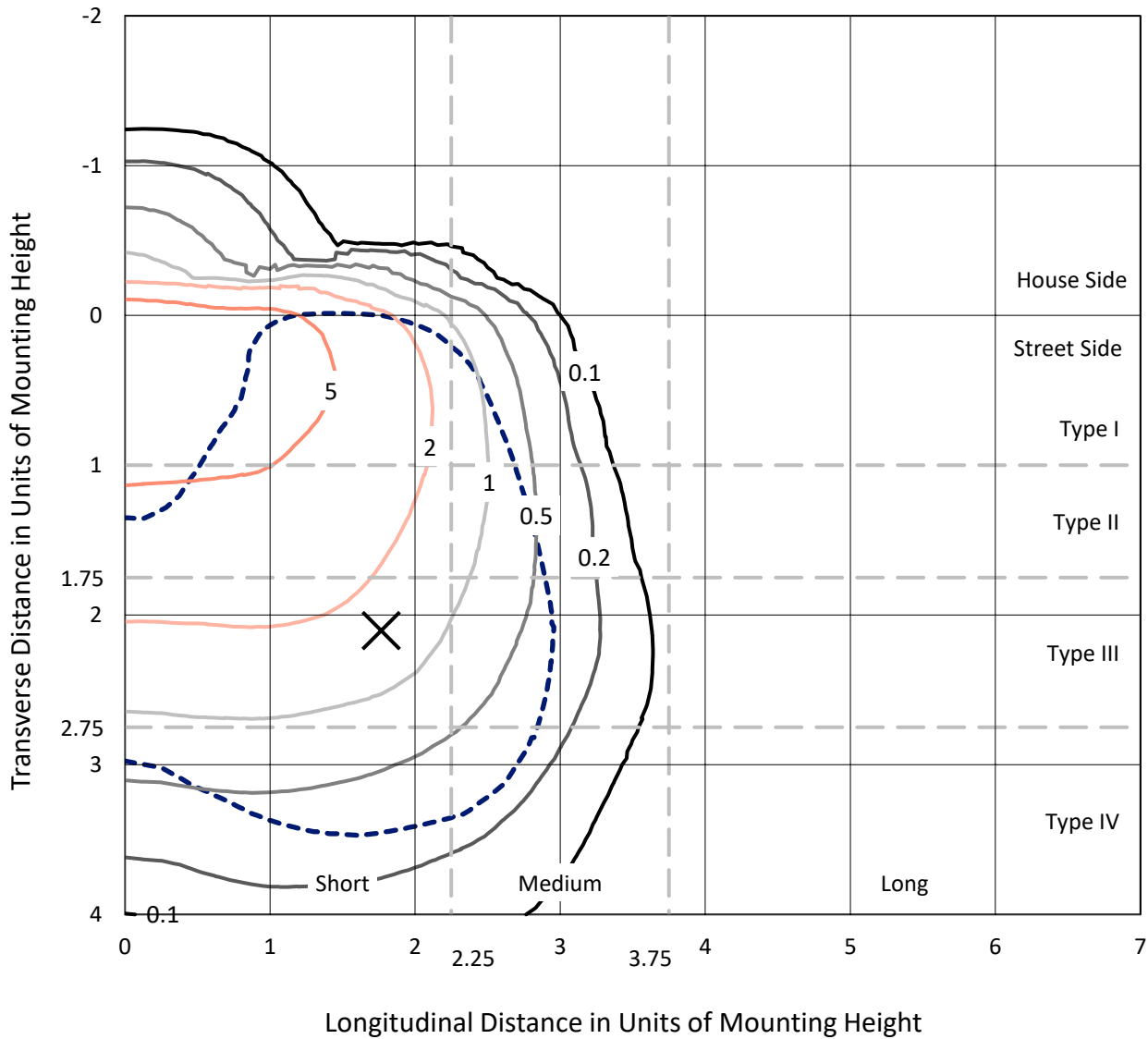
Lumens per Lamp: N/A  
Luminaire Lumens: 5363 lumens  
Efficiency: N/A  
Efficacy: 115.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

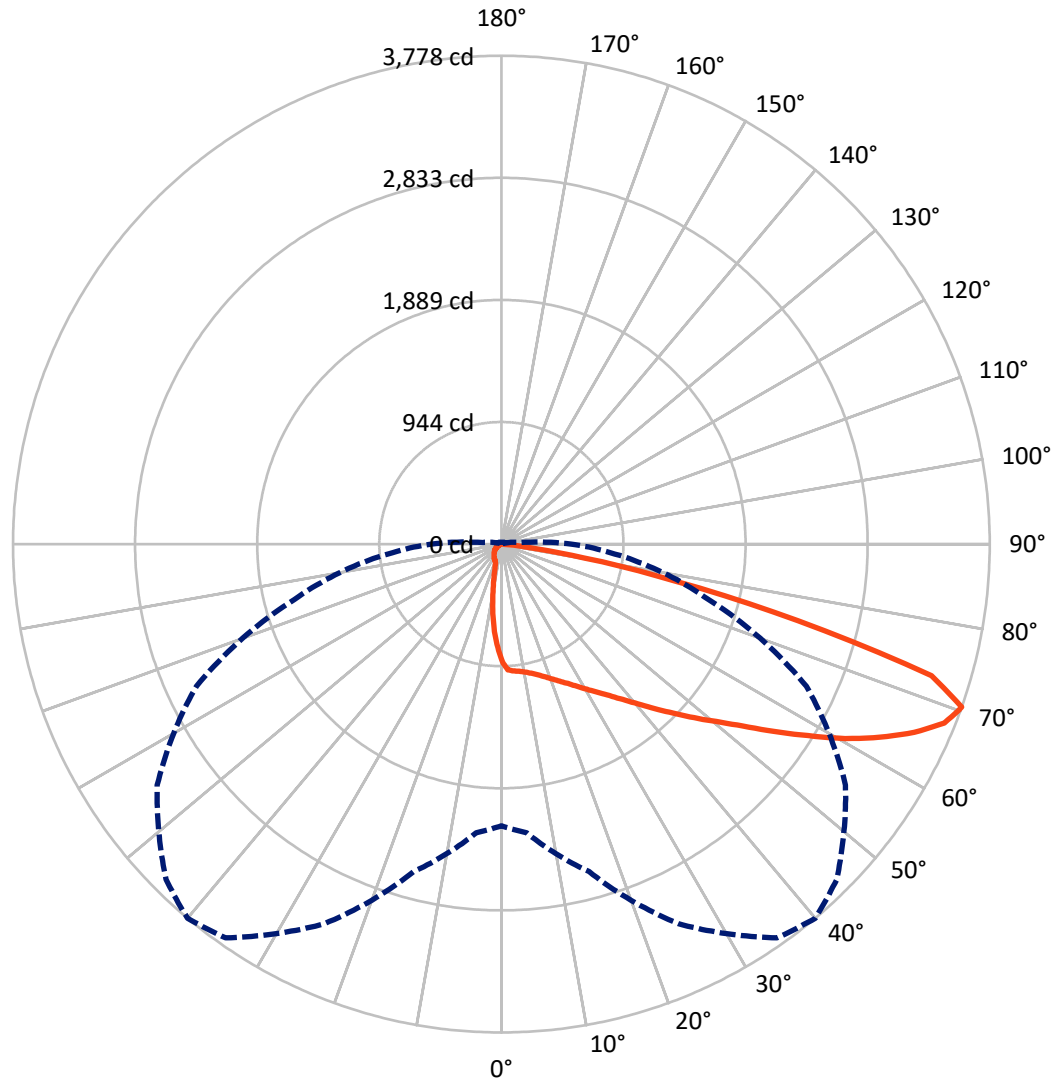
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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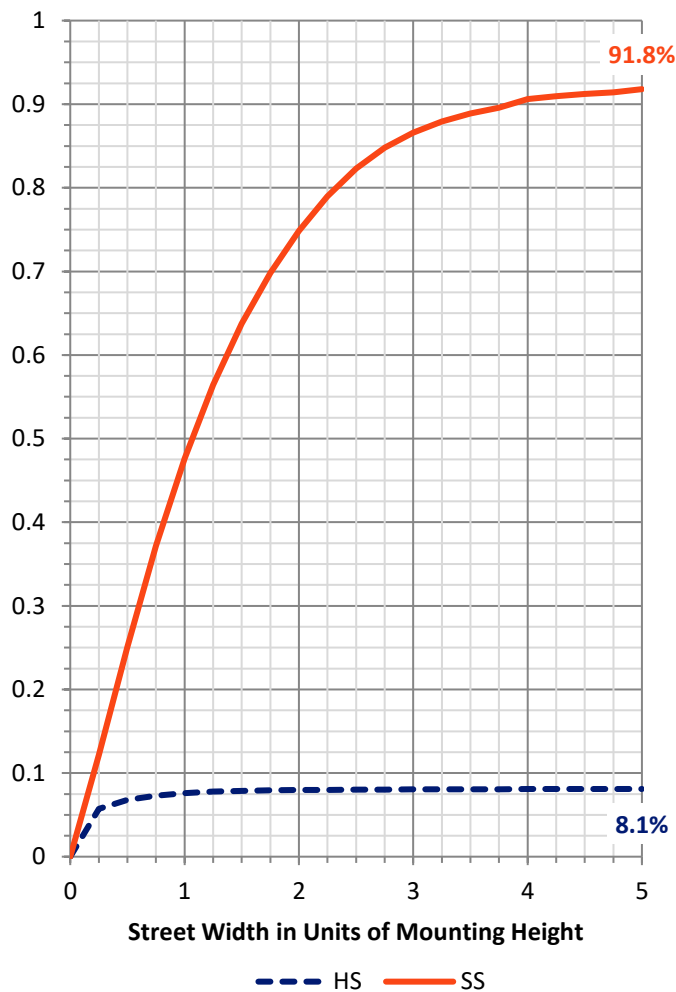
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	438.6	0.0	438.6
	% Fixture	8.2	0.0	8.2
<b>Street Side</b>	Lumens	4924.5	0.0	4924.5
	% Fixture	91.8	0.0	91.8
<b>Total</b>	Lumens	5363.0	0.0	5363.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.9	1.4
10°-20°	195.1	3.6
20°-30°	326.5	6.1
30°-40°	512.8	9.6
40°-50°	811.1	15.1
50°-60°	1183.2	22.1
60°-70°	1466.8	27.4
70°-80°	742.1	13.8
80°-90°	48.4	0.9
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°	5363.0	100.0
0°-180°	5363.0	100.0

**Coefficient of Utilization**



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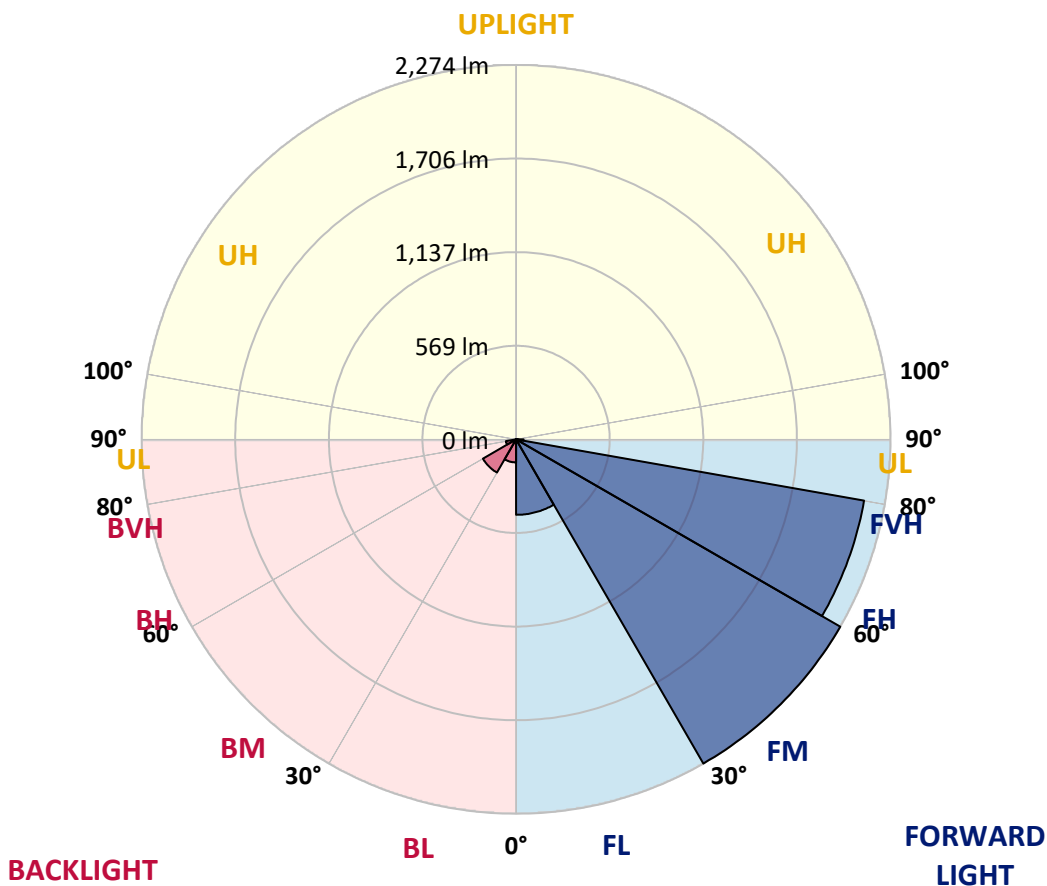
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	458.4	8.5			
FM (30°-60°)	2274.4	42.4			
FH (60°-80°)	2146.4	40.0			G2/5000
FVH (80°-90°)	45.3	0.8			G1/100
BL (0°-30°)	140.1	2.6	B1/500		
BM (30°-60°)	232.8	4.3	B1/1000		
BH (60°-80°)	62.5	1.2	B0/110		G0/110
BVH (80°-90°)	3.2	0.1			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	910.0	910.0	910.0	910.0	910.0	910.0	910.0	910.0	910.0	910.0	910.0
2.5°	978.4	981.8	981.3	982.7	979.3	974.0	973.0	965.7	952.5	935.9	917.4
5°	998.4	1002.3	999.3	997.9	991.5	985.7	984.2	976.4	961.3	938.8	906.6
7.5°	1015.4	1016.4	1014.5	1011.0	1001.8	994.0	988.6	977.9	959.8	937.4	900.3
10°	1018.4	1017.9	1018.9	1019.3	1013.5	1006.7	1002.3	987.6	964.7	940.8	900.8
12.5°	1014.9	1014.9	1021.3	1028.6	1028.6	1025.2	1020.8	1007.6	980.8	952.5	910.5
15°	1019.3	1020.8	1033.0	1046.7	1051.1	1047.6	1045.7	1032.0	1004.2	973.0	928.1
17.5°	1035.0	1036.4	1055.9	1076.4	1081.8	1077.9	1074.0	1060.3	1030.6	996.4	948.1
20°	1057.9	1061.8	1086.7	1113.0	1117.9	1113.0	1105.2	1086.2	1056.4	1021.8	967.1
22.5°	1099.9	1102.3	1129.1	1156.9	1159.4	1151.6	1139.9	1113.5	1082.3	1048.6	988.6
25°	1155.5	1158.9	1185.7	1212.6	1206.2	1194.5	1178.4	1148.6	1113.0	1080.3	1015.9
27.5°	1221.8	1225.7	1252.1	1275.5	1258.9	1245.3	1227.2	1190.1	1154.0	1124.2	1051.1
30°	1293.6	1297.0	1320.4	1341.4	1319.4	1303.3	1281.9	1243.8	1207.2	1184.8	1100.8
32.5°	1362.9	1362.4	1384.8	1401.9	1379.4	1366.8	1347.2	1308.7	1279.4	1269.7	1175.0
35°	1427.3	1427.3	1445.8	1462.9	1446.8	1440.0	1421.9	1391.2	1374.6	1386.3	1274.1
37.5°	1492.2	1488.8	1506.3	1525.3	1523.9	1524.4	1514.1	1499.5	1500.5	1541.9	1410.2
40°	1545.8	1544.4	1564.9	1589.8	1609.3	1624.9	1618.5	1623.9	1654.7	1732.2	1584.4
42.5°	1588.8	1592.2	1618.5	1658.1	1707.4	1739.1	1743.5	1765.4	1844.5	1964.5	1781.0
45°	1638.1	1638.6	1675.2	1735.7	1814.2	1864.5	1882.0	1938.6	2050.9	2205.6	1996.7
47.5°	1698.6	1692.7	1733.7	1818.6	1932.3	2006.5	2037.7	2108.5	2282.2	2440.8	2172.4
50°	1765.4	1754.7	1801.0	1916.7	2064.5	2157.3	2220.7	2324.1	2511.5	2634.0	2303.1
52.5°	1843.0	1832.8	1885.5	2029.4	2223.1	2335.8	2417.3	2521.8	2708.2	2781.3	2381.2
55°	1941.6	1931.3	1987.0	2164.6	2410.5	2556.9	2642.3	2730.1	2891.1	2890.2	2437.8
57.5°	2050.9	2036.7	2113.8	2335.4	2644.2	2796.5	2883.3	2926.3	3030.2	2974.6	2475.9
60°	2176.3	2163.6	2270.5	2538.8	2914.1	3055.1	3109.7	3092.2	3144.4	3024.3	2462.7
62.5°	2289.5	2283.6	2416.4	2754.5	3171.2	3290.3	3305.4	3228.8	3228.3	3025.3	2373.9
65°	2407.1	2418.3	2615.4	3002.9	3429.8	3509.9	3484.0	3364.5	3262.0	2905.8	2111.4
67.5°	2451.0	2483.7	2746.7	3227.3	3633.8	3696.3	3650.9	3432.3	3121.9	2503.7	1607.8
70°	2179.7	2241.2	2622.8	3240.0	3718.2	3777.8	3668.9	3249.8	2602.8	1658.6	880.8
72.5°	1657.6	1729.3	2185.6	2653.0	3344.0	3479.6	3293.7	2647.6	1677.6	726.6	295.7
75°	927.6	1005.2	1627.8	1997.7	2245.1	2369.0	2300.7	1698.6	743.2	189.8	88.3
77.5°	313.8	339.6	757.3	1236.0	1481.9	1370.7	1160.4	843.7	273.3	72.2	46.8
80°	185.9	195.7	282.0	615.3	779.8	646.5	510.4	311.8	139.1	38.5	32.7
82.5°	55.6	65.9	155.7	228.4	305.5	190.3	161.0	178.1	72.2	21.0	27.3
85°	0.0	0.0	33.2	70.8	80.0	31.2	31.2	101.0	13.2	8.8	20.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.4	1.5	2.0	4.4
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°	910.0	910.0	910.0	910.0	910.0	910.0	910.0	910.0	910.0	910.0	910.0
2.5°	904.2	887.1	867.1	848.1	830.0	806.6	795.4	781.7	770.0	763.7	767.1
5°	886.1	859.3	818.3	776.8	734.9	695.3	659.7	635.8	614.3	603.1	605.6
7.5°	870.5	834.4	770.5	702.7	635.3	567.5	512.4	469.4	436.2	422.6	420.1
10°	863.7	818.3	728.0	630.4	527.0	435.7	357.7	310.3	276.7	260.1	263.0
12.5°	867.1	810.0	691.9	559.7	425.5	319.1	244.5	200.1	176.2	166.4	164.0
15°	876.9	808.1	659.7	487.5	328.4	223.0	168.8	150.8	145.9	144.9	144.9
17.5°	888.1	808.5	626.5	414.3	249.3	165.4	144.4	141.0	139.6	138.6	139.1
20°	899.3	808.5	588.5	340.1	187.4	143.0	137.6	135.2	133.7	133.2	133.2
22.5°	913.0	808.5	546.0	271.3	150.3	135.7	131.3	129.8	128.3	127.8	127.4
25°	929.6	809.0	499.2	212.3	136.6	129.3	125.9	124.4	123.0	122.0	122.0
27.5°	953.5	812.9	447.5	165.4	128.8	123.5	120.5	119.1	117.6	116.1	116.1
30°	988.1	822.7	389.4	136.6	121.5	117.1	114.2	113.2	111.7	110.3	109.8
32.5°	1039.8	839.8	329.4	122.5	114.7	110.3	106.9	105.9	104.4	103.0	102.5
35°	1112.1	871.0	270.8	113.7	105.9	101.5	99.5	99.1	97.1	95.6	95.6
37.5°	1217.9	921.7	214.7	104.9	98.6	95.2	92.7	91.7	89.8	88.3	87.8
40°	1347.2	987.6	166.9	98.1	91.7	88.3	85.9	84.4	82.0	80.0	79.0
42.5°	1512.2	1068.1	131.7	90.8	85.4	82.0	80.0	77.1	73.7	70.8	70.3
45°	1683.9	1151.1	108.8	83.9	79.5	76.6	74.2	70.3	65.4	62.0	61.0
47.5°	1815.7	1202.8	95.2	76.6	73.2	70.8	67.8	62.9	57.1	53.2	52.2
50°	1909.9	1210.6	84.9	69.8	67.8	65.4	61.0	55.1	48.8	44.9	43.9
52.5°	1956.2	1175.5	76.6	63.4	62.0	59.5	54.2	47.8	41.0	37.1	36.1
55°	1977.2	1109.1	68.8	58.1	56.1	53.2	47.3	40.5	33.7	30.3	29.3
57.5°	1968.9	1011.0	62.0	52.7	50.3	46.8	40.5	33.2	27.8	24.4	23.9
60°	1907.4	873.4	55.1	47.3	44.4	40.5	34.2	27.3	22.4	20.0	19.5
62.5°	1774.7	702.7	48.3	41.0	39.0	35.1	29.3	22.4	18.5	17.1	16.6
65°	1502.9	496.7	41.5	34.6	33.7	29.8	24.4	18.5	16.1	15.1	14.6
67.5°	1080.3	302.0	35.1	29.8	28.8	25.4	20.5	16.1	14.6	14.2	14.2
70°	543.1	143.0	27.8	24.4	24.4	21.0	17.6	14.6	14.2	13.7	13.7
72.5°	184.4	61.0	21.0	19.0	20.0	18.1	15.1	13.7	13.7	13.7	13.7
75°	62.9	32.2	14.6	13.7	14.6	14.6	13.2	13.2	13.7	13.7	13.7
77.5°	41.0	21.5	10.2	9.3	11.2	11.2	11.2	12.2	13.2	13.2	13.2
80°	33.7	11.7	6.8	6.3	8.3	8.3	9.3	11.2	12.2	12.2	12.2
82.5°	28.8	7.3	3.9	4.4	5.9	6.3	7.8	9.3	10.7	11.2	11.2
85°	19.5	3.9	2.9	3.4	3.9	4.9	6.3	7.8	8.8	9.8	9.8
87.5°	5.4	1.5	2.0	2.4	2.4	3.4	4.9	5.9	6.8	7.3	7.3
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)