

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: P948393

Luminaire Tested: **GALN-SB3B-950-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948393
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3B-950-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11971 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

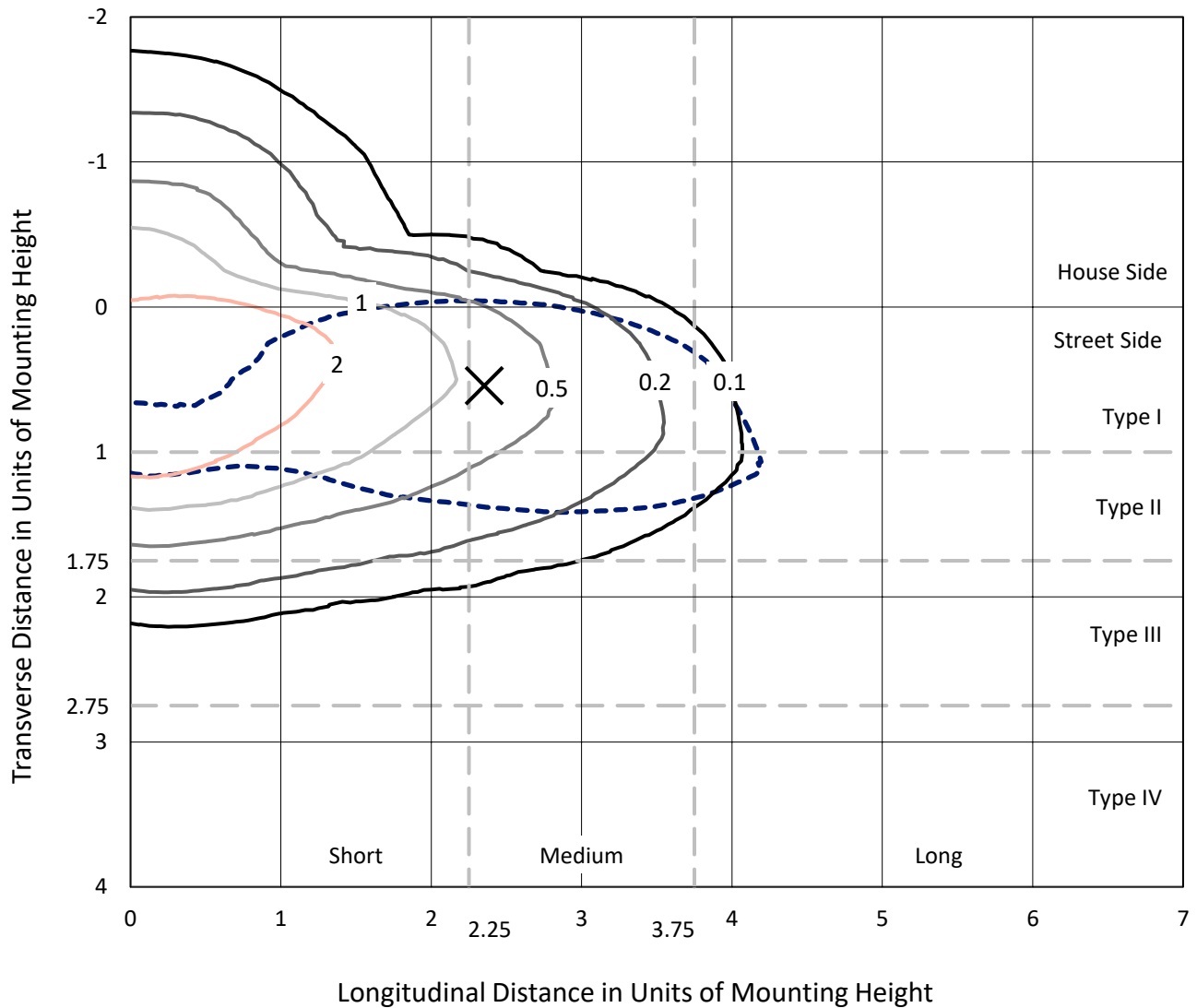
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P948393
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Iso-Footcandle Lines of Horizontal Illumination

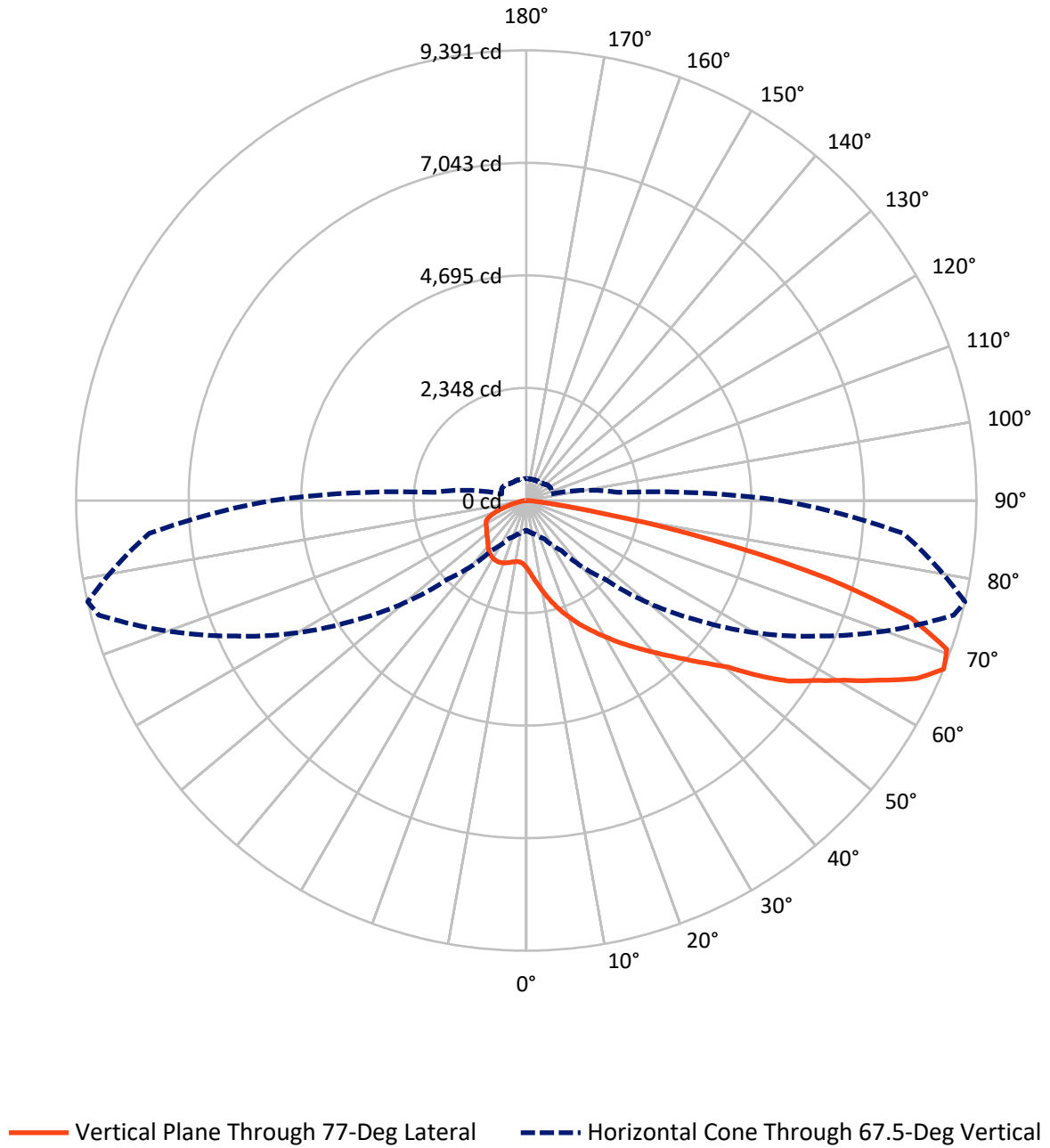
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Medium - N/A

REPORT NUMBER: P948393
CATALOG NUMBER: GALN-SB3B-950-U-T2R

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2264.4	0.0	2264.4
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	9706.6	0.0	9706.6
	% Fixture	81.1	0.0	81.1
Total	Lumens	11971.0	0.0	11971.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.6	1.3
10°-20°	540.9	4.5
20°-30°	1021.2	8.5
30°-40°	1645.2	13.7
40°-50°	2250.3	18.8
50°-60°	2538.3	21.2
60°-70°	2369.2	19.8
70°-80°	1298.7	10.8
80°-90°	156.7	1.3
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°	11971.0	100.0
0°-180°	11971.0	100.0

Coefficient of Utilization



REPORT NUMBER: P948393

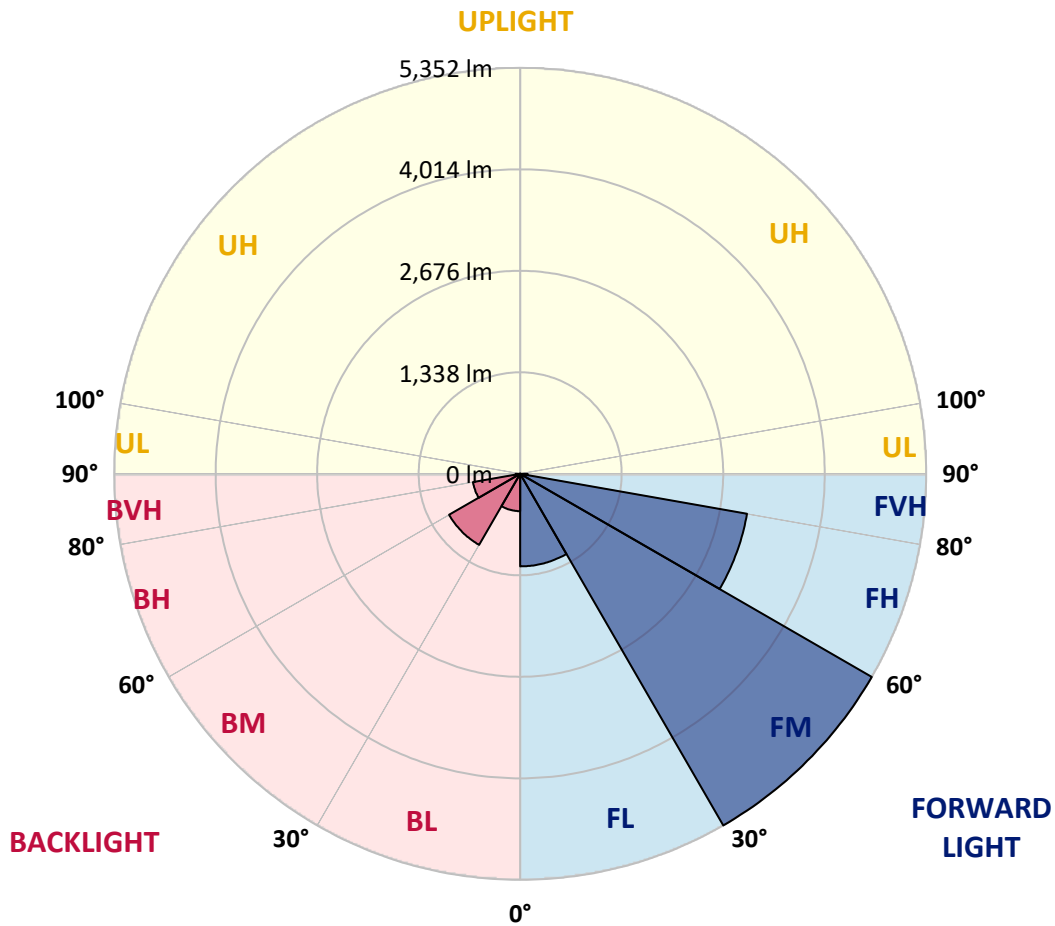
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1220.3	10.2			
FM (30°-60°)	5352.1	44.7			
FH (60°-80°)	3036.2	25.4			G2/5000
FVH (80°-90°)	98.0	0.8			G1/100
BL (0°-30°)	492.3	4.1	B1/500		
BM (30°-60°)	1081.7	9.0	B2/2500		
BH (60°-80°)	631.7	5.3	B2/1000		G2/1000
BVH (80°-90°)	58.7	0.5			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



REPORT NUMBER: P948393
 CATALOG NUMBER: GALN-SB3B-950-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1404.6	1404.6	1404.6	1404.6	1404.6	1404.6	1404.6	1404.6	1404.6	1404.6
2.5°	1758.6	1771.0	1755.6	1755.6	1703.7	1676.5	1624.6	1585.0	1513.9	1501.6
5°	2078.7	2094.2	2072.6	2063.3	2002.1	1945.9	1858.8	1772.9	1646.2	1633.2
7.5°	2326.5	2346.3	2327.1	2317.3	2262.9	2199.9	2097.9	1978.0	1799.4	1774.1
10°	2528.6	2531.7	2525.5	2529.2	2486.6	2434.7	2330.2	2190.6	1967.5	1932.9
12.5°	2642.9	2657.1	2669.5	2691.7	2684.3	2652.2	2558.3	2391.4	2145.5	2101.0
15°	2696.7	2721.4	2749.2	2800.5	2841.9	2849.9	2778.2	2607.1	2326.5	2272.8
17.5°	2715.8	2739.3	2783.2	2857.3	2946.3	3006.3	2974.1	2816.6	2505.7	2443.9
20°	2812.8	2819.6	2846.2	2916.7	3013.1	3112.5	3136.6	3018.0	2683.1	2613.3
22.5°	3020.5	3006.9	3014.3	3046.4	3115.6	3212.0	3267.0	3196.0	2865.4	2785.0
25°	3363.4	3323.9	3284.3	3247.3	3282.5	3336.9	3399.3	3373.9	3056.3	2954.4
27.5°	3796.6	3748.4	3661.3	3539.5	3496.9	3516.1	3543.9	3538.9	3233.0	3129.8
30°	4223.0	4166.7	4062.9	3886.8	3774.4	3723.7	3702.7	3688.5	3425.2	3315.2
32.5°	4563.5	4519.0	4417.0	4219.9	4056.8	3970.2	3900.4	3849.7	3626.1	3516.1
35°	4861.3	4819.9	4703.1	4488.1	4310.7	4218.7	4127.2	4019.1	3834.9	3723.7
37.5°	5133.2	5091.8	4931.8	4708.1	4529.5	4465.8	4384.3	4200.7	4044.4	3939.3
40°	5305.0	5295.7	5146.2	4892.8	4707.4	4675.9	4648.7	4411.5	4276.7	4179.1
42.5°	5348.9	5369.3	5250.6	5042.4	4865.6	4840.3	4903.9	4650.0	4537.5	4444.2
45°	5243.2	5301.9	5224.0	5082.5	4978.1	4964.5	5130.1	4910.7	4826.1	4740.8
47.5°	4975.6	5075.1	5043.0	5023.2	5008.4	5067.1	5329.1	5187.6	5153.0	5078.8
50°	4435.5	4624.0	4680.3	4805.1	4948.4	5146.8	5510.1	5489.7	5534.9	5460.1
52.5°	3501.8	3761.4	4087.7	4400.3	4764.3	5120.2	5709.1	5923.5	6113.9	6073.1
55°	2890.7	3007.5	3258.4	3831.8	4407.1	5008.4	5798.7	6273.9	6688.5	6652.1
57.5°	2421.1	2525.5	2680.0	3158.9	3867.0	4754.4	5854.3	6487.7	7082.2	7078.5
60°	1917.5	2028.1	2186.3	2525.5	3236.1	4315.7	5842.0	6731.2	7584.6	7615.5
62.5°	1349.0	1470.7	1646.2	1962.6	2591.6	3747.2	5589.9	6907.3	8175.9	8260.0
65°	886.7	967.1	1099.3	1372.4	1931.1	3016.1	5108.5	6930.2	8808.7	8950.8
67.5°	621.6	652.5	730.4	878.7	1272.9	2312.9	4341.6	6693.5	9230.7	9390.8
70°	485.1	500.5	540.1	599.4	799.6	1555.3	3327.0	6078.0	9140.5	9307.4
72.5°	419.0	433.8	448.6	456.0	536.4	960.3	2253.6	5081.9	8290.9	8403.9
75°	380.0	383.7	396.1	393.6	409.1	622.9	1300.8	3702.7	6541.5	6502.5
77.5°	319.5	324.4	344.8	341.7	363.3	425.8	675.4	2389.6	4240.9	3976.4
80°	270.7	273.1	295.4	291.7	315.8	308.4	344.8	1218.0	1798.8	1523.8
82.5°	93.9	116.2	225.5	232.3	241.0	186.6	199.0	496.8	549.3	420.8
85°	45.7	48.8	114.9	163.1	162.5	93.9	97.0	177.3	173.0	135.9
87.5°	7.4	9.3	13.6	63.6	50.7	24.7	33.4	34.6	35.8	30.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P948393
 CATALOG NUMBER: GALN-SB3B-950-U-T2R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1404.6	0°	1404.6	1404.6	1404.6	1404.6	1404.6	1404.6	1404.6	1404.6	1404.6	1404.6
1454.6	2.5°	1420.0	1389.1	1324.2	1264.3	1217.3	1172.2	1146.9	1125.3	1112.9	1110.4
1522.6	5°	1458.3	1394.7	1276.7	1177.2	1112.3	1064.1	1038.8	1022.7	1014.7	1009.7
1614.1	7.5°	1513.3	1420.0	1251.9	1138.9	1070.9	1036.3	1023.3	1020.8	1020.2	1020.8
1724.7	10°	1589.3	1461.4	1249.5	1129.6	1072.7	1053.6	1053.0	1053.6	1056.1	1056.7
1845.2	12.5°	1671.5	1504.1	1259.4	1137.6	1096.2	1085.7	1083.9	1083.2	1085.1	1086.3
1966.9	15°	1761.1	1560.3	1276.0	1154.9	1122.2	1111.1	1109.2	1105.5	1104.9	1104.3
2094.8	17.5°	1853.2	1615.9	1294.6	1173.5	1138.9	1123.4	1116.6	1108.0	1101.2	1099.3
2227.0	20°	1946.5	1670.9	1307.6	1182.7	1140.1	1118.5	1104.9	1090.0	1078.3	1071.5
2360.5	22.5°	2046.0	1728.4	1315.6	1180.3	1129.0	1099.3	1074.6	1057.3	1039.4	1027.6
2495.2	25°	2143.0	1778.4	1315.0	1167.3	1107.3	1069.6	1038.1	1015.9	991.2	978.8
2634.3	27.5°	2236.3	1823.5	1299.5	1144.4	1076.4	1034.4	996.7	970.2	946.1	934.3
2774.5	30°	2332.7	1861.2	1275.4	1111.1	1040.0	993.6	952.2	929.4	907.7	896.6
2922.8	32.5°	2428.5	1895.8	1241.4	1069.6	998.0	953.5	912.7	891.7	878.7	878.7
3082.3	35°	2529.8	1919.9	1196.3	1021.4	953.5	910.8	878.7	866.3	865.1	857.7
3251.0	37.5°	2636.7	1935.4	1141.3	972.0	909.6	869.4	859.6	844.7	832.4	816.3
3436.3	40°	2749.2	1950.8	1075.2	920.7	863.3	841.0	836.7	816.9	781.7	742.1
3646.4	42.5°	2885.8	1961.3	1006.6	869.4	814.4	807.0	813.2	779.2	723.0	693.3
3899.8	45°	3044.0	1978.6	943.6	818.8	764.4	764.4	790.3	745.8	699.5	681.0
4189.0	47.5°	3249.1	2018.8	884.9	763.2	718.0	730.4	739.7	705.7	679.7	656.9
4541.2	50°	3545.7	2115.2	824.3	706.9	682.8	707.5	694.6	674.8	644.5	626.0
5101.1	52.5°	3914.0	2172.0	770.6	656.2	652.5	677.3	658.7	640.2	617.3	592.6
5525.6	55°	4164.9	2182.6	725.5	619.2	632.1	629.7	622.9	606.2	593.8	561.1
5944.6	57.5°	4445.4	2203.6	688.4	596.9	619.2	592.0	589.5	575.3	559.2	537.0
6455.6	60°	4781.0	2236.3	656.2	588.3	608.0	567.3	554.9	549.3	533.3	522.2
7070.4	62.5°	5146.8	2266.0	623.5	589.5	595.1	543.2	524.6	522.8	512.9	509.2
7647.6	65°	5396.4	2185.0	582.7	588.3	574.7	518.4	495.0	494.3	486.3	485.1
7897.8	67.5°	5309.3	1928.6	527.7	571.0	553.7	493.7	467.8	465.3	454.8	455.4
7636.5	70°	4873.0	1562.8	451.7	528.3	527.7	471.5	439.4	431.3	417.1	419.6
6639.7	72.5°	4054.9	1158.0	349.8	457.3	486.3	451.1	406.6	393.6	375.7	378.2
4901.5	75°	2928.4	787.3	254.6	347.9	423.3	427.0	374.5	352.2	330.6	334.3
2728.2	77.5°	1498.5	446.2	187.2	239.8	332.4	388.1	345.4	315.8	310.8	345.4
786.6	80°	488.8	223.7	129.8	168.1	218.1	317.6	302.8	268.8	267.6	275.6
165.0	82.5°	145.8	94.5	83.4	110.6	120.5	243.5	261.4	203.3	174.9	184.1
55.0	85°	50.1	45.7	47.6	55.0	57.5	142.7	182.9	134.7	127.3	140.3
12.4	87.5°	11.7	16.1	13.6	12.4	12.4	34.6	71.1	56.2	77.9	51.9
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>
1404.6
1110.4
1009.1
1022.7
1057.3
1087.0
1103.6
1101.2
1074.0
1028.2
978.8
933.7
896.0
879.3
855.8
813.8
736.6
693.9
684.1
656.2
624.1
587.7
561.7
529.6
525.2
509.2
484.5
455.4
422.1
377.6
335.5
340.5
236.7
190.3
138.4
50.1
0.0

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