

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P939381

Luminaire Tested: **GALN-SB1D-950-U-SL4-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939381
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-950-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4943 lumens
Efficiency: N/A
Efficacy: 62.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

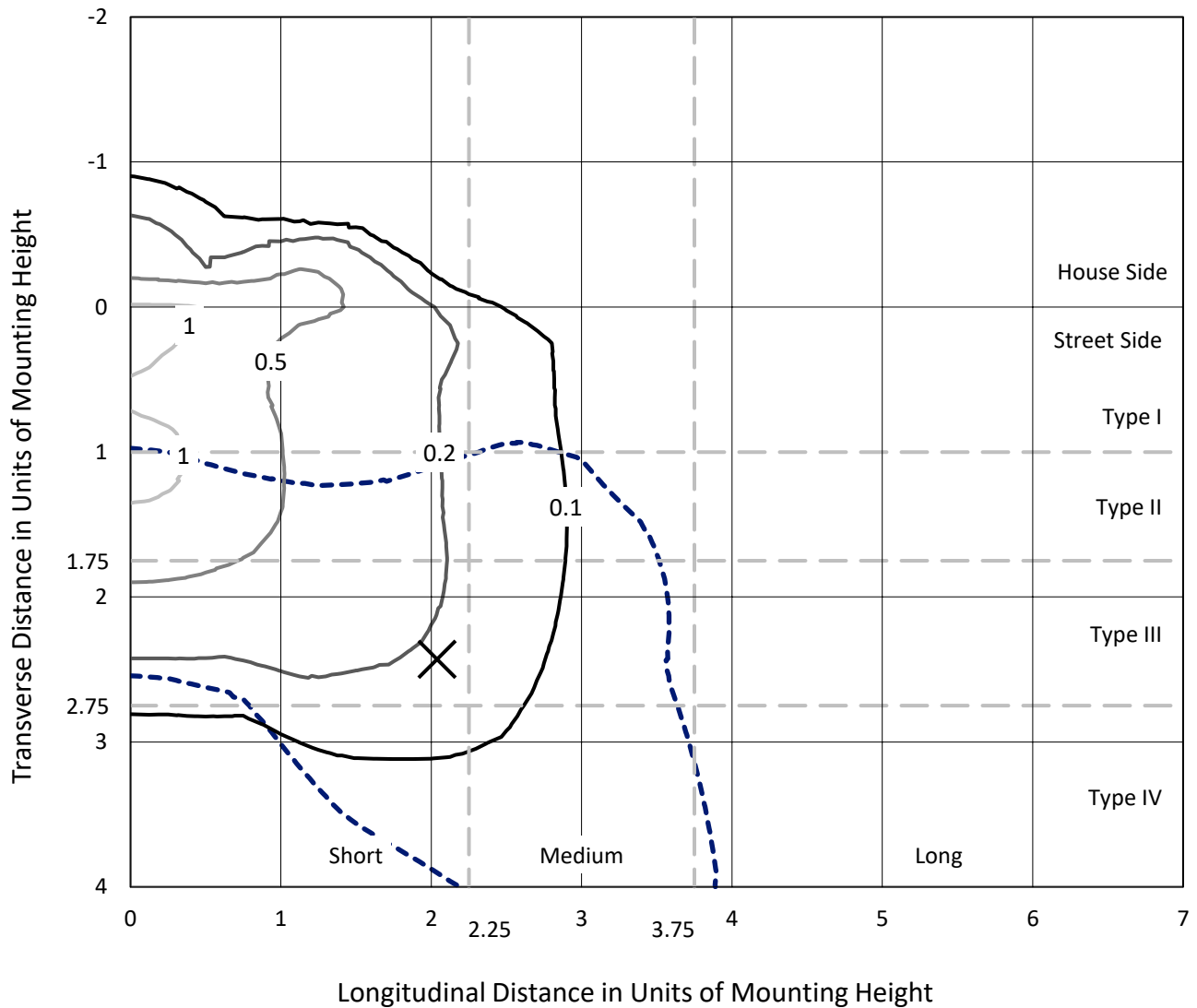
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

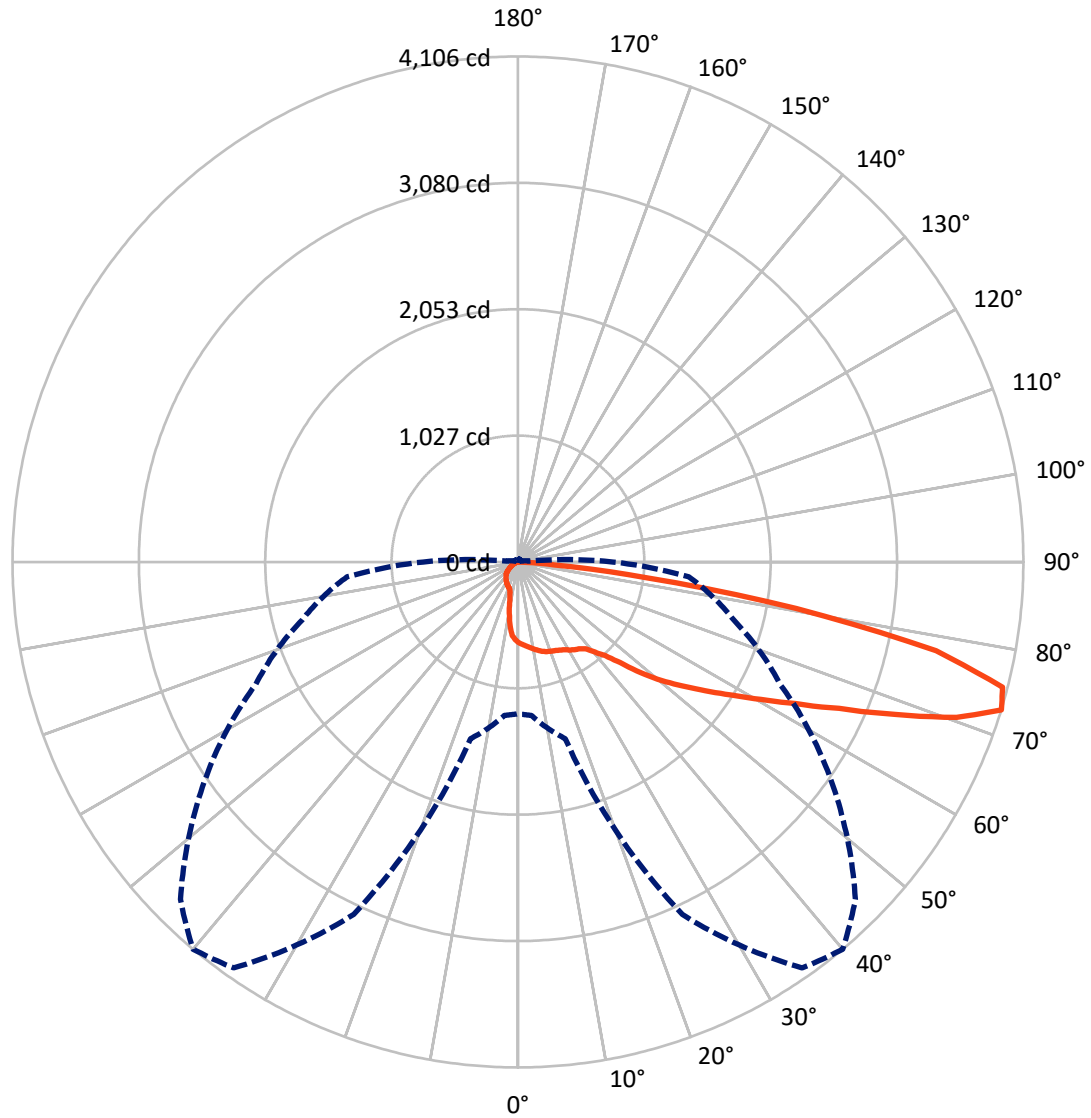
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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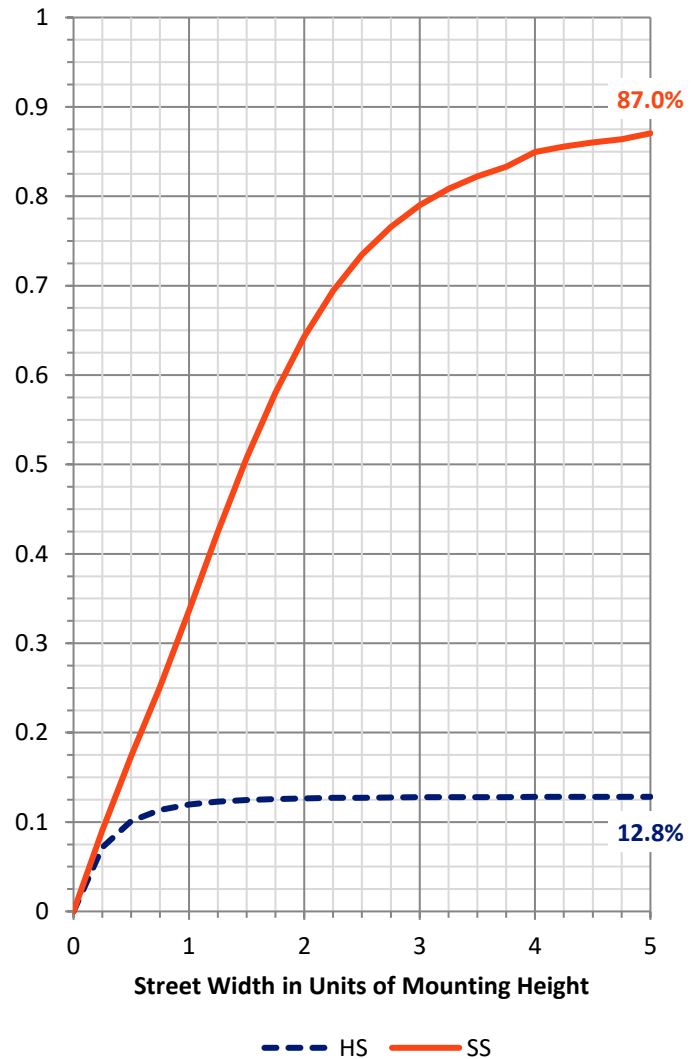
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	638.3	0.0	638.3
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	4304.7	0.0	4304.7
	% Fixture	87.1	0.0	87.1
Total	Lumens	4943.0	0.0	4943.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.8	1.2
10°-20°	162.3	3.3
20°-30°	262.7	5.3
30°-40°	387.8	7.8
40°-50°	652.6	13.2
50°-60°	1013.3	20.5
60°-70°	1268.0	25.7
70°-80°	1038.1	21.0
80°-90°	98.4	2.0
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°	4943.0	100.0
0°-180°	4943.0	100.0

Coefficient of Utilization



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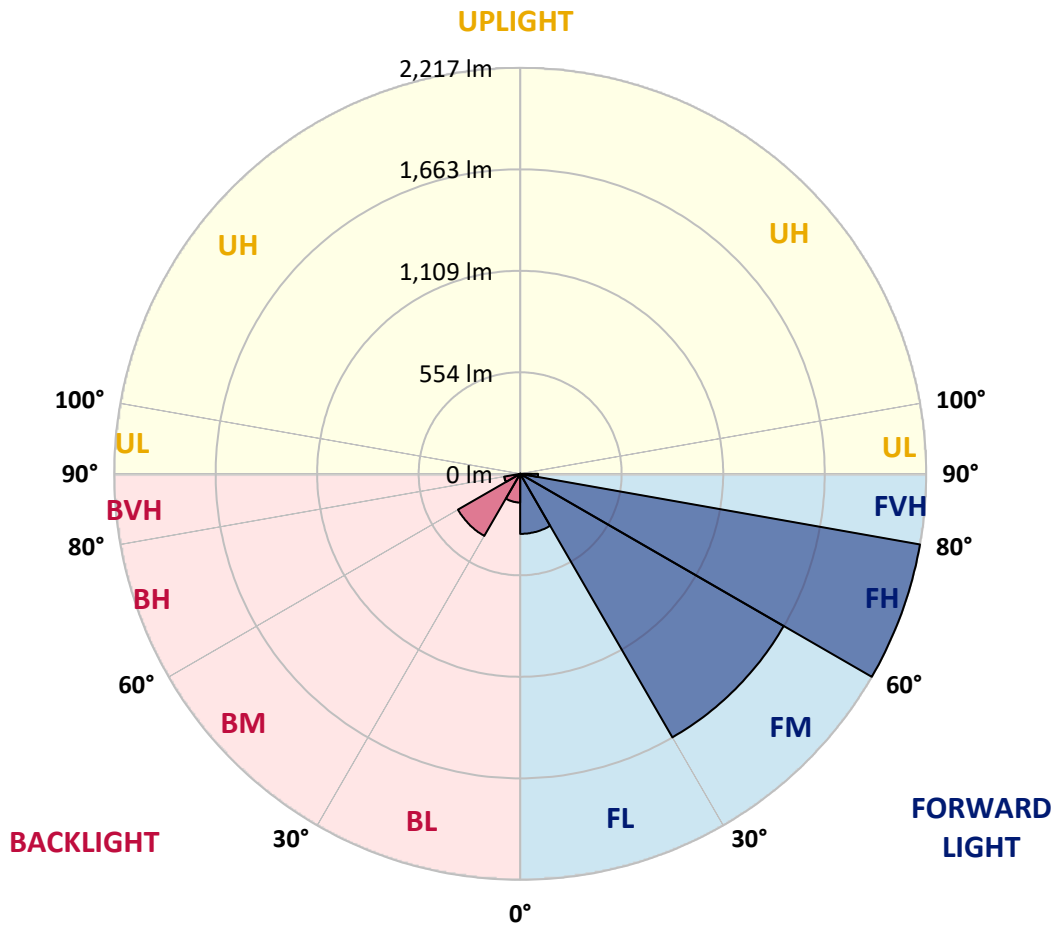
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	328.1	6.6			
FM (30°-60°)	1661.8	33.6			
FH (60°-80°)	2217.2	44.9			G2/5000
FVH (80°-90°)	97.7	2.0			G1/100
BL (0°-30°)	156.7	3.2	B1/500		
BM (30°-60°)	392.0	7.9	B1/1000		
BH (60°-80°)	88.9	1.8	B0/110		G0/110
BVH (80°-90°)	0.8	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	654.5	654.5	654.5	654.5	654.5	654.5	654.5	654.5	654.5	654.5
2.5°	674.2	676.8	675.3	672.4	671.6	670.1	668.3	667.5	664.9	662.7
5°	693.2	695.8	694.0	689.9	688.0	686.1	683.5	681.3	676.1	671.2
7.5°	714.1	716.3	714.1	708.1	705.1	702.9	699.2	695.8	689.9	682.8
10°	737.1	739.0	735.7	727.8	723.0	719.6	716.3	712.6	707.0	699.2
12.5°	758.7	761.0	755.8	746.4	740.9	737.5	733.8	730.8	725.2	717.8
15°	778.5	781.8	772.9	762.8	756.5	753.9	750.2	748.3	744.6	739.4
17.5°	793.4	795.6	786.3	774.4	767.3	765.4	762.8	763.9	763.2	760.6
20°	806.0	807.5	795.2	780.7	772.9	773.3	772.5	776.2	777.7	777.7
22.5°	821.7	822.0	806.4	788.1	778.8	781.4	782.6	786.7	789.6	792.6
25°	842.1	841.4	822.8	797.8	789.6	793.4	796.0	797.5	800.8	805.6
27.5°	872.7	870.4	846.6	813.5	803.8	807.1	812.0	811.2	809.7	813.5
30°	911.4	908.4	876.8	835.4	826.5	829.5	831.0	824.3	813.5	816.8
32.5°	972.8	967.6	923.7	860.0	846.2	849.6	847.7	833.9	817.9	821.3
35°	1079.7	1067.0	1004.8	911.4	868.6	864.8	860.4	847.0	827.2	823.9
37.5°	1306.8	1284.4	1178.3	1011.5	919.2	895.0	881.2	867.8	837.3	823.9
40°	1562.9	1540.2	1417.7	1179.1	1003.3	962.4	929.6	892.4	847.7	828.7
42.5°	1830.2	1805.3	1679.4	1386.8	1123.6	1039.4	978.4	912.1	864.8	843.6
45°	2128.8	2097.5	1933.0	1603.5	1298.2	1167.5	1056.9	952.7	894.6	870.1
47.5°	2443.7	2403.2	2185.7	1813.8	1486.2	1344.7	1200.6	1025.3	938.6	909.5
50°	2723.0	2682.8	2446.7	2033.8	1661.9	1513.4	1364.5	1125.8	1004.4	965.4
52.5°	2923.6	2893.1	2684.2	2260.9	1844.7	1671.6	1513.0	1242.7	1087.8	1036.8
55°	3058.0	3030.1	2852.5	2476.1	2057.3	1845.8	1659.3	1369.7	1188.4	1122.5
57.5°	3139.6	3123.5	2974.3	2668.2	2268.0	2036.4	1826.8	1509.3	1306.8	1223.4
60°	3168.6	3155.6	3049.8	2851.4	2522.7	2265.4	2023.8	1666.8	1450.5	1338.0
62.5°	3091.2	3093.8	3104.2	3068.4	2791.1	2533.5	2259.8	1855.9	1609.8	1468.0
65°	2726.7	2748.3	2946.3	3309.0	3146.6	2869.3	2560.3	2086.7	1792.2	1615.8
67.5°	2257.6	2288.9	2535.3	3449.7	3525.6	3305.2	2978.7	2380.8	2009.6	1766.2
70°	1728.2	1761.7	2060.3	3420.3	3880.4	3781.8	3496.2	2755.0	2234.9	1870.4
72.5°	1233.4	1250.5	1485.8	3158.5	4026.0	4106.4	3877.4	3109.4	2349.9	1812.7
75°	866.7	863.7	1019.7	2543.5	3799.3	4066.9	3743.8	2917.7	2126.5	1440.0
77.5°	377.5	378.3	509.3	1544.6	3032.3	3473.5	3112.0	1827.6	1482.5	763.2
80°	97.9	100.9	186.9	615.0	1825.7	2292.6	1898.0	803.4	685.0	186.1
82.5°	34.6	36.9	86.0	193.2	673.5	1051.4	845.1	256.9	178.7	53.2
85°	10.1	11.9	46.2	59.2	139.2	297.1	205.1	49.9	43.9	27.5
87.5°	0.0	1.5	9.3	8.2	8.2	5.6	10.4	5.6	7.1	3.4
90°	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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
654.5	0°	654.5	654.5	654.5	654.5	654.5	654.5	654.5	654.5	654.5	654.5
660.1	2.5°	657.8	655.2	649.7	643.7	638.1	632.9	631.4	625.8	623.2	623.6
665.3	5°	661.2	656.4	645.6	632.5	619.1	603.9	591.2	573.3	558.1	556.2
675.3	7.5°	670.1	662.3	644.8	619.5	586.0	543.9	504.8	466.1	444.1	432.2
690.2	10°	683.9	673.5	646.7	598.3	527.2	452.0	392.8	344.0	319.1	307.5
708.5	12.5°	700.3	688.7	649.7	562.2	451.2	352.6	288.5	258.7	253.5	252.8
730.8	15°	723.4	710.7	653.0	513.4	368.9	268.4	239.0	239.4	243.5	245.7
755.0	17.5°	749.1	736.4	648.2	453.8	287.8	229.3	228.6	231.9	237.9	240.1
777.4	20°	775.1	763.2	631.0	383.8	232.7	218.5	221.5	225.2	231.2	234.2
799.3	22.5°	801.9	791.5	603.9	309.4	210.0	210.7	214.4	218.2	224.9	228.2
820.9	25°	830.6	821.7	567.7	247.9	200.3	202.5	207.4	211.8	218.9	223.0
839.2	27.5°	859.6	852.9	526.8	207.0	191.4	194.0	199.5	205.5	212.6	217.4
855.2	30°	891.3	887.5	494.0	191.7	182.8	185.0	191.4	198.1	205.9	211.8
871.2	32.5°	923.7	922.9	478.0	202.9	175.0	176.5	182.1	188.8	198.4	205.9
884.6	35°	955.7	957.2	468.7	234.5	172.4	168.3	172.0	178.0	189.5	198.8
899.8	37.5°	996.6	1000.4	468.3	268.8	178.7	160.1	162.7	166.8	176.8	187.6
923.7	40°	1057.7	1077.4	492.2	298.2	189.9	152.6	153.4	154.1	159.3	168.3
955.3	42.5°	1138.8	1196.6	578.2	318.3	194.3	145.9	143.3	139.2	138.5	143.3
998.5	45°	1239.7	1340.6	729.3	329.5	189.9	138.5	131.4	120.6	116.5	119.9
1056.9	47.5°	1358.5	1498.5	908.4	332.1	182.4	129.2	116.5	102.4	99.0	100.1
1135.5	50°	1474.3	1616.9	1065.9	310.5	170.1	117.3	100.1	88.2	86.0	86.4
1228.2	52.5°	1576.7	1657.5	1110.6	259.5	153.8	102.8	86.0	77.8	76.3	76.3
1330.6	55°	1644.4	1613.5	990.3	198.4	133.3	87.9	73.7	69.6	68.9	68.5
1444.9	57.5°	1658.6	1470.6	747.9	143.3	104.2	74.1	65.5	63.3	61.8	60.3
1562.1	60°	1607.9	1232.3	476.2	100.1	78.2	63.3	58.1	56.6	53.6	50.6
1672.3	62.5°	1498.5	930.7	263.6	69.6	62.9	54.0	51.4	49.5	43.9	39.1
1759.8	65°	1351.4	618.8	116.5	54.4	51.4	45.4	43.9	41.3	34.6	29.0
1793.0	67.5°	1203.6	356.3	52.5	43.6	41.3	37.2	36.1	34.3	29.4	24.2
1708.5	70°	1035.0	180.6	36.1	34.6	32.0	28.3	29.4	29.0	24.2	19.7
1393.5	72.5°	770.6	89.7	27.2	26.1	23.1	20.1	24.2	23.8	19.0	14.9
859.3	75°	436.3	44.3	19.7	18.2	13.8	14.9	19.4	18.2	13.0	9.7
362.6	77.5°	173.1	22.7	13.0	11.2	8.2	10.1	14.1	12.3	6.7	4.1
69.2	80°	39.8	11.2	6.7	4.8	3.7	6.0	7.4	4.5	1.9	0.4
18.6	82.5°	11.2	4.8	2.2	1.9	1.9	2.2	1.9	0.7	0.0	0.0
4.8	85°	3.7	2.2	0.7	0.4	0.4	0.4	0.4	0.0	0.0	0.0
1.5	87.5°	1.5	0.7	0.0	0.0	0.0	0.0	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

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<u>180°</u>
654.5
623.2
555.1
431.5
305.3
252.4
245.3
239.8
234.2
228.2
223.0
217.8
212.6
206.6
200.3
189.5
171.3
145.9
119.9
99.8
86.4
75.9
67.8
59.6
49.5
37.6
27.9
23.5
19.0
<i>14.1</i>
8.9
3.7
0.0
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