

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: P949784

Luminaire Tested: **GALN-SB4B-935-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949784  
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-SB4B-935-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

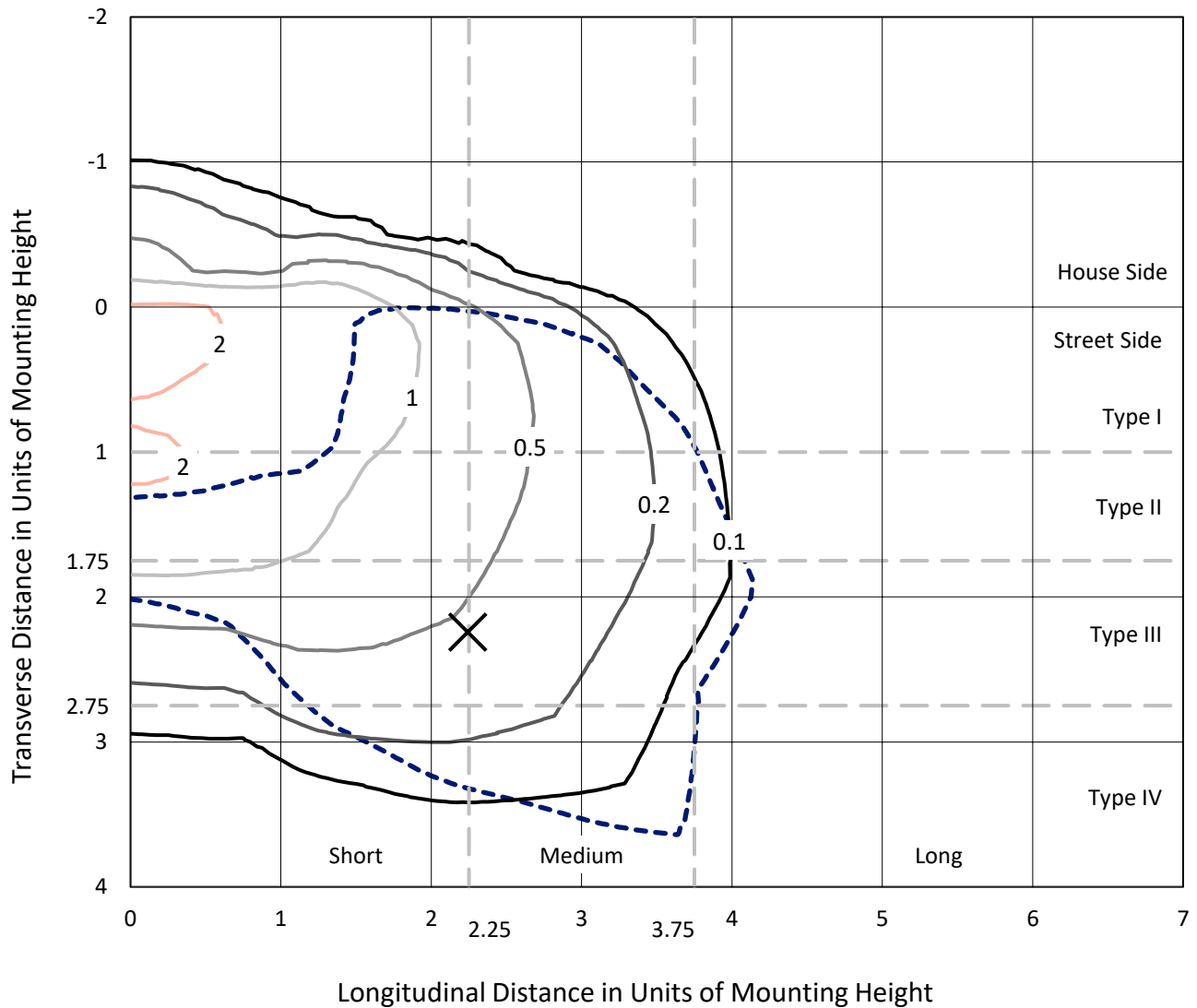
Lumens per Lamp: N/A  
Luminaire Lumens: 12093 lumens  
Efficiency: N/A  
Efficacy: 82.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

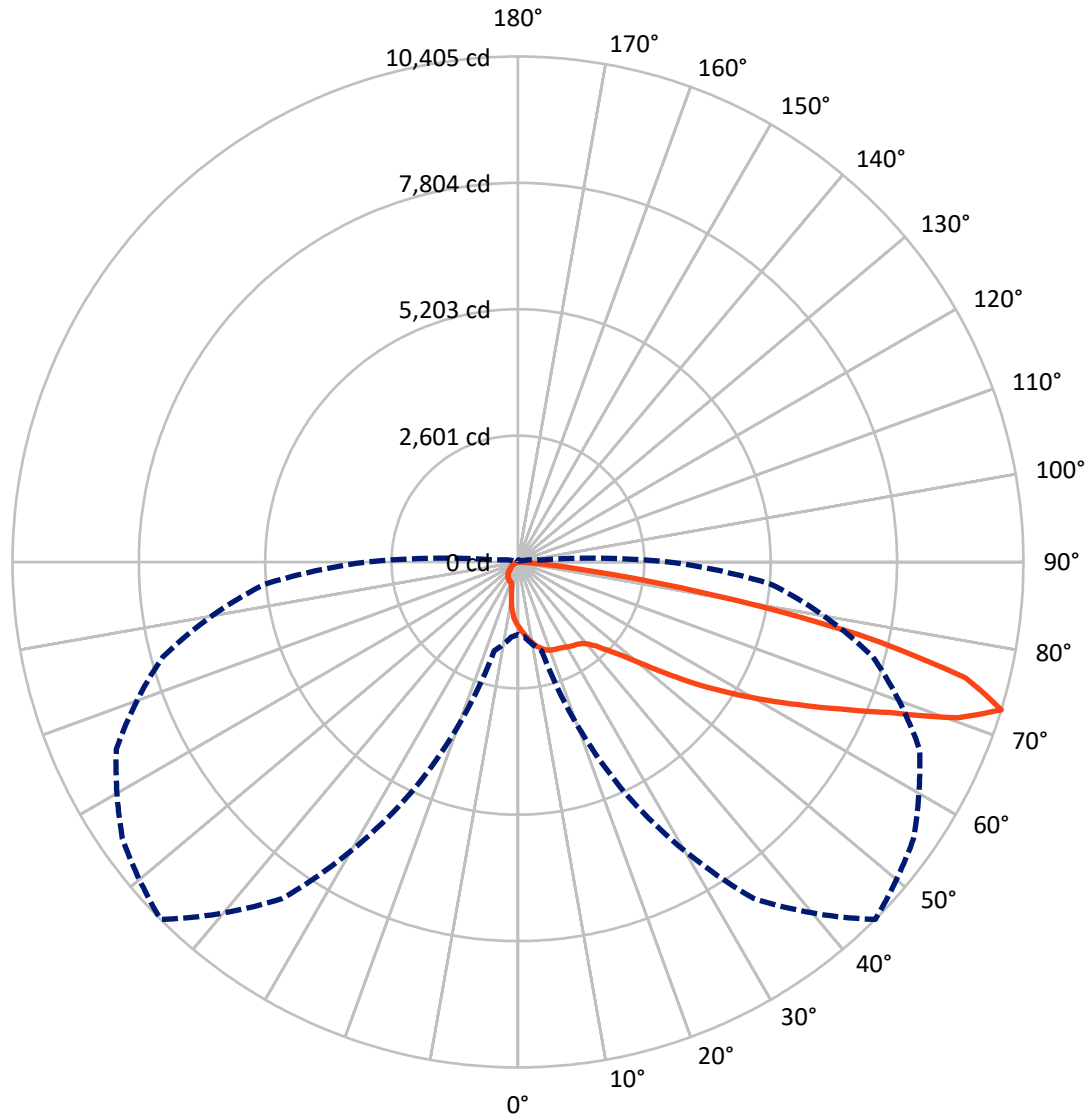
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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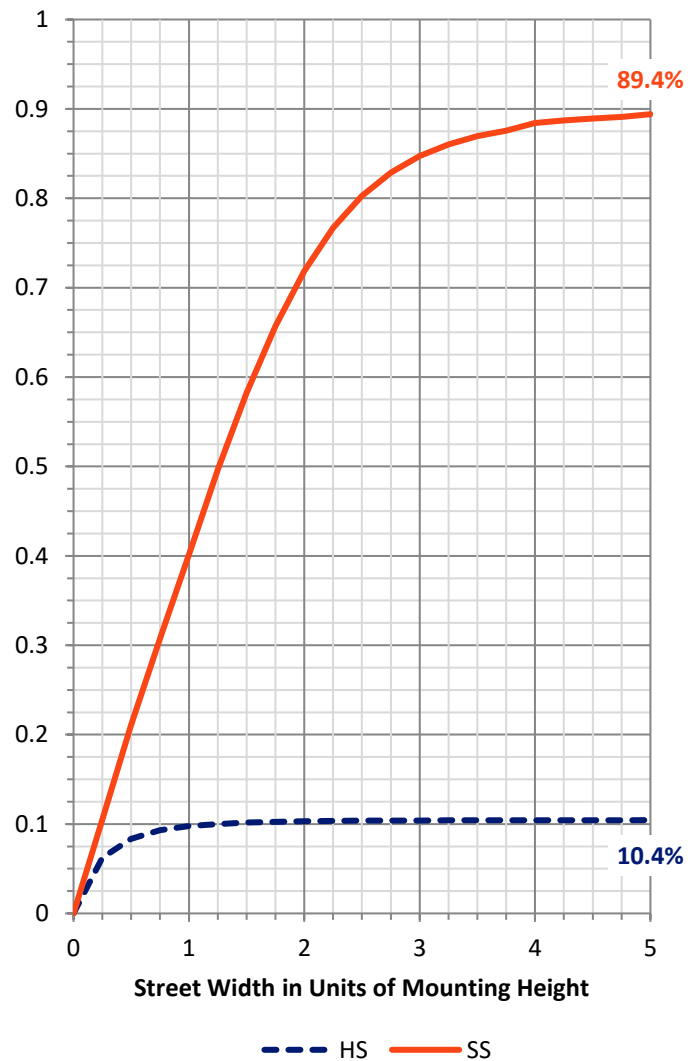
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1270.6	0.0	1270.6
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	10822.4	0.0	10822.4
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	12093.0	0.0	12093.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.8	1.0
10°-20°	364.8	3.0
20°-30°	599.1	5.0
30°-40°	849.6	7.0
40°-50°	1404.3	11.6
50°-60°	2522.7	20.9
60°-70°	3503.0	29.0
70°-80°	2540.9	21.0
80°-90°	183.7	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°	12093.0	100.0
0°-180°	12093.0	100.0

**Coefficient of Utilization**



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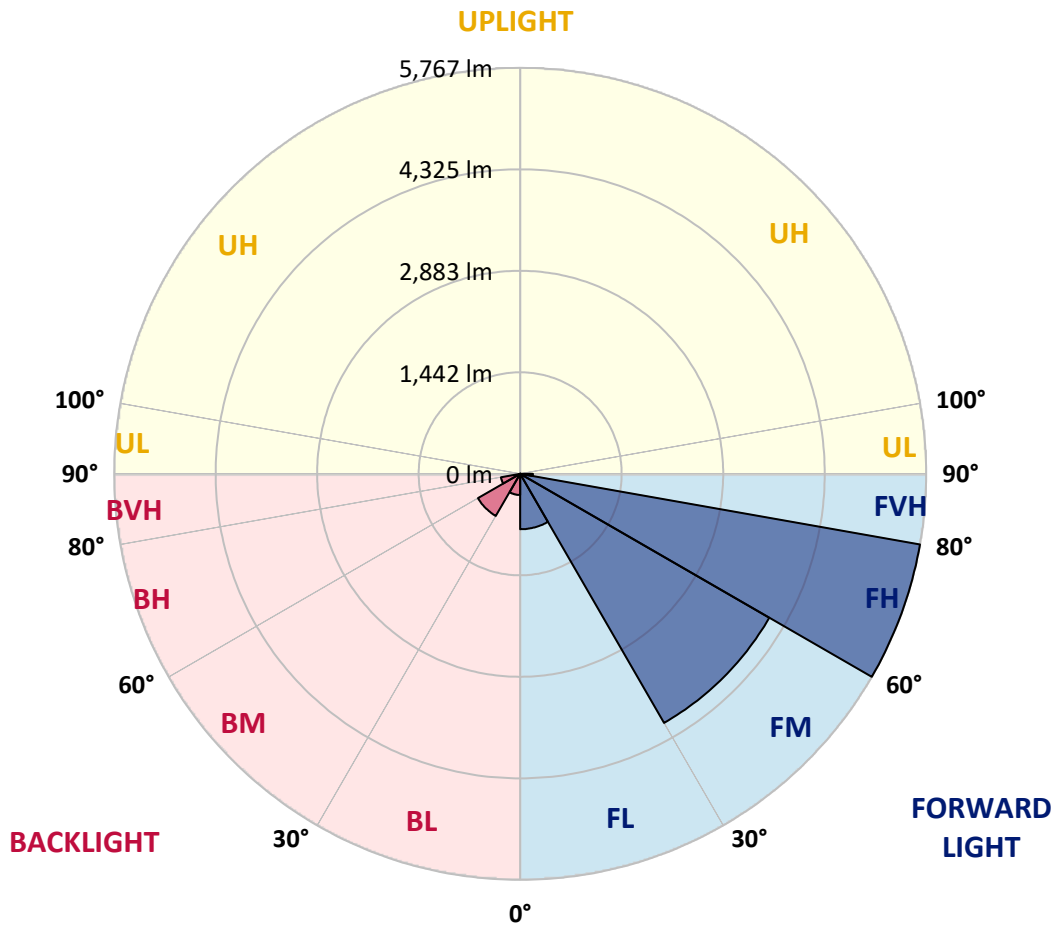
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	787.7	6.5			
FM (30°-60°)	4085.7	33.8			
FH (60°-80°)	5766.8	47.7			G3/7500
FVH (80°-90°)	182.2	1.5			G2/225
BL (0°-30°)	301.0	2.5	B1/500		
BM (30°-60°)	691.0	5.7	B1/1000		
BH (60°-80°)	277.1	2.3	B1/500		G1/500
BVH (80°-90°)	1.5	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-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1324.8	1324.8	1324.8	1324.8	1324.8	1324.8	1324.8	1324.8	1324.8	1324.8
2.5°	1447.0	1449.5	1447.8	1437.9	1421.4	1412.3	1407.4	1390.8	1380.1	1361.1
5°	1579.9	1589.8	1584.0	1564.2	1532.8	1510.5	1503.9	1470.1	1439.5	1404.1
7.5°	1721.0	1726.0	1715.2	1689.7	1647.6	1609.6	1603.8	1556.8	1508.1	1453.6
10°	1843.2	1849.0	1832.5	1795.3	1747.4	1700.4	1692.1	1640.1	1582.3	1515.5
12.5°	1945.5	1951.3	1929.9	1885.3	1832.5	1783.8	1775.5	1721.0	1657.5	1583.2
15°	2023.1	2033.9	2005.0	1957.1	1900.1	1851.4	1847.3	1793.7	1731.8	1649.2
17.5°	2068.5	2079.3	2052.0	1994.2	1945.5	1904.3	1899.3	1854.7	1797.0	1717.7
20°	2076.0	2085.9	2057.0	2006.6	1966.2	1933.2	1930.7	1898.5	1856.4	1780.5
22.5°	2053.7	2066.0	2039.6	1999.2	1971.1	1953.8	1950.5	1932.3	1908.4	1844.0
25°	2030.6	2040.5	2020.7	1985.2	1970.3	1968.6	1971.1	1967.8	1962.9	1908.4
27.5°	2028.9	2039.6	2017.3	1983.5	1975.3	1992.6	1995.1	2010.7	2014.9	1967.0
30°	2042.9	2050.4	2028.9	1993.4	1989.3	2028.9	2029.7	2057.8	2064.4	2016.5
32.5°	2073.5	2081.7	2060.3	2008.3	2002.5	2057.8	2060.3	2097.4	2108.1	2069.4
35°	2145.3	2155.2	2130.4	2049.5	2028.9	2085.0	2092.5	2136.2	2157.7	2125.5
37.5°	2324.4	2295.5	2261.7	2132.9	2089.2	2128.0	2140.3	2191.5	2229.5	2192.3
40°	2769.3	2678.5	2572.9	2274.9	2194.8	2219.6	2229.5	2280.7	2332.7	2296.3
42.5°	3437.1	3329.8	3159.7	2601.8	2354.1	2366.5	2373.9	2418.5	2492.0	2463.1
45°	4032.2	3993.4	3820.1	3159.7	2652.1	2591.0	2600.1	2623.2	2731.3	2720.6
47.5°	4489.5	4467.2	4333.5	3800.3	3155.6	2865.9	2891.5	2902.2	3058.2	3096.2
50°	4841.1	4832.9	4713.2	4369.8	3813.5	3271.2	3280.3	3257.1	3490.7	3584.8
52.5°	5173.0	5201.0	5112.7	4898.9	4515.9	3801.9	3800.3	3691.3	4006.6	4148.6
55°	5472.6	5482.5	5491.6	5438.8	5222.5	4406.1	4390.5	4212.2	4605.1	4752.0
57.5°	5754.1	5758.2	5839.1	5947.2	5957.9	5054.9	5026.0	4812.3	5258.8	5363.6
60°	5943.1	5962.1	6132.9	6433.4	6564.6	5724.4	5708.7	5490.8	5924.1	5972.8
62.5°	5670.7	5786.3	6217.1	6813.1	7137.5	6466.4	6459.0	6254.3	6624.1	6584.4
65°	4590.2	4785.8	5543.6	7069.8	7699.6	7295.1	7305.9	7088.0	7343.0	7214.3
67.5°	3210.9	3417.3	4313.7	7090.4	8327.8	8268.3	8330.2	7988.5	8106.5	7817.6
70°	2220.4	2326.9	2910.5	6646.4	8817.2	9608.8	9607.2	9094.6	8865.9	8092.5
72.5°	1493.2	1548.5	1890.2	5272.8	8457.3	10405.4	10357.5	9939.8	9121.8	7568.4
75°	629.8	670.2	875.0	2963.3	6690.9	9519.7	9390.1	8784.2	8104.9	5959.6
77.5°	199.8	217.1	345.0	1060.7	3685.5	7155.6	7018.6	5485.8	5432.1	2989.7
80°	94.9	110.6	194.0	425.9	1450.3	3891.9	3872.9	2488.7	2336.8	807.3
82.5°	41.3	48.7	107.3	227.8	648.8	1388.4	1416.4	846.9	700.8	306.2
85°	13.2	17.3	49.5	104.8	274.0	345.0	340.9	201.4	282.3	166.7
87.5°	0.0	0.0	16.5	23.9	28.1	19.8	22.3	17.3	78.4	46.2
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°
1324.8	0°	1324.8	1324.8	1324.8	1324.8	1324.8	1324.8	1324.8	1324.8	1324.8	1324.8
1341.3	2.5°	1331.4	1318.2	1295.1	1273.6	1254.7	1235.7	1224.1	1207.6	1206.0	1206.0
1362.8	5°	1340.5	1319.0	1277.8	1234.0	1183.7	1135.8	1087.9	1041.7	1026.8	1016.1
1397.5	7.5°	1366.9	1333.1	1267.9	1184.5	1088.7	983.9	910.4	831.2	800.7	784.2
1443.7	10°	1404.9	1358.7	1259.6	1113.5	958.3	815.5	710.7	624.8	591.8	577.8
1494.0	12.5°	1447.0	1390.0	1244.7	1025.2	815.5	644.7	542.3	502.7	497.7	497.7
1554.3	15°	1497.3	1428.0	1219.2	921.2	666.1	510.1	473.8	475.4	480.4	483.7
1612.9	17.5°	1549.3	1468.4	1178.7	804.8	534.1	458.9	459.8	462.2	466.4	469.7
1676.4	20°	1605.5	1508.9	1125.1	681.0	458.1	444.1	446.6	449.0	452.3	454.0
1735.9	22.5°	1665.7	1546.9	1061.5	559.6	432.5	431.7	432.5	435.0	439.1	439.1
1805.2	25°	1730.1	1589.0	988.9	471.3	419.3	419.3	421.0	422.6	425.9	425.9
1872.1	27.5°	1796.1	1627.7	912.1	425.1	407.8	406.9	406.9	409.4	411.1	411.9
1938.1	30°	1868.8	1673.1	835.3	415.2	398.7	394.6	392.1	393.7	395.4	396.2
2007.4	32.5°	1943.1	1716.9	766.8	419.3	389.6	382.2	373.9	372.3	372.3	375.6
2079.3	35°	2025.6	1764.8	714.0	433.4	384.7	364.0	350.8	343.4	344.2	349.2
2165.1	37.5°	2124.7	1822.5	675.2	445.7	381.3	343.4	321.9	312.8	307.1	312.8
2283.1	40°	2254.2	1907.6	647.1	455.6	377.2	319.4	290.6	275.7	265.0	268.3
2466.4	42.5°	2444.9	2041.3	636.4	456.5	368.1	291.4	258.4	238.5	222.9	223.7
2742.1	45°	2712.4	2252.6	691.7	445.7	348.3	260.8	224.5	198.1	188.2	185.7
3154.0	47.5°	3078.9	2560.5	819.7	423.4	319.4	231.1	191.5	169.2	161.8	157.7
3694.6	50°	3570.0	2955.9	961.6	398.7	290.6	203.1	164.3	150.2	145.3	141.1
4336.0	52.5°	4139.5	3357.0	1078.0	373.9	261.7	178.3	146.9	138.7	134.5	131.2
4955.1	55°	4662.0	3633.5	1071.4	347.5	233.6	158.5	134.5	129.6	124.6	121.3
5488.3	57.5°	4987.2	3672.3	883.2	318.6	201.4	142.8	123.0	119.7	113.9	109.8
5949.7	60°	5136.6	3451.1	619.1	280.6	169.2	127.9	110.6	109.0	101.5	95.7
6386.3	62.5°	5163.9	3040.1	412.7	233.6	141.1	113.9	98.2	95.7	85.8	75.9
6741.3	65°	5053.3	2452.4	285.6	182.4	120.5	99.1	84.2	79.2	68.5	58.6
6825.5	67.5°	4703.3	1721.8	198.9	131.2	102.4	78.4	66.9	65.2	57.0	48.7
6396.3	70°	4061.9	981.4	132.9	98.2	80.9	53.7	52.8	54.5	46.2	39.6
5225.8	72.5°	3114.3	449.0	82.5	71.8	55.3	36.3	42.1	42.9	35.5	29.7
3260.4	75°	1833.3	192.3	52.0	46.2	28.1	23.9	30.5	31.4	23.9	19.0
1191.9	77.5°	624.0	72.6	33.0	27.2	14.0	13.2	19.8	19.8	13.2	7.4
239.4	80°	142.0	27.2	16.5	10.7	6.6	5.8	6.6	5.8	3.3	0.8
73.5	82.5°	40.4	10.7	6.6	4.1	2.5	2.5	0.8	0.0	0.0	0.0
25.6	85°	11.6	5.0	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
9.1	87.5°	5.0	0.8	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>
1324.8
1210.1
1021.1
786.6
577.8
497.7
483.7
469.7
454.8
440.8
426.7
412.7
397.9
378.0
351.6
311.2
266.6
220.4
182.4
155.2
140.3
130.4
119.7
109.0
94.1
71.0
55.3
46.2
36.3
26.4
16.5
5.8
0.0
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