

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: P939688

Luminaire Tested: **GALN-SB2B-927-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939688
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2B-927-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5190 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

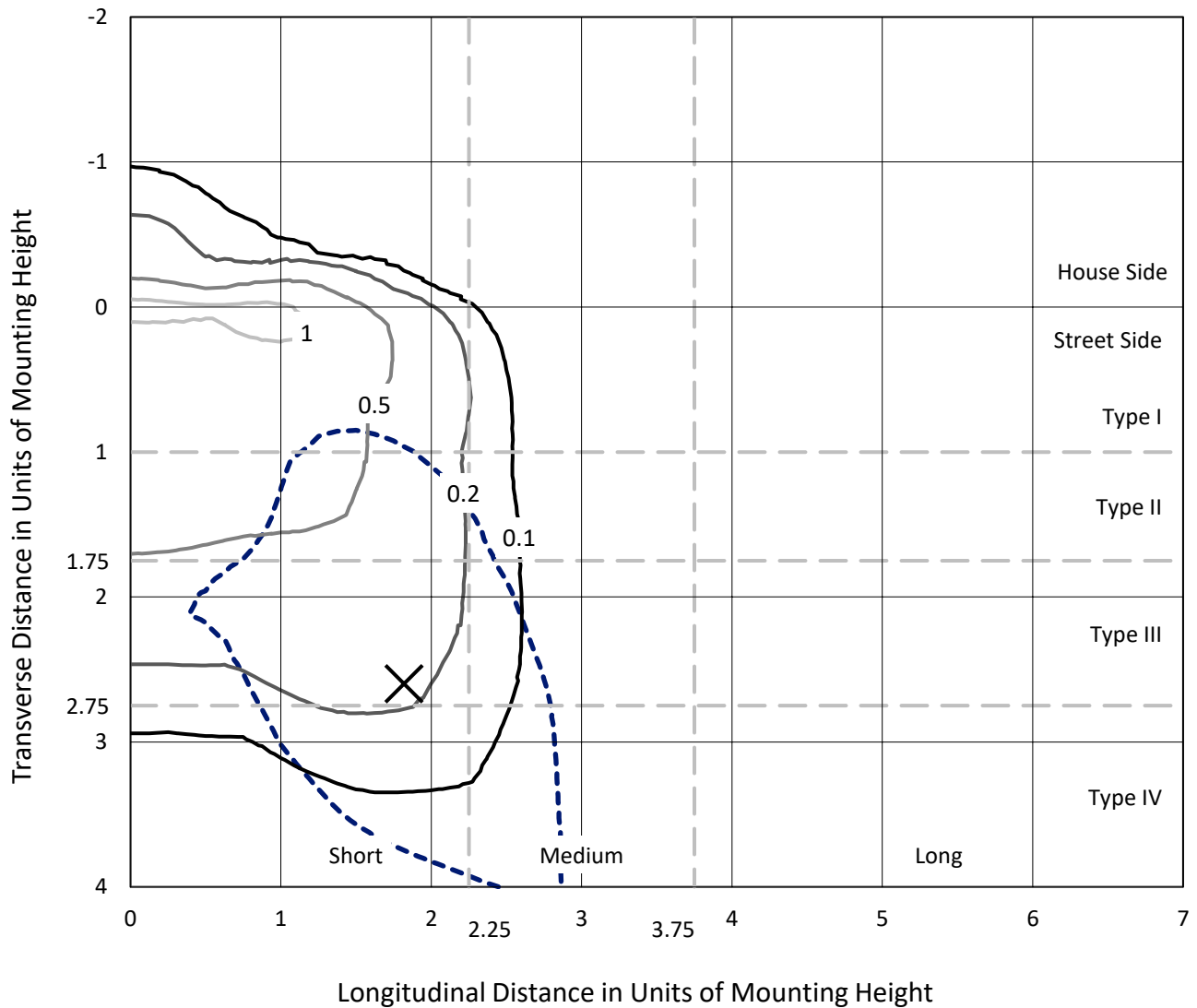
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

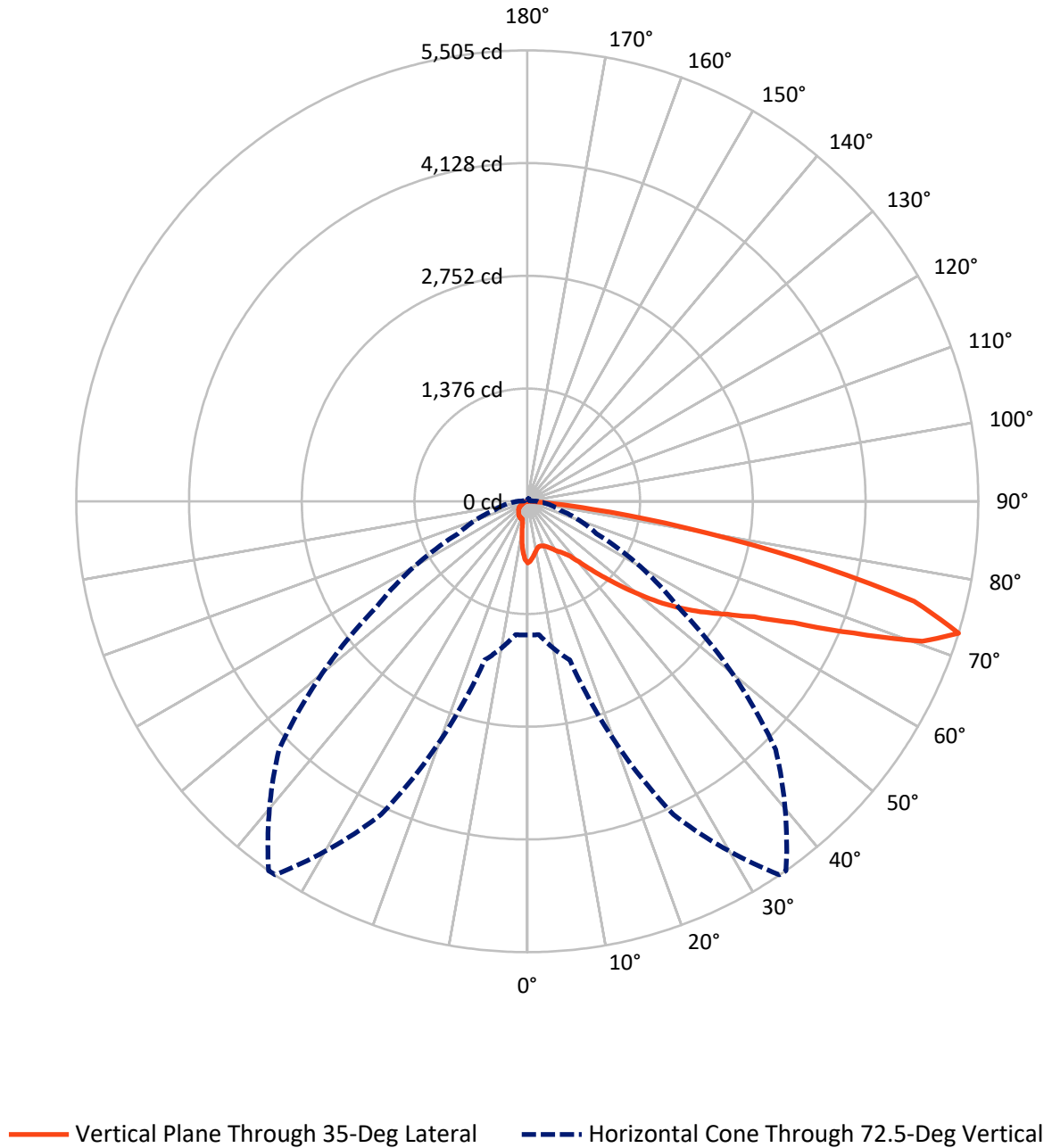
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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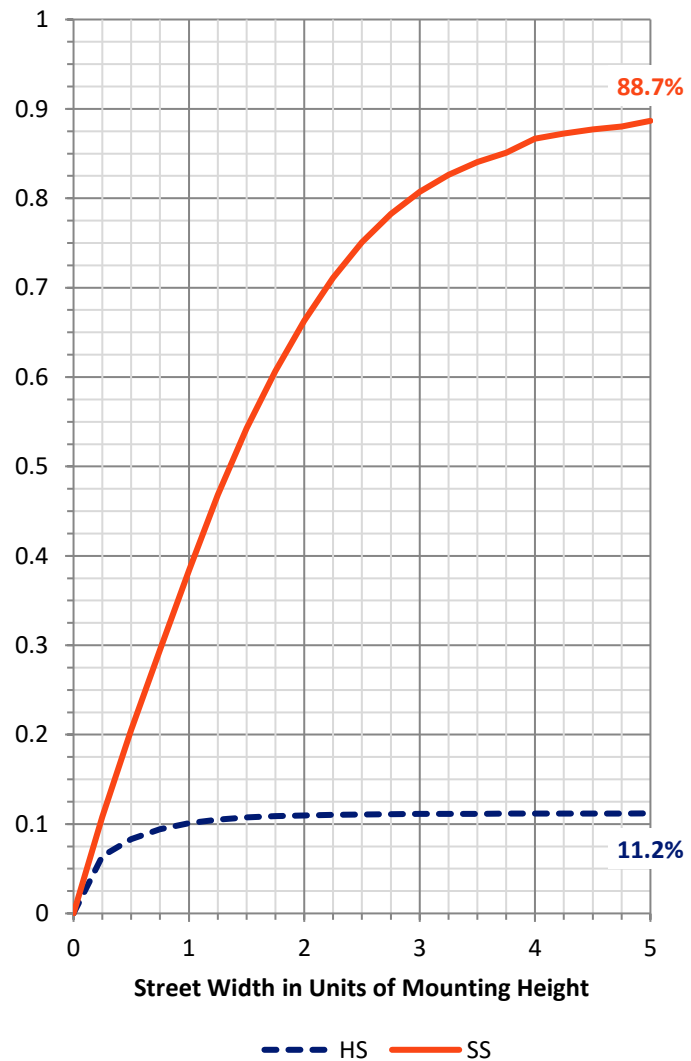
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	584.1	0.0	584.1
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	4605.9	0.0	4605.9
	% Fixture	88.7	0.0	88.7
Total	Lumens	5190.0	0.0	5190.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.8	1.2
10°-20°	144.6	2.8
20°-30°	234.9	4.5
30°-40°	391.9	7.6
40°-50°	741.5	14.3
50°-60°	1178.3	22.7
60°-70°	1457.6	28.1
70°-80°	906.1	17.5
80°-90°	73.2	1.4
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°	5190.0	100.0
0°-180°	5190.0	100.0

Coefficient of Utilization



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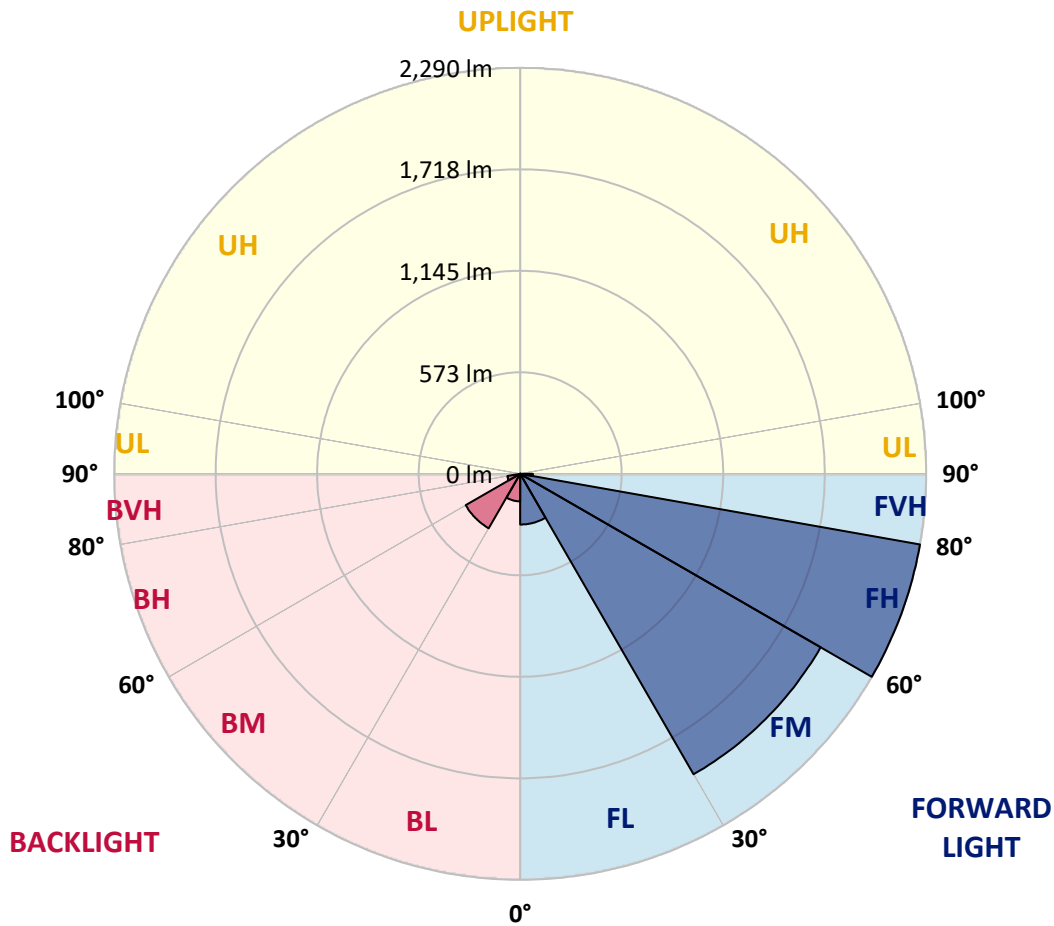
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	286.1	5.5			
FM (30°-60°)	1957.2	37.7			
FH (60°-80°)	2290.4	44.1			G2/5000
FVH (80°-90°)	72.2	1.4			G1/100
BL (0°-30°)	155.2	3.0	B1/500		
BM (30°-60°)	354.6	6.8	B1/1000		
BH (60°-80°)	73.3	1.4	B0/110		G0/110
BVH (80°-90°)	1.0	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°	34°	35°	45°	55°	65°	75°
0°	752.2	752.2	752.2	752.2	752.2	752.2	752.2	752.2	752.2	752.2
2.5°	718.7	724.8	726.0	727.9	727.9	730.1	734.0	739.3	748.0	752.6
5°	662.5	667.0	672.7	677.3	686.0	687.2	702.0	716.5	736.6	751.8
7.5°	605.8	611.1	618.7	629.8	641.2	644.6	667.0	691.4	723.3	751.8
10°	565.9	566.2	573.1	584.1	602.4	606.6	633.9	668.5	708.5	747.3
12.5°	543.4	546.1	549.1	557.5	575.0	577.7	606.9	647.6	693.6	744.6
15°	543.4	545.3	547.2	551.4	565.5	567.8	593.6	634.3	686.0	745.7
17.5°	549.1	552.2	550.7	555.6	570.4	571.9	594.8	630.5	685.7	753.0
20°	562.8	565.1	562.1	565.1	579.9	583.0	606.6	637.7	692.1	765.5
22.5°	584.5	585.6	578.4	580.7	595.9	599.7	627.1	658.3	707.7	785.7
25°	611.9	614.2	603.1	605.8	620.2	624.8	656.4	689.1	732.4	813.4
27.5°	643.4	644.6	635.1	634.7	653.3	659.8	691.7	727.1	765.5	848.4
30°	679.6	683.0	673.9	672.3	695.9	701.2	732.8	773.9	814.2	900.9
32.5°	708.1	710.8	705.4	709.2	733.2	737.4	782.6	840.1	890.6	975.4
35°	749.2	750.7	738.5	745.4	772.7	783.4	850.7	932.8	986.8	1069.0
37.5°	897.9	897.9	846.1	812.3	838.5	848.0	943.9	1049.6	1105.5	1194.5
40°	1103.6	1100.2	1024.5	955.3	951.9	970.5	1076.6	1196.8	1258.7	1345.1
42.5°	1323.0	1317.7	1214.6	1146.2	1134.8	1141.2	1229.8	1378.2	1441.3	1528.7
45°	1517.7	1516.2	1421.9	1329.9	1309.3	1329.9	1421.1	1590.4	1635.6	1727.6
47.5°	1680.9	1680.9	1612.0	1551.9	1541.3	1553.5	1680.1	1825.8	1821.6	1939.5
50°	1868.7	1867.2	1801.8	1775.9	1787.0	1804.1	1978.2	2073.7	2014.0	2147.5
52.5°	2000.3	2009.4	1987.0	1982.8	2039.1	2068.8	2281.0	2316.3	2186.3	2344.8
55°	2104.5	2115.1	2141.0	2170.3	2278.7	2317.5	2574.2	2546.4	2330.4	2516.0
57.5°	2252.1	2236.8	2276.8	2334.6	2509.9	2556.7	2858.2	2763.5	2446.4	2654.8
60°	2431.2	2433.4	2440.3	2513.3	2740.7	2800.8	3138.1	2968.9	2520.9	2740.0
62.5°	2646.4	2649.8	2663.9	2776.1	3050.7	3107.3	3436.3	3137.0	2555.1	2716.0
65°	2631.6	2646.0	2803.1	3186.8	3521.8	3577.7	3784.2	3254.9	2503.4	2497.0
67.5°	2397.3	2420.9	2683.7	3677.4	4232.2	4294.6	4204.8	3278.1	2280.2	1941.7
70°	2090.0	2098.4	2414.4	4118.5	5054.8	5117.9	4581.3	3022.9	1730.3	1083.1
72.5°	1632.2	1634.1	2004.9	4220.8	5501.2	5504.6	4285.8	2244.1	930.6	416.0
75°	1166.0	1154.5	1342.8	3423.0	4839.9	4878.7	3213.0	1052.6	355.6	196.6
77.5°	625.2	637.7	759.8	2030.0	3343.5	3409.6	1753.1	303.5	181.0	133.9
80°	193.2	203.8	311.5	929.4	1893.8	1933.8	649.9	135.0	126.3	95.5
82.5°	60.8	63.1	145.3	390.6	786.1	804.3	188.2	76.4	86.3	63.1
85°	17.5	17.9	64.6	145.6	194.3	198.1	52.9	29.7	49.4	39.2
87.5°	1.9	6.1	24.3	24.3	17.1	16.7	5.7	6.5	14.1	4.9
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°
752.2	0°	752.2	752.2	752.2	752.2	752.2	752.2	752.2	752.2	752.2	752.2
755.6	2.5°	753.7	754.1	749.2	740.8	731.7	724.1	714.6	707.0	701.6	700.1
762.5	5°	759.1	756.4	742.3	716.8	686.4	660.2	630.9	607.7	592.5	586.0
769.7	7.5°	767.0	759.4	728.6	678.4	620.2	568.5	516.0	475.4	449.5	436.6
776.5	10°	773.9	758.7	705.8	622.9	533.9	455.6	384.8	335.8	308.4	295.5
784.5	12.5°	780.3	758.3	676.1	557.1	436.6	340.7	274.9	250.6	243.0	240.3
797.5	15°	792.5	759.4	638.9	481.8	339.6	257.5	233.5	233.1	234.6	233.9
817.2	17.5°	809.2	760.6	596.7	402.0	262.0	227.0	225.9	229.3	231.6	230.5
842.0	20°	830.9	765.1	551.8	322.9	225.1	219.4	222.1	225.1	227.0	225.1
875.0	22.5°	861.3	773.1	502.7	259.4	213.3	214.9	217.1	220.6	222.5	219.8
917.2	25°	898.6	785.7	454.4	225.5	207.6	209.5	213.0	216.8	219.0	216.4
970.5	27.5°	946.9	805.8	409.9	217.9	201.9	203.1	208.0	213.7	216.8	213.3
1046.2	30°	1016.9	838.9	371.5	221.3	198.5	195.8	202.7	210.7	214.1	211.1
1149.2	32.5°	1109.7	885.7	348.0	226.7	197.0	187.5	193.9	204.2	209.9	208.0
1283.8	35°	1231.4	956.8	338.8	232.7	195.8	178.7	183.3	194.3	204.2	206.1
1453.5	37.5°	1378.9	1055.7	341.5	235.4	192.4	171.5	173.8	183.3	196.2	202.3
1644.4	40°	1546.6	1170.9	356.7	232.7	188.6	165.4	165.8	173.0	184.4	193.6
1849.7	42.5°	1719.7	1305.5	384.8	222.8	185.2	160.1	159.0	163.9	171.5	178.0
2054.7	45°	1884.3	1443.9	412.6	209.2	181.0	154.8	152.1	154.0	155.5	158.2
2254.3	47.5°	2028.1	1541.3	404.6	196.6	175.3	148.7	144.1	143.4	138.8	138.4
2432.7	50°	2127.3	1562.6	359.4	184.1	166.9	141.8	134.6	130.1	122.1	118.3
2566.2	52.5°	2158.9	1478.6	293.6	171.5	153.3	132.7	122.5	115.2	105.3	101.9
2643.0	55°	2117.1	1313.9	234.6	156.3	134.2	120.6	109.1	99.6	91.6	87.5
2651.4	57.5°	2014.8	1104.3	185.6	138.4	114.1	106.9	95.5	85.9	79.1	74.9
2558.6	60°	1845.1	876.9	146.8	117.1	97.4	92.0	80.2	74.2	68.1	63.1
2319.0	62.5°	1587.7	626.0	115.2	92.8	81.4	75.3	68.5	63.9	56.7	49.8
1888.1	65°	1239.0	382.9	89.0	68.1	65.4	62.4	58.2	54.0	45.3	38.4
1231.7	67.5°	781.5	181.4	63.5	51.3	51.7	50.2	48.3	44.9	38.4	32.3
551.8	70°	344.2	87.8	41.8	39.2	38.4	38.4	39.9	38.8	32.7	27.0
191.7	72.5°	117.1	47.2	31.2	29.7	27.8	27.4	33.5	32.3	26.2	20.9
95.5	75°	61.2	31.6	22.8	21.3	16.7	20.2	26.6	25.1	18.6	13.7
63.1	77.5°	39.9	22.4	15.6	13.7	9.5	13.3	19.8	17.5	11.0	6.8
41.5	80°	25.1	14.8	9.1	6.5	4.6	7.2	10.6	7.6	4.2	1.5
24.3	82.5°	13.3	7.6	3.4	2.3	1.9	2.3	2.7	1.9	0.8	0.0
12.5	85°	5.3	2.7	1.1	0.8	0.4	0.0	0.8	0.4	0.0	0.0
2.3	87.5°	1.9	0.4	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>
752.2
702.8
588.3
438.5
295.9
239.6
233.5
230.1
224.7
219.4
216.0
213.3
210.7
208.0
206.1
203.8
196.6
180.6
159.7
138.0
118.6
101.5
87.5
74.2
62.0
48.7
37.3
31.6
25.9
19.8
12.5
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