

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: P939824

Luminaire Tested: **GALN-SB2C-835-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939824  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2C-835-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

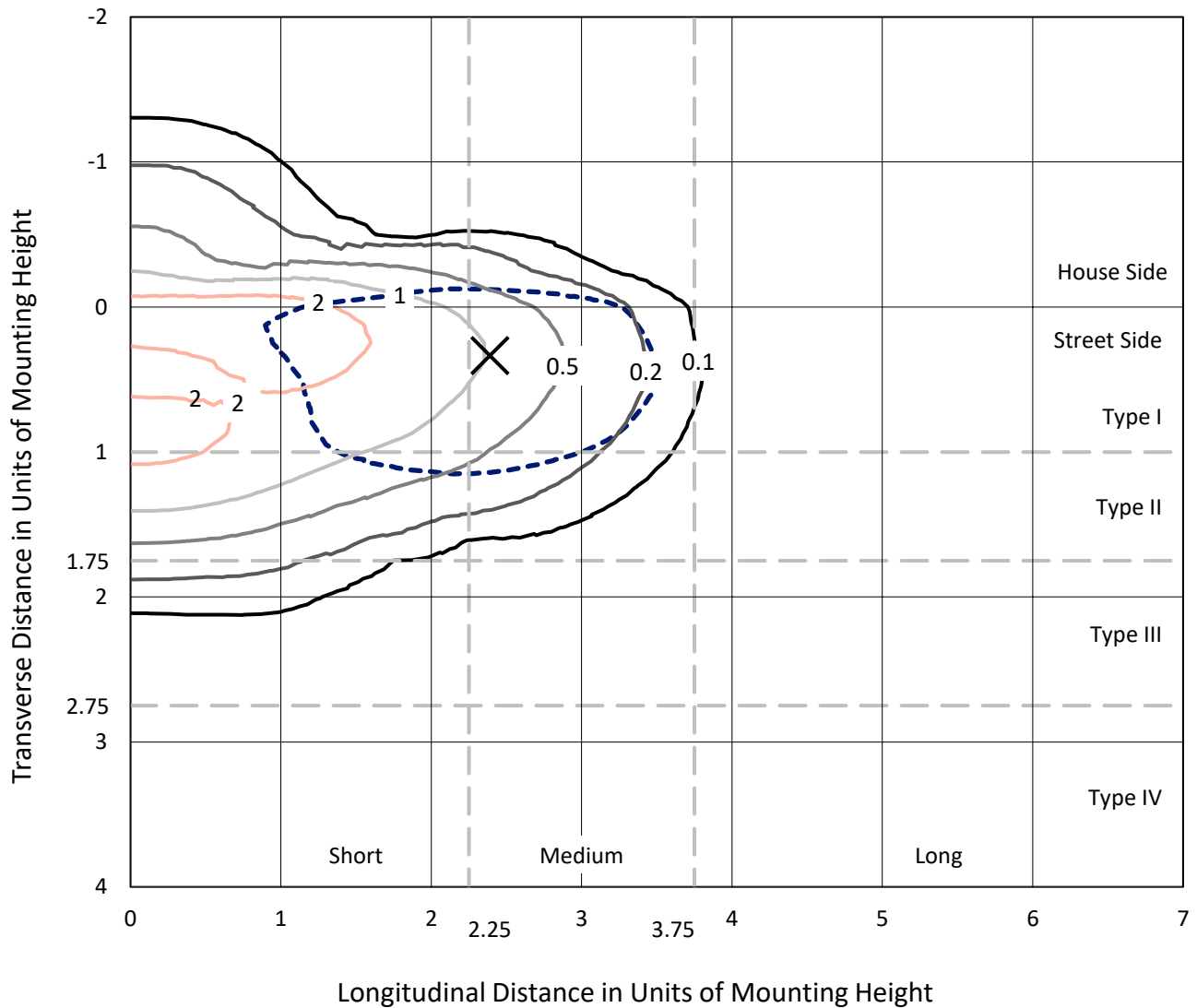
Lumens per Lamp: N/A  
Luminaire Lumens: 10144 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

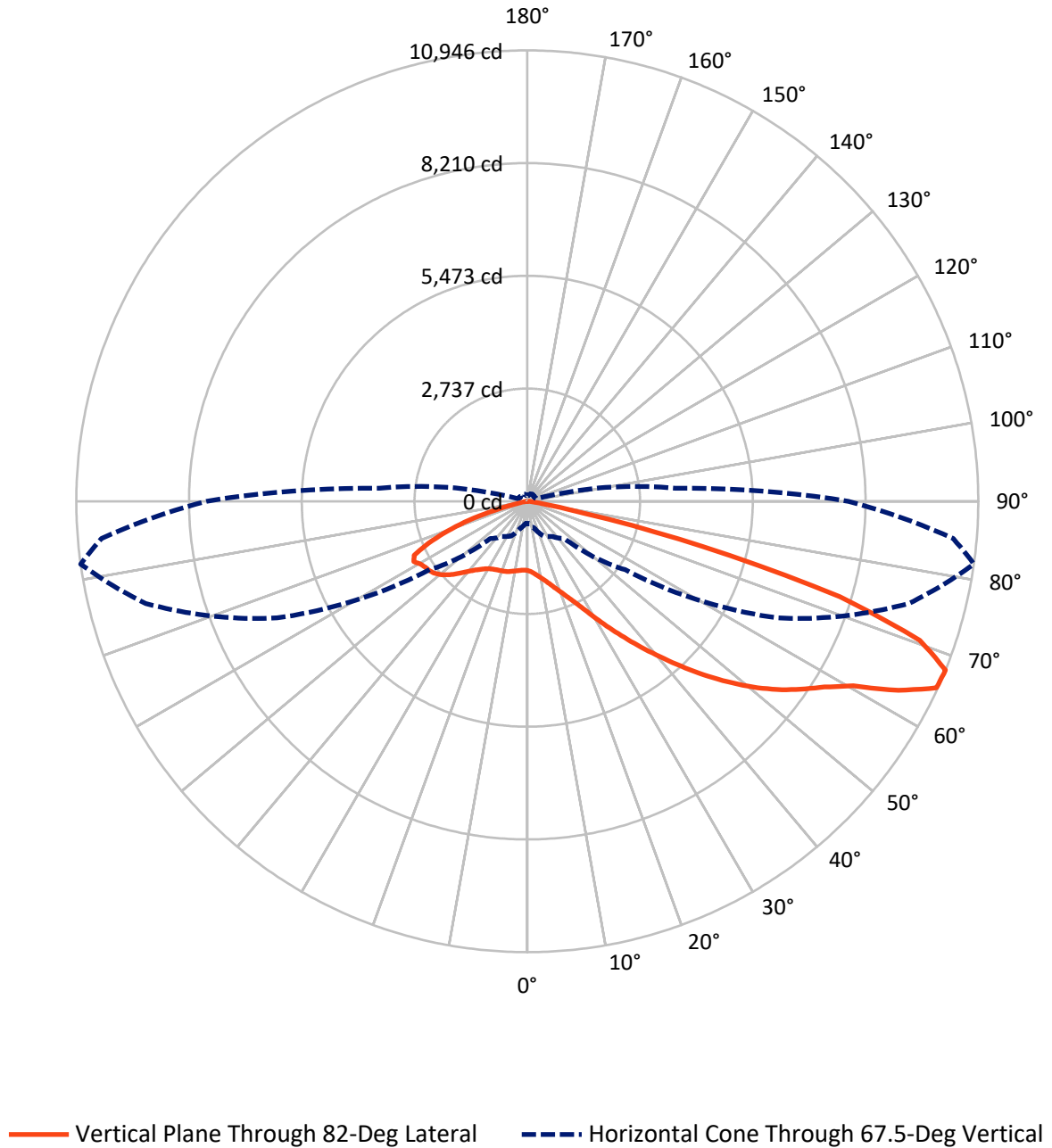
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1837.5	0.0	1837.5
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	8306.5	0.0	8306.5
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	10144.0	0.0	10144.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.7	1.5
10°-20°	389.1	3.8
20°-30°	623.2	6.1
30°-40°	1101.9	10.9
40°-50°	1930.7	19.0
50°-60°	2575.0	25.4
60°-70°	2397.2	23.6
70°-80°	920.0	9.1
80°-90°	57.1	0.6
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°	10144.0	100.0
0°-180°	10144.0	100.0

**Coefficient of Utilization**



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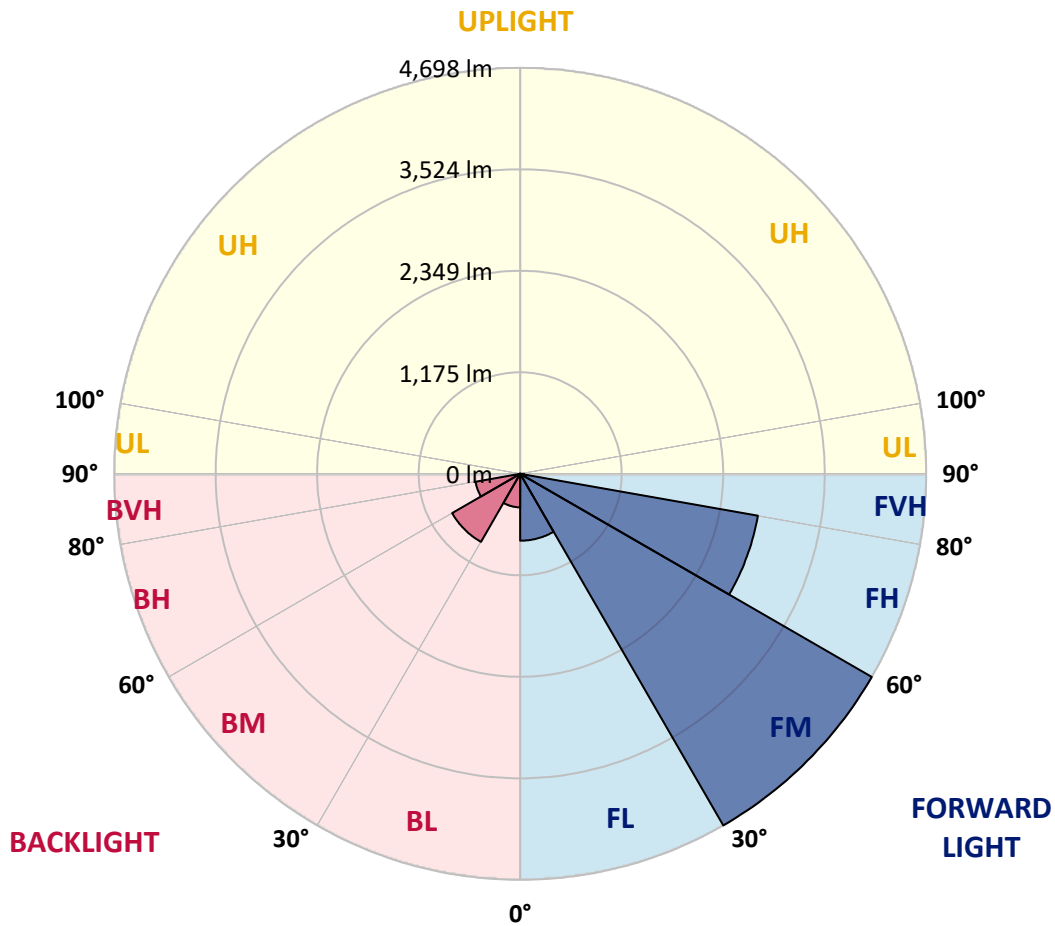
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	773.9	7.6			
FM (30°-60°)	4698.3	46.3			
FH (60°-80°)	2792.8	27.5			G2/5000
FVH (80°-90°)	41.5	0.4			G1/100
BL (0°-30°)	388.1	3.8	B1/500		
BM (30°-60°)	909.4	9.0	B1/1000		
BH (60°-80°)	524.5	5.2	B2/1000		G2/1000
BVH (80°-90°)	15.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1680.5	1680.5	1680.5	1680.5	1680.5	1680.5	1680.5	1680.5	1680.5	1680.5
2.5°	1776.2	1786.4	1780.6	1777.7	1772.5	1765.2	1759.4	1741.1	1722.1	1709.7
5°	1812.0	1822.2	1821.5	1824.4	1828.0	1830.2	1828.8	1808.3	1781.3	1760.1
7.5°	1781.3	1793.0	1802.5	1817.1	1842.7	1869.7	1882.8	1878.4	1850.7	1821.5
10°	1694.4	1706.8	1729.5	1763.8	1817.8	1876.2	1925.2	1947.8	1930.3	1898.2
12.5°	1535.2	1547.6	1592.1	1666.6	1757.2	1858.7	1952.2	2012.8	2017.2	1985.1
15°	1356.2	1368.7	1416.1	1509.6	1647.7	1810.5	1966.8	2081.5	2120.2	2092.4
17.5°	1245.2	1256.2	1292.0	1367.2	1511.1	1714.1	1961.7	2154.5	2242.9	2221.0
20°	1211.6	1221.1	1237.9	1290.5	1410.3	1614.1	1928.1	2223.2	2375.1	2362.7
22.5°	1247.4	1256.2	1261.3	1284.7	1359.9	1548.3	1885.7	2293.3	2528.4	2529.9
25°	1330.0	1338.7	1332.9	1347.5	1380.3	1527.9	1869.7	2375.8	2721.3	2737.3
27.5°	1465.8	1466.5	1452.7	1451.9	1457.0	1558.6	1886.5	2464.2	2964.5	2994.4
30°	1738.2	1727.3	1673.9	1616.2	1590.0	1650.6	1933.2	2568.6	3251.5	3304.8
32.5°	2158.2	2142.1	2044.2	1906.2	1767.4	1798.8	2017.2	2687.7	3564.1	3660.5
35°	2613.9	2609.5	2507.3	2302.0	2059.6	2009.9	2153.8	2844.0	3905.1	4058.5
37.5°	3037.5	3035.3	2976.9	2735.1	2440.1	2304.2	2372.9	3048.4	4270.3	4492.3
40°	3424.6	3431.1	3372.7	3156.5	2859.3	2681.8	2670.9	3301.1	4676.4	4964.9
42.5°	3759.1	3766.4	3707.2	3547.3	3273.4	3099.6	3036.8	3610.8	5073.0	5472.5
45°	3986.2	4031.5	4022.7	3894.9	3698.5	3518.1	3476.4	3999.4	5525.0	6010.7
47.5°	4050.5	4092.1	4157.8	4175.4	4055.6	3878.1	3927.8	4467.5	5982.2	6549.7
50°	3892.0	3930.7	4067.3	4249.1	4332.4	4277.6	4366.7	4969.2	6450.4	7087.2
52.5°	3579.4	3618.8	3791.2	4079.0	4418.6	4590.9	4807.1	5463.7	6903.9	7596.3
55°	3127.3	3169.0	3390.2	3716.0	4254.2	4720.2	5174.5	5957.4	7319.5	8054.2
57.5°	2512.4	2543.1	2773.1	3228.8	3840.9	4591.7	5445.4	6496.4	7711.0	8504.1
60°	1637.4	1664.4	1931.8	2440.1	3155.8	4162.2	5499.5	7097.5	8231.0	9089.1
62.5°	1088.9	1107.2	1265.7	1638.9	2222.4	3337.7	5183.2	7577.3	8993.4	10107.2
65°	747.1	765.4	923.9	1183.9	1435.9	2207.8	4274.0	7513.8	9684.3	10915.7
67.5°	533.1	548.5	682.9	928.3	1039.3	1282.5	2897.3	6701.6	9585.0	10946.4
70°	382.0	390.7	501.7	723.0	826.0	770.5	1611.1	5125.5	8392.4	10107.9
72.5°	267.3	270.2	348.4	550.7	665.3	562.4	766.9	3417.3	6347.4	7933.7
75°	181.1	184.8	234.4	403.9	533.9	429.4	406.1	1832.4	3726.2	4391.5
77.5°	111.0	112.5	151.2	276.1	399.5	327.2	261.5	776.4	1441.7	1415.4
80°	62.8	62.8	96.4	171.6	272.4	211.1	183.3	330.1	456.5	401.0
82.5°	35.1	35.8	70.1	106.6	180.4	124.9	100.8	152.6	197.2	174.6
85°	14.6	16.1	43.1	50.4	86.2	62.1	40.9	64.3	73.0	65.0
87.5°	1.5	2.2	13.1	9.5	10.2	12.4	5.8	12.4	10.2	10.2
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°
1680.5	0°	1680.5	1680.5	1680.5	1680.5	1680.5	1680.5	1680.5	1680.5	1680.5	1680.5
1705.3	2.5°	1691.5	1680.5	1652.8	1620.6	1578.3	1557.8	1530.1	1511.1	1495.0	1496.5
1747.7	5°	1724.3	1696.6	1634.5	1557.1	1460.7	1392.0	1319.0	1268.6	1227.7	1218.9
1806.1	7.5°	1769.6	1725.8	1617.0	1477.5	1314.6	1191.2	1080.9	1010.1	959.7	943.6
1877.0	10°	1828.0	1764.5	1594.3	1377.4	1143.0	986.0	867.6	812.1	777.8	766.1
1960.2	12.5°	1896.0	1809.1	1564.4	1255.5	966.2	815.1	739.8	712.1	701.1	697.5
2062.5	15°	1981.4	1864.6	1519.1	1110.9	816.5	710.6	678.5	674.8	676.3	674.8
2185.2	17.5°	2082.9	1925.2	1445.3	961.9	715.7	657.3	645.6	648.5	652.2	651.5
2322.5	20°	2193.9	1985.1	1351.1	829.7	647.1	619.3	612.8	615.7	618.6	617.1
2481.0	22.5°	2320.3	2049.3	1246.7	726.7	601.1	584.3	577.0	577.7	577.7	574.8
2681.8	25°	2471.5	2120.2	1137.1	653.7	566.0	552.9	544.1	541.2	536.8	528.0
2925.8	27.5°	2651.9	2195.4	1032.0	602.5	538.3	525.8	515.6	508.3	497.4	482.8
3218.6	30°	2854.9	2286.7	942.9	570.4	516.4	503.9	492.3	481.3	465.2	447.0
3555.3	32.5°	3093.7	2384.6	877.9	549.2	496.6	483.5	469.6	456.5	438.9	420.7
3933.6	35°	3378.6	2502.9	839.9	534.6	481.3	463.8	448.4	433.8	420.7	404.6
4344.8	37.5°	3687.5	2628.5	828.2	527.3	471.1	444.0	426.5	416.3	414.8	405.3
4789.6	40°	4025.6	2777.5	837.0	522.9	460.1	425.1	406.1	403.9	407.5	390.7
5265.0	42.5°	4383.5	2954.2	851.6	517.8	444.8	406.1	387.8	387.8	384.9	361.5
5767.5	45°	4770.6	3158.0	866.2	505.4	426.5	387.1	373.2	368.1	355.7	333.0
6272.9	47.5°	5160.6	3365.4	877.1	482.8	404.6	371.0	358.6	346.9	328.7	308.2
6768.8	50°	5530.9	3551.7	865.5	449.2	379.8	355.7	342.5	326.5	306.7	292.9
7238.4	52.5°	5861.7	3713.1	815.8	409.7	353.5	339.6	327.9	311.1	295.1	280.5
7662.0	55°	6149.5	3843.8	728.2	372.5	330.1	325.7	314.0	292.9	271.0	258.5
8082.0	57.5°	6425.6	3943.1	618.6	341.8	308.9	310.4	292.9	273.9	253.4	240.3
8648.0	60°	6792.9	4076.0	507.6	313.3	286.3	290.7	271.7	257.8	232.2	215.5
9618.6	62.5°	7380.1	4282.7	403.1	278.3	260.0	261.5	253.4	236.6	206.0	186.2
10338.0	65°	7846.1	4206.8	317.7	240.3	230.1	232.2	232.2	214.0	181.1	158.5
10376.7	67.5°	7793.5	3602.0	253.4	203.0	201.6	203.0	208.1	192.8	160.7	142.4
9586.5	70°	7179.3	2865.1	203.0	168.7	175.3	171.6	186.2	176.0	144.6	126.3
7432.0	72.5°	5858.1	2063.9	154.8	139.5	134.4	140.2	168.0	158.5	120.5	100.1
3936.5	75°	3423.1	1101.4	115.4	110.3	97.1	116.9	149.0	135.1	92.0	73.8
1206.5	77.5°	1114.5	384.2	84.7	81.1	72.3	94.2	127.1	113.9	75.2	58.4
353.5	80°	298.7	116.1	57.7	53.3	46.7	70.1	100.8	90.6	54.0	38.0
151.9	82.5°	119.8	48.9	33.6	29.9	25.6	48.2	79.6	73.0	40.2	24.1
47.5	85°	38.7	16.1	12.4	9.5	11.7	29.9	47.5	49.7	28.5	12.4
7.3	87.5°	5.1	2.2	2.2	2.9	2.2	5.1	14.6	13.9	8.0	1.5
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>
1680.5
1481.9
1199.2
927.5
757.4
695.3
674.1
650.0
616.4
573.3
526.6
481.3
445.5
421.4
403.1
404.6
391.5
361.5
332.3
307.5
290.7
279.0
257.1
238.8
213.3
184.8
156.3
139.5
124.2
97.9
71.6
56.2
37.2
24.1
9.5
0.0
0.0

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