

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: P945878

Luminaire Tested: **GALN-SB1C-940-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-940-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4182 lumens
Efficiency: N/A
Efficacy: 76.9 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

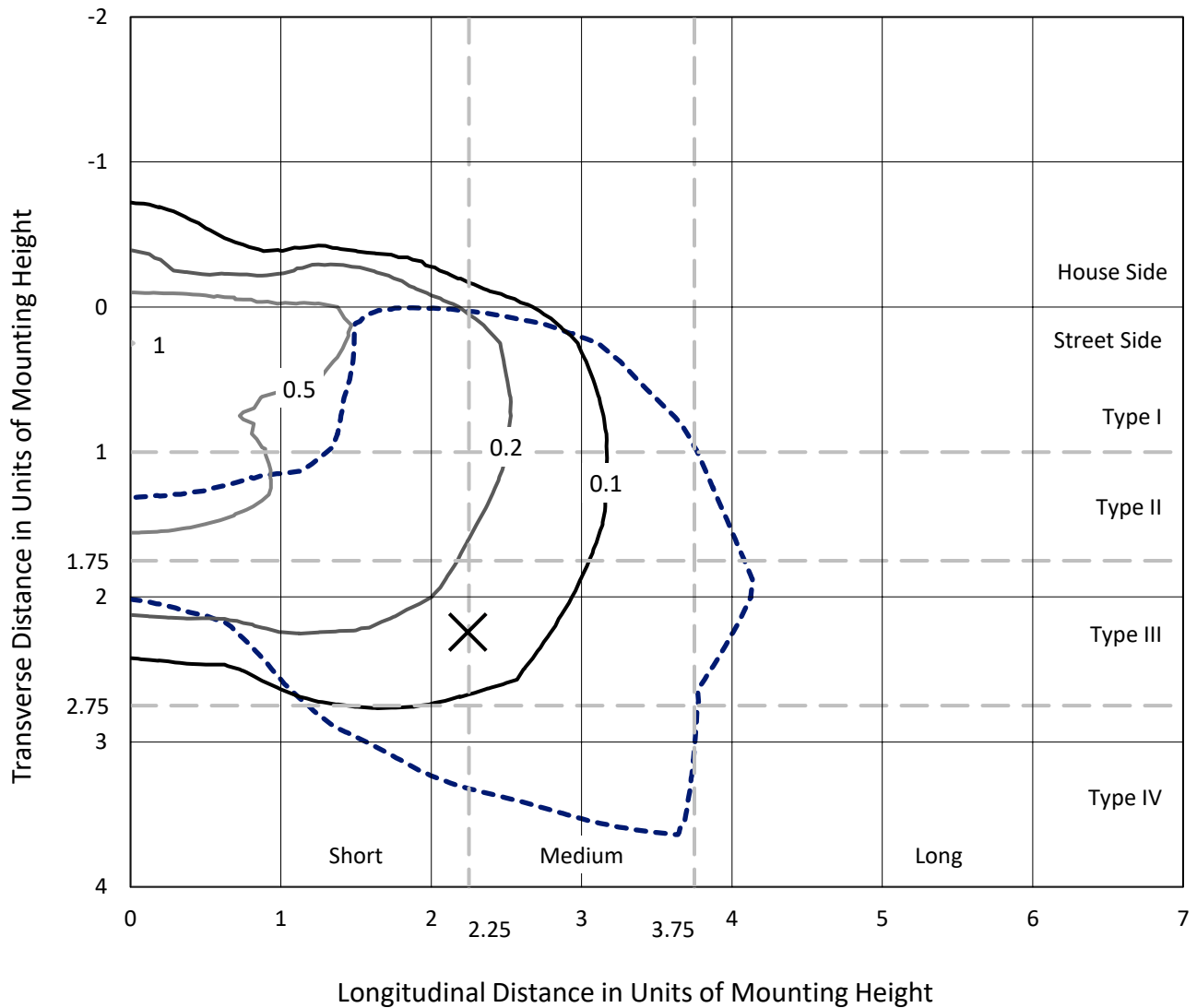
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

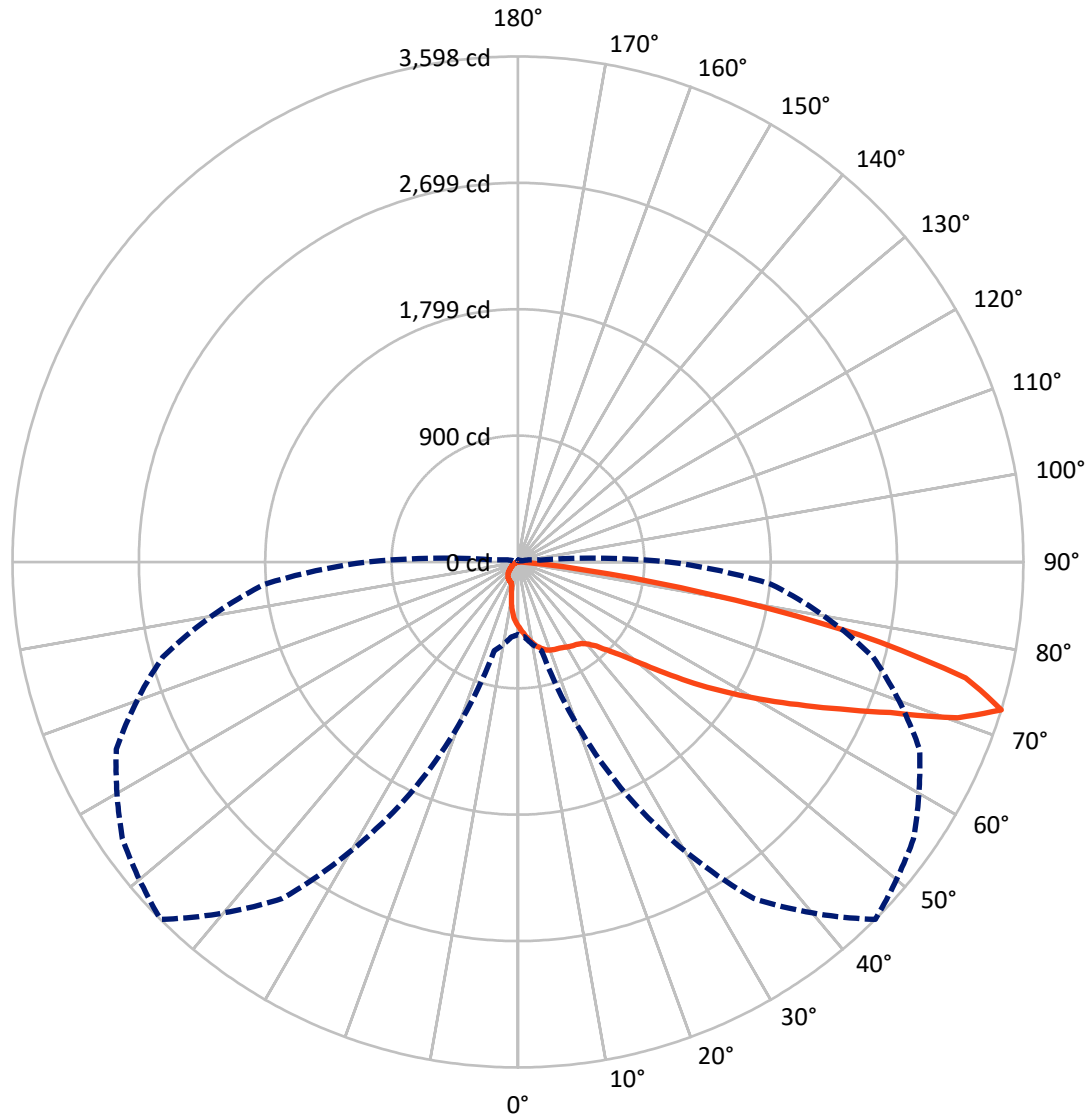
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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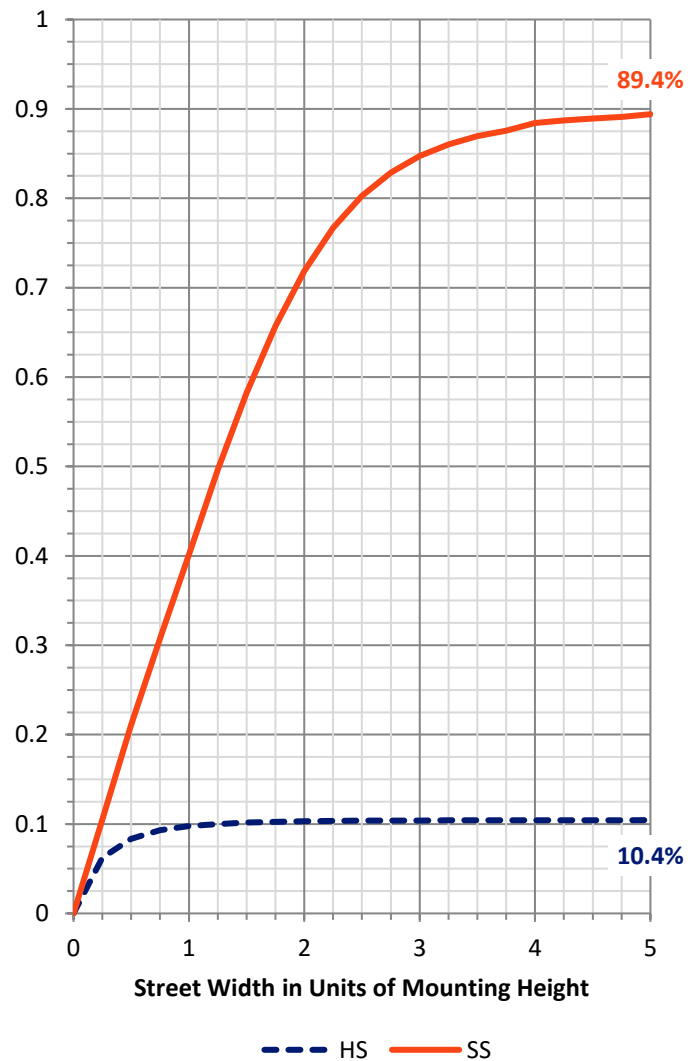
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	439.4	0.0	439.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	3742.6	0.0	3742.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	4182.0	0.0	4182.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.2	1.0
10°-20°	126.2	3.0
20°-30°	207.2	5.0
30°-40°	293.8	7.0
40°-50°	485.7	11.6
50°-60°	872.4	20.9
60°-70°	1211.4	29.0
70°-80°	878.7	21.0
80°-90°	63.5	1.5
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°	4182.0	100.0
0°-180°	4182.0	100.0

Coefficient of Utilization



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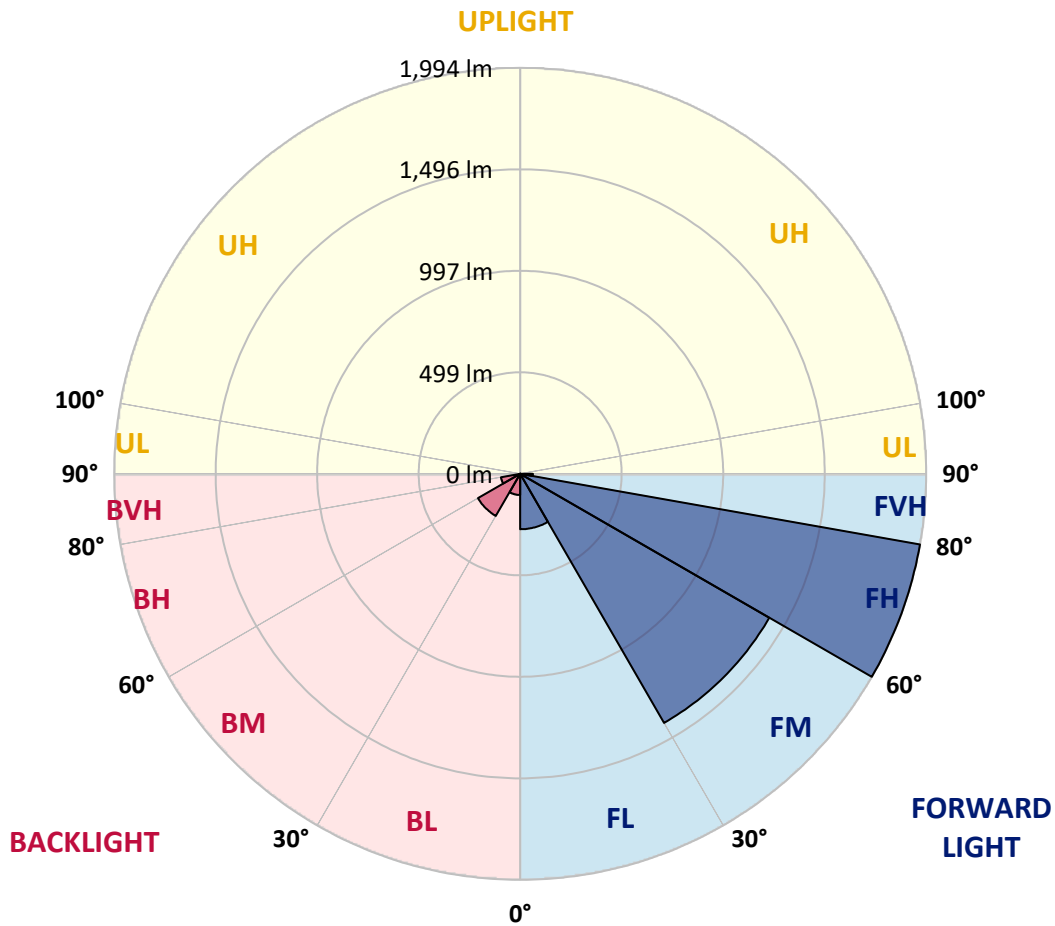
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	272.4	6.5			
FM (30°-60°)	1412.9	33.8			
FH (60°-80°)	1994.3	47.7			G2/5000
FVH (80°-90°)	63.0	1.5			G1/100
BL (0°-30°)	104.1	2.5	B0/110		
BM (30°-60°)	239.0	5.7	B1/1000		
BH (60°-80°)	95.8	2.3	B0/110		G0/110
BVH (80°-90°)	0.5	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°	45°	46°	55°	65°	75°
0°	458.1	458.1	458.1	458.1	458.1	458.1	458.1	458.1	458.1	458.1
2.5°	500.4	501.2	500.7	497.3	491.5	488.4	486.7	481.0	477.3	470.7
5°	546.4	549.8	547.8	540.9	530.1	522.4	520.1	508.4	497.8	485.6
7.5°	595.2	596.9	593.2	584.3	569.8	556.6	554.6	538.4	521.5	502.7
10°	637.4	639.4	633.7	620.9	604.3	588.0	585.2	567.2	547.2	524.1
12.5°	672.8	674.8	667.4	652.0	633.7	616.9	614.0	595.2	573.2	547.5
15°	699.6	703.3	693.4	676.8	657.1	640.3	638.8	620.3	598.9	570.3
17.5°	715.3	719.0	709.6	689.6	672.8	658.5	656.8	641.4	621.4	594.0
20°	717.9	721.3	711.3	693.9	679.9	668.5	667.7	656.5	642.0	615.7
22.5°	710.2	714.5	705.3	691.4	681.7	675.7	674.5	668.2	660.0	637.7
25°	702.2	705.6	698.8	686.5	681.4	680.8	681.7	680.5	678.8	660.0
27.5°	701.6	705.3	697.6	685.9	683.1	689.1	689.9	695.4	696.8	680.2
30°	706.5	709.1	701.6	689.4	687.9	701.6	701.9	711.6	713.9	697.4
32.5°	717.1	719.9	712.5	694.5	692.5	711.6	712.5	725.3	729.0	715.6
35°	741.9	745.3	736.7	708.8	701.6	721.0	723.6	738.7	746.2	735.0
37.5°	803.8	793.8	782.1	737.6	722.5	735.9	740.2	757.9	771.0	758.2
40°	957.7	926.3	889.7	786.7	759.0	767.6	771.0	788.7	806.7	794.1
42.5°	1188.6	1151.5	1092.7	899.7	814.1	818.4	821.0	836.4	861.8	851.8
45°	1394.4	1381.0	1321.1	1092.7	917.2	896.0	899.2	907.2	944.6	940.8
47.5°	1552.6	1544.9	1498.6	1314.2	1091.3	991.1	999.9	1003.6	1057.6	1070.7
50°	1674.2	1671.3	1629.9	1511.2	1318.8	1131.2	1134.4	1126.4	1207.2	1239.7
52.5°	1788.9	1798.6	1768.1	1694.1	1561.7	1314.8	1314.2	1276.5	1385.6	1434.7
55°	1892.5	1896.0	1899.1	1880.8	1806.0	1523.7	1518.3	1456.7	1592.5	1643.3
57.5°	1989.9	1991.3	2019.3	2056.7	2060.4	1748.1	1738.1	1664.2	1818.6	1854.9
60°	2055.2	2061.8	2120.9	2224.8	2270.2	1979.6	1974.2	1898.8	2048.7	2065.5
62.5°	1961.0	2001.0	2150.0	2356.1	2468.3	2236.2	2233.6	2162.9	2290.7	2277.0
65°	1587.4	1655.0	1917.1	2444.9	2662.7	2522.8	2526.5	2451.2	2539.4	2494.8
67.5°	1110.4	1181.8	1491.8	2452.0	2879.9	2859.4	2880.8	2762.6	2803.4	2703.5
70°	767.9	804.7	1006.5	2298.4	3049.2	3322.9	3322.4	3145.1	3066.0	2798.6
72.5°	516.4	535.5	653.7	1823.5	2924.7	3598.4	3581.8	3437.4	3154.5	2617.3
75°	217.8	231.8	302.6	1024.8	2313.9	3292.1	3247.3	3037.8	2802.8	2060.9
77.5°	69.1	75.1	119.3	366.8	1274.5	2474.6	2427.2	1897.1	1878.5	1033.9
80°	32.8	38.3	67.1	147.3	501.5	1345.9	1339.3	860.6	808.1	279.2
82.5°	14.3	16.8	37.1	78.8	224.4	480.1	489.8	292.9	242.3	105.9
85°	4.6	6.0	17.1	36.3	94.8	119.3	117.9	69.6	97.6	57.7
87.5°	0.0	0.0	5.7	8.3	9.7	6.9	7.7	6.0	27.1	16.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
458.1	0°	458.1	458.1	458.1	458.1	458.1	458.1	458.1	458.1	458.1	458.1
463.9	2.5°	460.4	455.9	447.9	440.4	433.9	427.3	423.3	417.6	417.0	417.0
471.3	5°	463.6	456.1	441.9	426.7	409.3	392.8	376.2	360.2	355.1	351.4
483.3	7.5°	472.7	461.0	438.5	409.6	376.5	340.3	314.9	287.4	276.9	271.2
499.3	10°	485.8	469.9	435.6	385.1	331.4	282.0	245.8	216.1	204.7	199.8
516.7	12.5°	500.4	480.7	430.5	354.5	282.0	222.9	187.5	173.8	172.1	172.1
537.5	15°	517.8	493.8	421.6	318.6	230.4	176.4	163.8	164.4	166.1	167.3
557.8	17.5°	535.8	507.8	407.6	278.3	184.7	158.7	159.0	159.9	161.3	162.4
579.7	20°	555.2	521.8	389.1	235.5	158.4	153.6	154.4	155.3	156.4	157.0
600.3	22.5°	576.0	534.9	367.1	193.5	149.6	149.3	149.6	150.4	151.9	151.9
624.3	25°	598.3	549.5	342.0	163.0	145.0	145.0	145.6	146.2	147.3	147.3
647.4	27.5°	621.1	562.9	315.4	147.0	141.0	140.7	140.7	141.6	142.2	142.4
670.2	30°	646.3	578.6	288.9	143.6	137.9	136.4	135.6	136.2	136.7	137.0
694.2	32.5°	671.9	593.7	265.2	145.0	134.7	132.2	129.3	128.7	128.7	129.9
719.0	35°	700.5	610.3	246.9	149.9	133.0	125.9	121.3	118.7	119.0	120.7
748.7	37.5°	734.7	630.3	233.5	154.1	131.9	118.7	111.3	108.2	106.2	108.2
789.6	40°	779.6	659.7	223.8	157.6	130.5	110.5	100.5	95.3	91.6	92.8
852.9	42.5°	845.5	705.9	220.1	157.9	127.3	100.8	89.3	82.5	77.1	77.4
948.3	45°	938.0	779.0	239.2	154.1	120.5	90.2	77.6	68.5	65.1	64.2
1090.7	47.5°	1064.7	885.5	283.5	146.4	110.5	79.9	66.2	58.5	55.9	54.5
1277.7	50°	1234.6	1022.2	332.5	137.9	100.5	70.2	56.8	52.0	50.2	48.8
1499.5	52.5°	1431.5	1160.9	372.8	129.3	90.5	61.7	50.8	48.0	46.5	45.4
1713.6	55°	1612.2	1256.6	370.5	120.2	80.8	54.8	46.5	44.8	43.1	42.0
1898.0	57.5°	1724.7	1270.0	305.4	110.2	69.6	49.4	42.5	41.4	39.4	38.0
2057.5	60°	1776.4	1193.5	214.1	97.1	58.5	44.2	38.3	37.7	35.1	33.1
2208.5	62.5°	1785.8	1051.3	142.7	80.8	48.8	39.4	34.0	33.1	29.7	26.3
2331.3	65°	1747.5	848.1	98.8	63.1	41.7	34.3	29.1	27.4	23.7	20.3
2360.4	67.5°	1626.5	595.4	68.8	45.4	35.4	27.1	23.1	22.6	19.7	16.8
2212.0	70°	1404.7	339.4	46.0	34.0	28.0	18.6	18.3	18.8	16.0	13.7
1807.2	72.5°	1077.0	155.3	28.5	24.8	19.1	12.6	14.6	14.8	12.3	10.3
1127.5	75°	634.0	66.5	18.0	16.0	9.7	8.3	10.6	10.8	8.3	6.6
412.2	77.5°	215.8	25.1	11.4	9.4	4.9	4.6	6.9	6.9	4.6	2.6
82.8	80°	49.1	9.4	5.7	3.7	2.3	2.0	2.3	2.0	1.1	0.3
25.4	82.5°	14.0	3.7	2.3	1.4	0.9	0.9	0.3	0.0	0.0	0.0
8.8	85°	4.0	1.7	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
3.1	87.5°	1.7	0.3	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

(END O

<u>180°</u>
458.1
418.5
353.1
272.0
199.8
172.1
167.3
162.4
157.3
152.4
147.6
142.7
137.6
130.7
121.6
107.6
92.2
76.2
63.1
53.7
48.5
45.1
41.4
37.7
32.5
24.5
19.1
16.0
12.6
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