

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: P946949

Luminaire Tested: **GALN-SB2B-940-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946949
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-SB2B-940-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 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: 6286 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

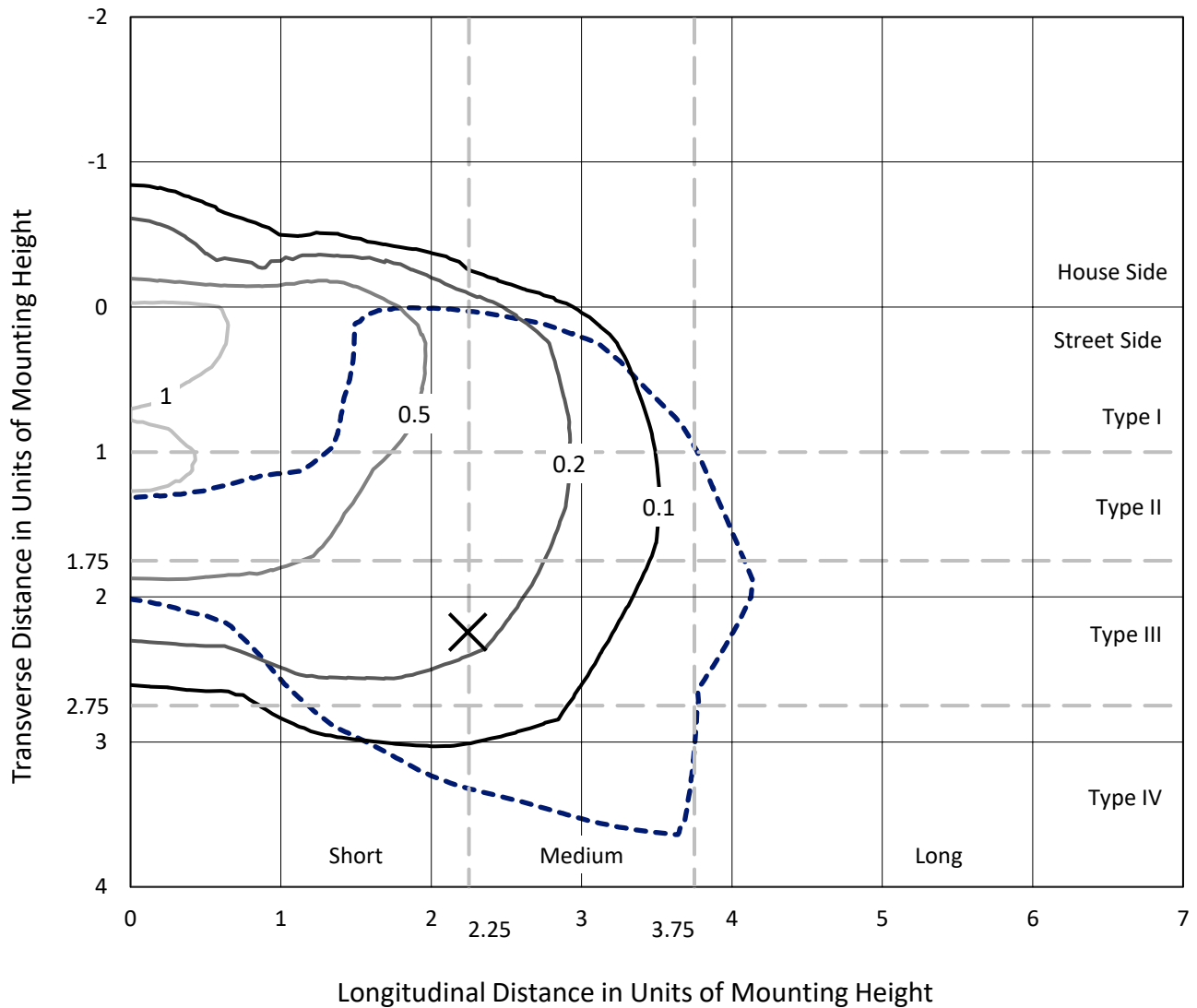
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

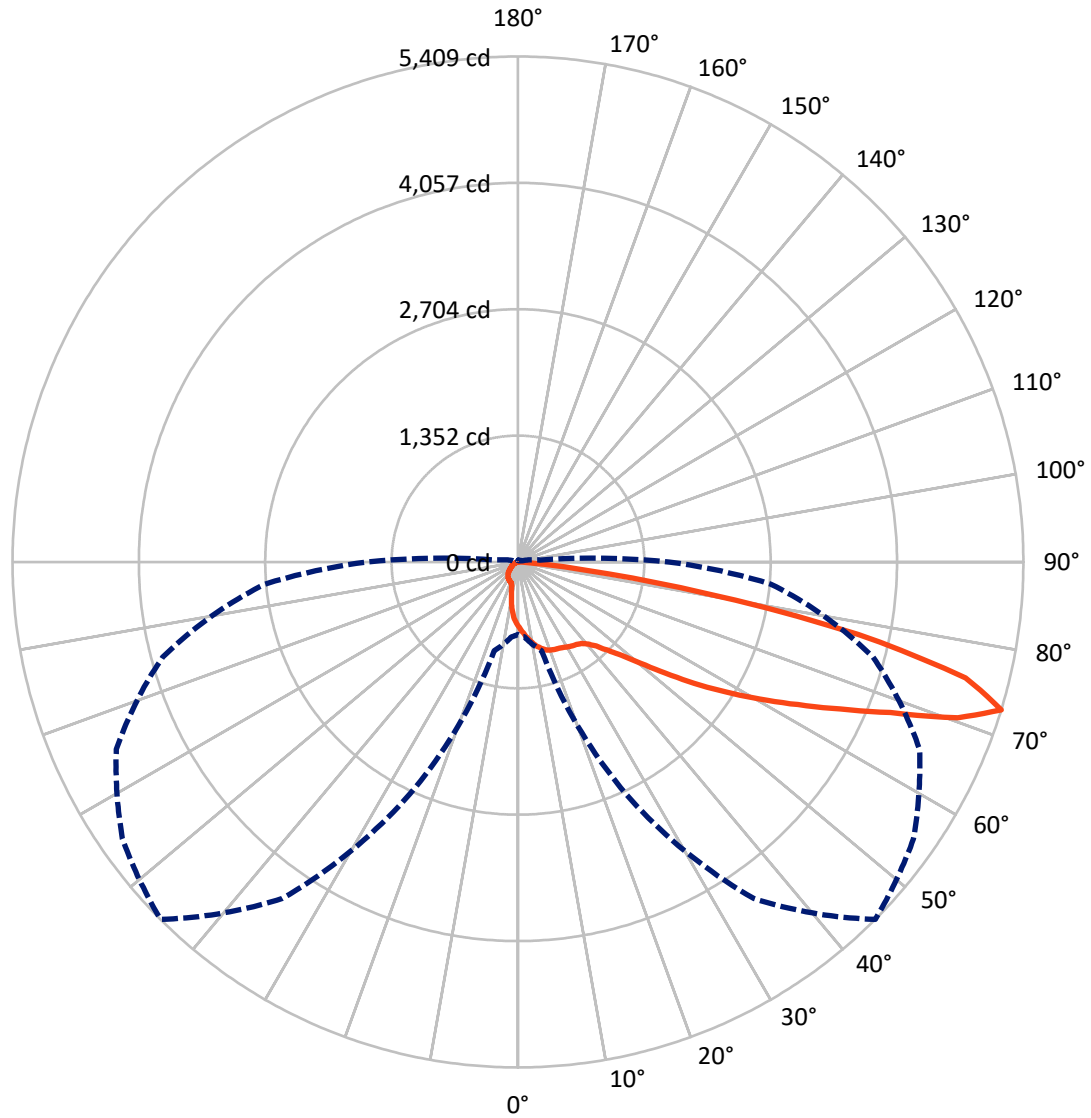
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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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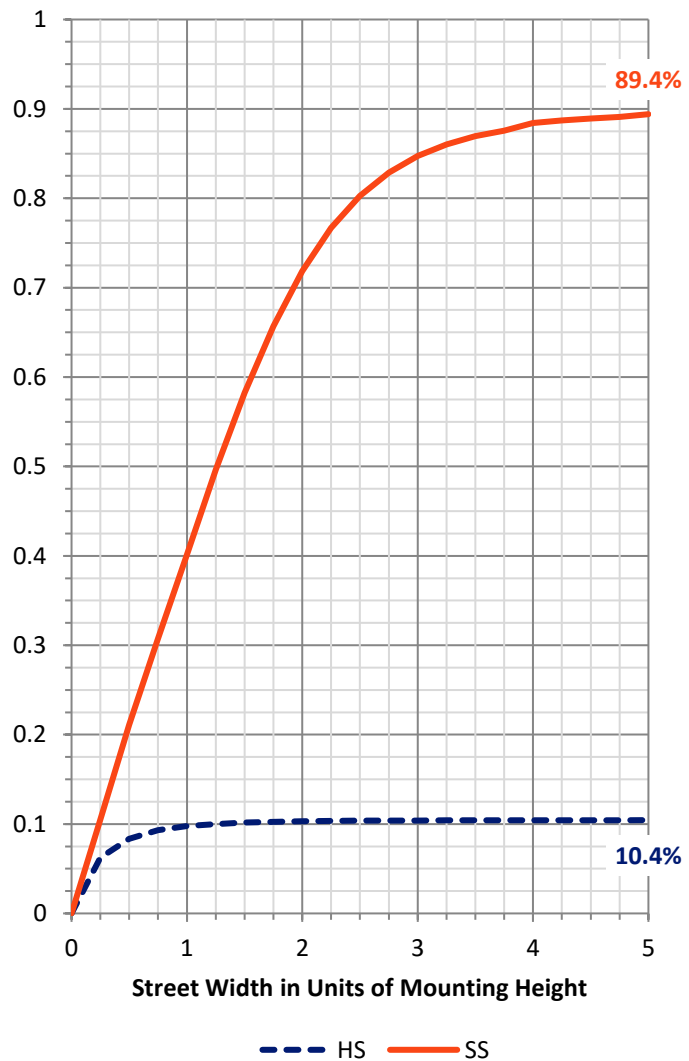
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	660.5	0.0	660.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	5625.5	0.0	5625.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	6286.0	0.0	6286.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.9	1.0
10°-20°	189.6	3.0
20°-30°	311.4	5.0
30°-40°	441.6	7.0
40°-50°	730.0	11.6
50°-60°	1311.3	20.9
60°-70°	1820.9	29.0
70°-80°	1320.8	21.0
80°-90°	95.5	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°	6286.0	100.0
0°-180°	6286.0	100.0

Coefficient of Utilization



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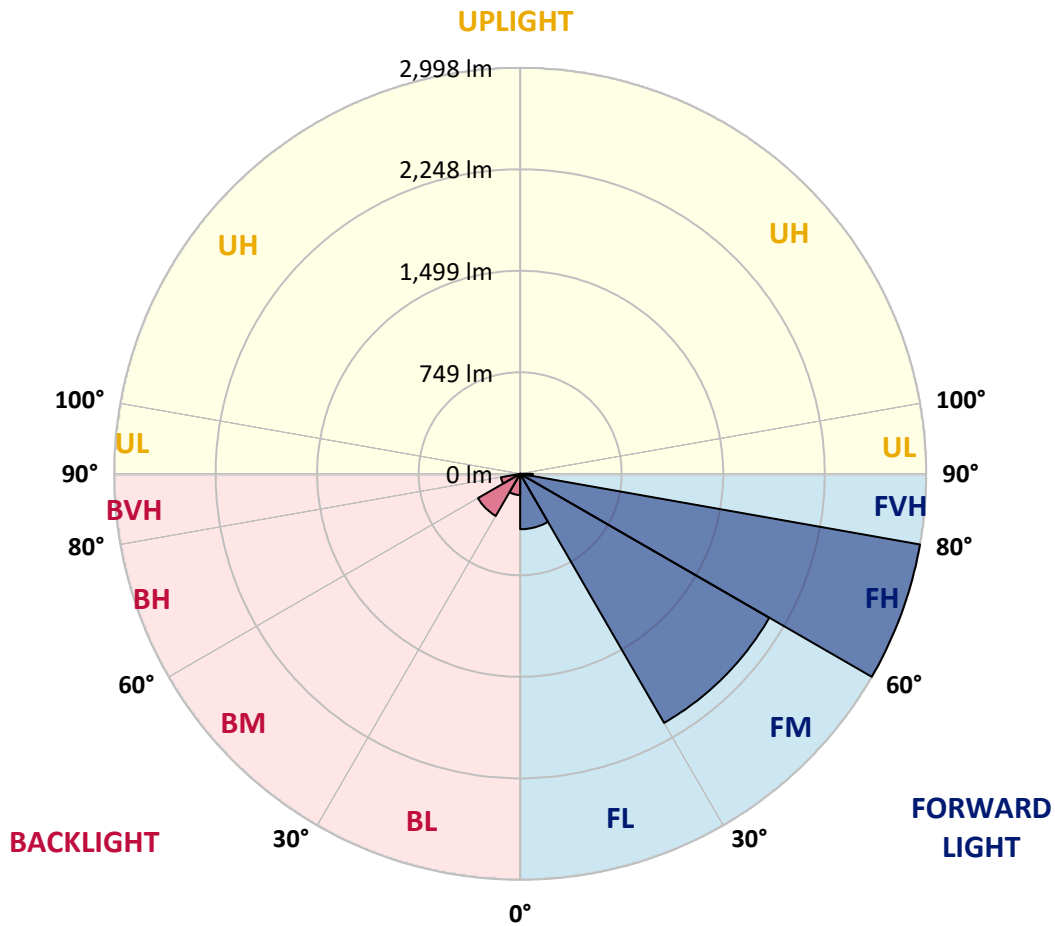
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	409.5	6.5			
FM (30°-60°)	2123.7	33.8			
FH (60°-80°)	2997.6	47.7			G2/5000
FVH (80°-90°)	94.7	1.5			G1/100
BL (0°-30°)	156.4	2.5	B1/500		
BM (30°-60°)	359.2	5.7	B1/1000		
BH (60°-80°)	144.0	2.3	B1/500		G1/500
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°	45°	46°	55°	65°	75°
0°	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6
2.5°	752.1	753.4	752.6	747.4	738.8	734.1	731.6	723.0	717.4	707.5
5°	821.2	826.4	823.4	813.1	796.8	785.2	781.8	764.2	748.3	729.8
7.5°	894.6	897.2	891.6	878.3	856.4	836.7	833.7	809.2	783.9	755.6
10°	958.1	961.1	952.5	933.2	908.3	883.9	879.6	852.5	822.5	787.8
12.5°	1011.3	1014.3	1003.1	980.0	952.5	927.2	922.9	894.6	861.6	822.9
15°	1051.6	1057.2	1042.2	1017.3	987.7	962.4	960.2	932.4	900.2	857.3
17.5°	1075.2	1080.8	1066.6	1036.6	1011.3	989.8	987.3	964.1	934.1	892.9
20°	1079.1	1084.2	1069.2	1043.0	1022.0	1004.9	1003.6	986.8	965.0	925.5
22.5°	1067.5	1073.9	1060.2	1039.2	1024.6	1015.6	1013.9	1004.4	992.0	958.5
25°	1055.5	1060.6	1050.3	1031.9	1024.2	1023.3	1024.6	1022.9	1020.3	992.0
27.5°	1054.6	1060.2	1048.6	1031.0	1026.7	1035.8	1037.0	1045.2	1047.3	1022.5
30°	1061.9	1065.8	1054.6	1036.2	1034.0	1054.6	1055.1	1069.7	1073.1	1048.2
32.5°	1077.8	1082.1	1070.9	1043.9	1040.9	1069.7	1070.9	1090.2	1095.8	1075.7
35°	1115.1	1120.3	1107.4	1065.4	1054.6	1083.8	1087.7	1110.4	1121.6	1104.8
37.5°	1208.2	1193.2	1175.6	1108.7	1086.0	1106.1	1112.6	1139.2	1158.9	1139.6
40°	1439.5	1392.3	1337.4	1182.5	1140.9	1153.7	1158.9	1185.5	1212.5	1193.7
42.5°	1786.6	1730.8	1642.4	1352.4	1223.7	1230.1	1234.0	1257.2	1295.3	1280.3
45°	2096.0	2075.8	1985.7	1642.4	1378.6	1346.8	1351.5	1363.6	1419.8	1414.2
47.5°	2333.7	2322.1	2252.6	1975.4	1640.3	1489.7	1503.0	1508.6	1589.7	1609.4
50°	2516.4	2512.2	2449.9	2271.5	1982.3	1700.4	1705.1	1693.1	1814.5	1863.4
52.5°	2688.9	2703.5	2657.6	2546.5	2347.4	1976.3	1975.4	1918.8	2082.7	2156.5
55°	2844.7	2849.8	2854.6	2827.1	2714.7	2290.3	2282.2	2189.5	2393.7	2470.1
57.5°	2991.0	2993.1	3035.2	3091.4	3097.0	2627.6	2612.6	2501.4	2733.6	2788.0
60°	3089.2	3099.1	3187.9	3344.1	3412.3	2975.5	2967.4	2854.1	3079.4	3104.7
62.5°	2947.7	3007.7	3231.7	3541.5	3710.1	3361.3	3357.4	3251.0	3443.2	3422.6
65°	2386.0	2487.7	2881.6	3674.9	4002.3	3792.1	3797.6	3684.4	3816.9	3750.0
67.5°	1669.1	1776.3	2242.3	3685.6	4328.8	4297.9	4330.1	4152.5	4213.8	4063.6
70°	1154.2	1209.5	1512.9	3454.8	4583.2	4994.7	4993.9	4727.4	4608.6	4206.5
72.5°	776.2	804.9	982.6	2740.8	4396.2	5408.8	5383.9	5166.8	4741.6	3934.1
75°	327.4	348.4	454.8	1540.3	3478.0	4948.4	4881.0	4566.1	4213.0	3097.8
77.5°	103.8	112.8	179.3	551.3	1915.8	3719.5	3648.3	2851.5	2823.7	1554.1
80°	49.3	57.5	100.8	221.4	753.9	2023.0	2013.2	1293.6	1214.7	419.6
82.5°	21.5	25.3	55.8	118.4	337.2	721.7	736.3	440.2	364.3	159.2
85°	6.9	9.0	25.7	54.5	142.4	179.3	177.2	104.7	146.7	86.7
87.5°	0.0	0.0	8.6	12.4	14.6	10.3	11.6	9.0	40.8	24.0
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°
688.6	0°	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6
697.2	2.5°	692.1	685.2	673.2	662.0	652.2	642.3	636.3	627.7	626.9	626.9
708.4	5°	696.8	685.6	664.2	641.4	615.3	590.4	565.5	541.5	533.8	528.2
726.4	7.5°	710.5	692.9	659.0	615.7	565.9	511.4	473.3	432.1	416.2	407.6
750.4	10°	730.3	706.2	654.7	578.8	498.1	423.9	369.4	324.8	307.6	300.3
776.6	12.5°	752.1	722.5	647.0	532.9	423.9	335.1	281.9	261.3	258.7	258.7
807.9	15°	778.3	742.3	633.7	478.8	346.3	265.2	246.3	247.1	249.7	251.4
838.4	17.5°	805.3	763.3	612.7	418.3	277.6	238.6	239.0	240.3	242.4	244.1
871.4	20°	834.5	784.3	584.8	354.0	238.1	230.8	232.1	233.4	235.1	236.0
902.3	22.5°	865.8	804.1	551.8	290.9	224.8	224.4	224.8	226.1	228.3	228.3
938.4	25°	899.3	825.9	514.0	245.0	218.0	218.0	218.8	219.7	221.4	221.4
973.1	27.5°	933.6	846.1	474.1	221.0	212.0	211.5	211.5	212.8	213.7	214.1
1007.4	30°	971.4	869.7	434.2	215.8	207.2	205.1	203.8	204.7	205.5	205.9
1043.5	32.5°	1010.0	892.4	398.6	218.0	202.5	198.7	194.4	193.5	193.5	195.2
1080.8	35°	1052.9	917.3	371.1	225.3	199.9	189.2	182.4	178.5	178.9	181.5
1125.4	37.5°	1104.4	947.4	351.0	231.7	198.2	178.5	167.3	162.6	159.6	162.6
1186.8	40°	1171.8	991.6	336.4	236.8	196.1	166.0	151.0	143.3	137.7	139.4
1282.0	42.5°	1270.9	1061.1	330.8	237.3	191.4	151.5	134.3	124.0	115.8	116.3
1425.3	45°	1409.9	1170.9	359.6	231.7	181.1	135.6	116.7	103.0	97.8	96.5
1639.4	47.5°	1600.4	1331.0	426.1	220.1	166.0	120.1	99.5	88.0	84.1	82.0
1920.5	50°	1855.7	1536.5	499.9	207.2	151.0	105.5	85.4	78.1	75.5	73.4
2253.9	52.5°	2151.7	1745.0	560.4	194.4	136.0	92.7	76.4	72.1	69.9	68.2
2575.7	55°	2423.3	1888.7	556.9	180.6	121.4	82.4	69.9	67.4	64.8	63.1
2852.8	57.5°	2592.4	1908.9	459.1	165.6	104.7	74.2	63.9	62.2	59.2	57.1
3092.7	60°	2670.1	1793.9	321.8	145.9	88.0	66.5	57.5	56.6	52.8	49.8
3319.7	62.5°	2684.2	1580.2	214.5	121.4	73.4	59.2	51.1	49.8	44.6	39.5
3504.2	65°	2626.7	1274.7	148.5	94.8	62.6	51.5	43.8	41.2	35.6	30.5
3547.9	67.5°	2444.8	895.0	103.4	68.2	53.2	40.8	34.8	33.9	29.6	25.3
3324.8	70°	2111.4	510.2	69.1	51.1	42.0	27.9	27.5	28.3	24.0	20.6
2716.4	72.5°	1618.9	233.4	42.9	37.3	28.7	18.9	21.9	22.3	18.4	15.4
1694.8	75°	952.9	100.0	27.0	24.0	14.6	12.4	15.9	16.3	12.4	9.9
619.6	77.5°	324.4	37.8	17.2	14.2	7.3	6.9	10.3	10.3	6.9	3.9
124.4	80°	73.8	14.2	8.6	5.6	3.4	3.0	3.4	3.0	1.7	0.4
38.2	82.5°	21.0	5.6	3.4	2.1	1.3	1.3	0.4	0.0	0.0	0.0
13.3	85°	6.0	2.6	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
4.7	87.5°	2.6	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>
688.6
629.0
530.7
408.9
300.3
258.7
251.4
244.1
236.4
229.1
221.8
214.5
206.8
196.5
182.8
161.8
138.6
114.6
94.8
80.7
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