

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: P946944

Luminaire Tested: **GALN-SB2B-940-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946944  
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-SB2B-940-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

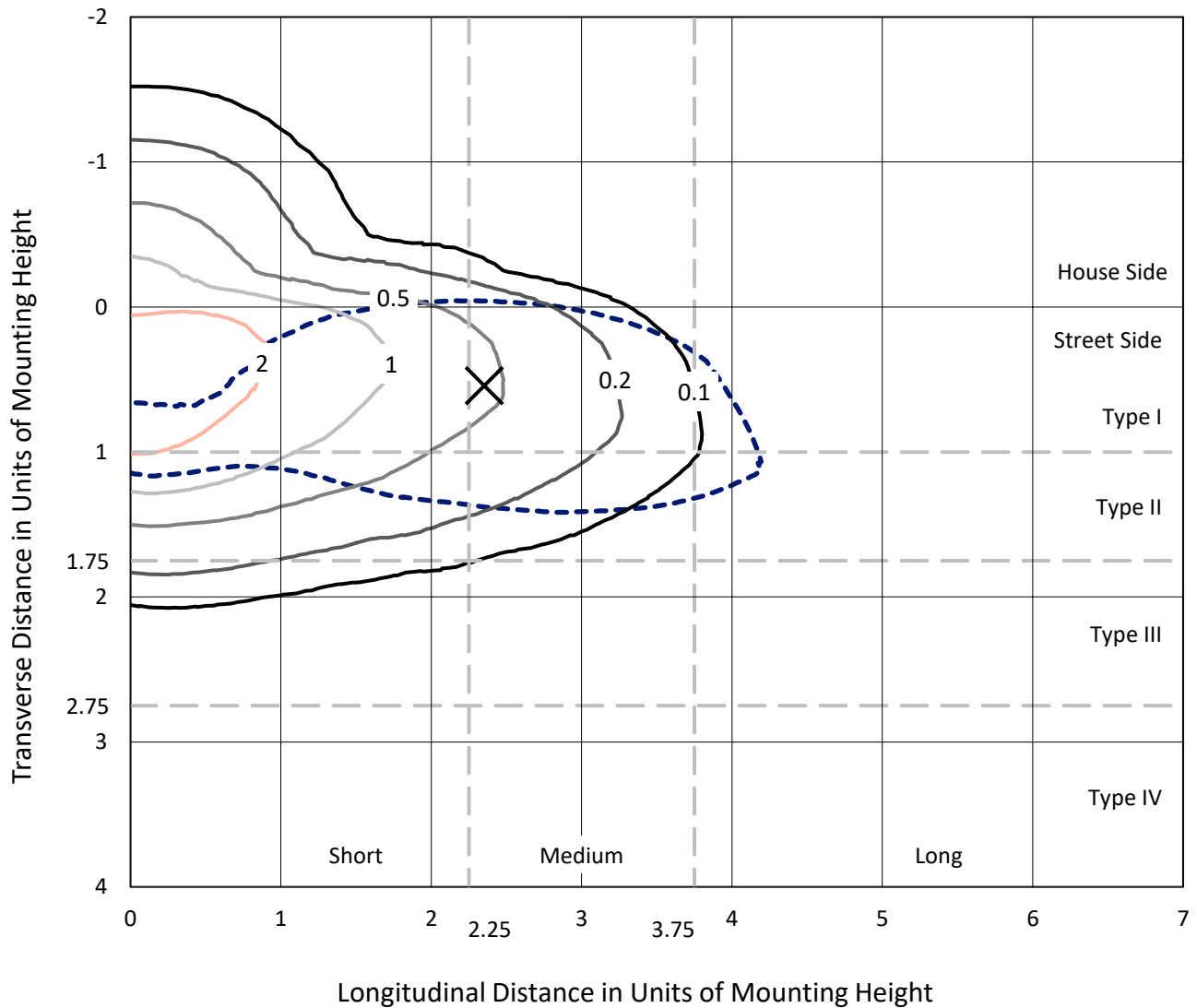
Lumens per Lamp: N/A  
Luminaire Lumens: 8312 lumens  
Efficiency: N/A  
Efficacy: 112.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

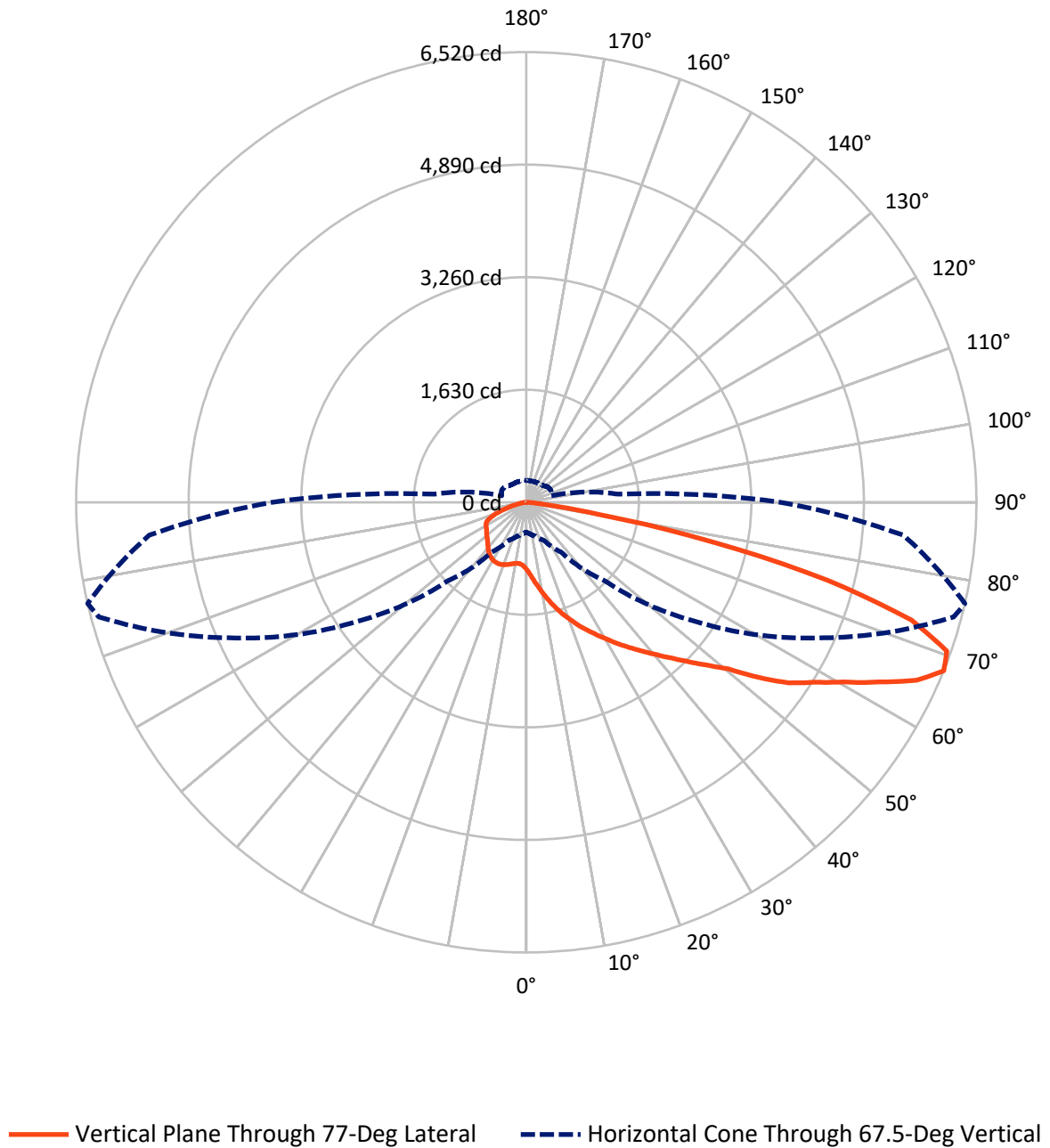
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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	1572.3	0.0	1572.3
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	6739.7	0.0	6739.7
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	8312.0	0.0	8312.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.5	1.3
10°-20°	375.6	4.5
20°-30°	709.1	8.5
30°-40°	1142.3	13.7
40°-50°	1562.5	18.8
50°-60°	1762.5	21.2
60°-70°	1645.0	19.8
70°-80°	901.8	10.8
80°-90°	108.8	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°	8312.0	100.0
0°-180°	8312.0	100.0

**Coefficient of Utilization**



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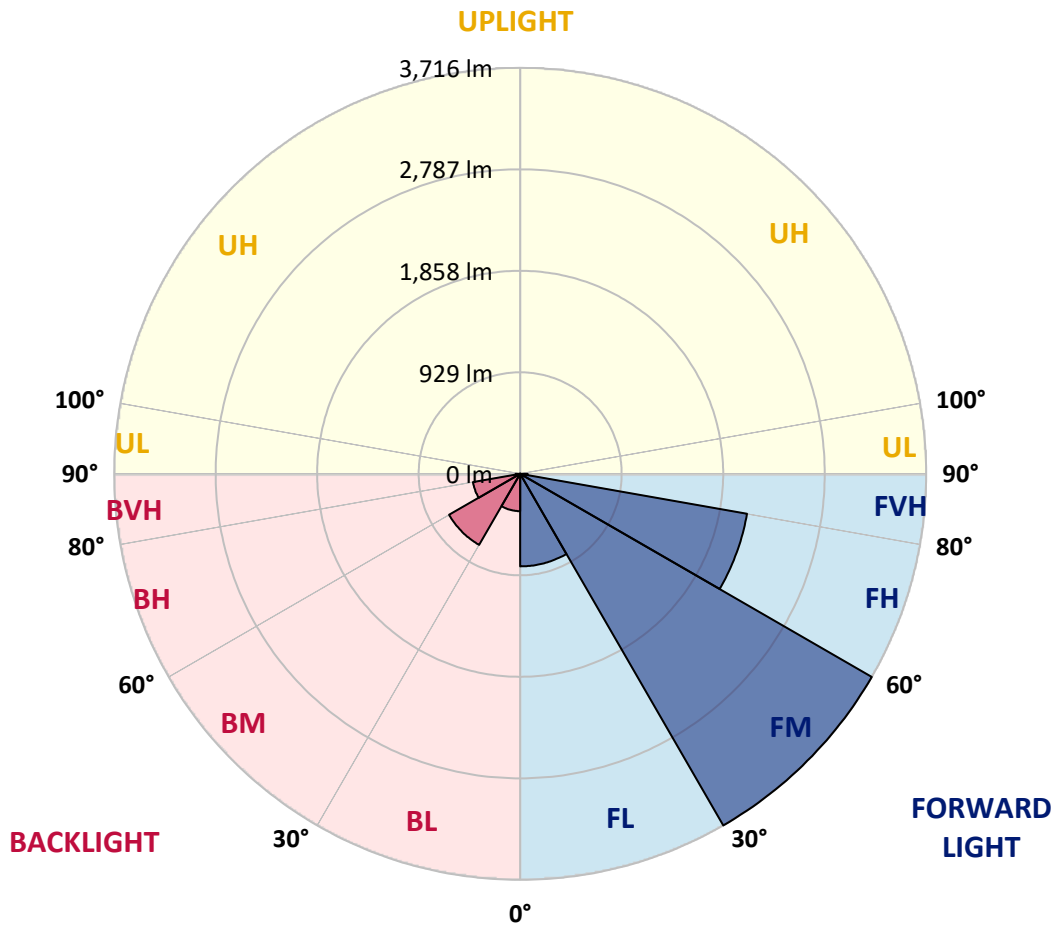
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	847.3	10.2			
FM (30°-60°)	3716.2	44.7			
FH (60°-80°)	2108.2	25.4			G2/5000
FVH (80°-90°)	68.0	0.8			G1/100
BL (0°-30°)	341.9	4.1	B1/500		
BM (30°-60°)	751.0	9.0	B1/1000		
BH (60°-80°)	438.6	5.3	B1/500		G1/500
BVH (80°-90°)	40.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	975.3	975.3	975.3	975.3	975.3	975.3	975.3	975.3	975.3	975.3
2.5°	1221.1	1229.7	1219.0	1219.0	1182.9	1164.0	1128.0	1100.5	1051.2	1042.6
5°	1443.4	1454.1	1439.1	1432.6	1390.2	1351.1	1290.6	1231.0	1143.0	1134.0
7.5°	1615.4	1629.1	1615.8	1609.0	1571.2	1527.5	1456.7	1373.4	1249.4	1231.8
10°	1755.7	1757.9	1753.6	1756.1	1726.5	1690.5	1618.0	1521.0	1366.1	1342.1
12.5°	1835.1	1845.0	1853.5	1869.0	1863.8	1841.5	1776.3	1660.5	1489.7	1458.8
15°	1872.4	1889.6	1908.9	1944.5	1973.3	1978.8	1929.1	1810.2	1615.4	1578.1
17.5°	1885.7	1902.0	1932.5	1984.0	2045.8	2087.4	2065.1	1955.7	1739.8	1696.9
20°	1953.1	1957.8	1976.3	2025.2	2092.1	2161.2	2177.9	2095.5	1863.0	1814.5
22.5°	2097.3	2087.8	2093.0	2115.3	2163.3	2230.3	2268.4	2219.1	1989.6	1933.8
25°	2335.4	2307.9	2280.5	2254.7	2279.2	2316.9	2360.3	2342.7	2122.1	2051.3
27.5°	2636.2	2602.7	2542.2	2457.7	2428.1	2441.4	2460.7	2457.2	2244.8	2173.2
30°	2932.2	2893.2	2821.1	2698.8	2620.7	2585.5	2570.9	2561.1	2378.3	2301.9
32.5°	3168.6	3137.7	3066.9	2930.1	2816.8	2756.7	2708.2	2673.1	2517.7	2441.4
35°	3375.4	3346.7	3265.6	3116.3	2993.1	2929.2	2865.7	2790.6	2662.8	2585.5
37.5°	3564.2	3535.5	3424.3	3269.0	3145.0	3100.8	3044.2	2916.8	2808.2	2735.3
40°	3683.5	3677.1	3573.2	3397.3	3268.6	3246.7	3227.8	3063.1	2969.5	2901.7
42.5°	3714.0	3728.1	3645.7	3501.1	3378.4	3360.8	3405.0	3228.7	3150.6	3085.8
45°	3640.6	3681.3	3627.3	3529.0	3456.5	3447.1	3562.1	3409.7	3351.0	3291.8
47.5°	3454.8	3523.9	3501.6	3487.8	3477.5	3518.3	3700.2	3602.0	3577.9	3526.5
50°	3079.8	3210.7	3249.7	3336.4	3435.9	3573.6	3825.9	3811.8	3843.1	3791.2
52.5°	2431.5	2611.7	2838.2	3055.3	3308.1	3555.2	3964.1	4113.0	4245.1	4216.8
55°	2007.1	2088.2	2262.4	2660.6	3060.1	3477.5	4026.3	4356.3	4644.2	4618.8
57.5°	1681.1	1753.6	1860.8	2193.4	2685.1	3301.2	4064.9	4504.7	4917.5	4914.9
60°	1331.4	1408.2	1518.0	1753.6	2247.0	2996.6	4056.3	4673.8	5266.3	5287.7
62.5°	936.6	1021.2	1143.0	1362.7	1799.5	2601.8	3881.3	4796.0	5676.9	5735.3
65°	615.7	671.5	763.3	952.9	1340.8	2094.2	3547.0	4811.9	6116.3	6214.9
67.5°	431.6	453.1	507.2	610.1	883.9	1606.0	3014.6	4647.6	6409.3	6520.4
70°	336.8	347.5	375.0	416.2	555.2	1079.9	2310.1	4220.2	6346.7	6462.5
72.5°	290.9	301.2	311.5	316.6	372.4	666.8	1564.8	3528.6	5756.7	5835.2
75°	263.9	266.4	275.0	273.3	284.0	432.5	903.2	2570.9	4542.0	4515.0
77.5°	221.8	225.3	239.4	237.3	252.3	295.6	469.0	1659.2	2944.6	2761.0
80°	187.9	189.6	205.1	202.5	219.3	214.1	239.4	845.7	1249.0	1058.1
82.5°	65.2	80.7	156.6	161.3	167.3	129.6	138.2	345.0	381.4	292.2
85°	31.8	33.9	79.8	113.3	112.8	65.2	67.4	123.1	120.1	94.4
87.5°	5.1	6.4	9.4	44.2	35.2	17.2	23.2	24.0	24.9	21.5
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°
975.3	0°	975.3	975.3	975.3	975.3	975.3	975.3	975.3	975.3	975.3	975.3
1010.0	2.5°	986.0	964.5	919.5	877.9	845.3	813.9	796.3	781.3	772.7	771.0
1057.2	5°	1012.6	968.4	886.4	817.4	772.3	738.8	721.3	710.1	704.5	701.1
1120.7	7.5°	1050.8	986.0	869.3	790.8	743.6	719.5	710.5	708.8	708.4	708.8
1197.5	10°	1103.5	1014.7	867.6	784.3	744.9	731.5	731.1	731.5	733.3	733.7
1281.2	12.5°	1160.6	1044.3	874.4	789.9	761.2	753.9	752.6	752.1	753.4	754.3
1365.7	15°	1222.8	1083.4	886.0	801.9	779.2	771.5	770.2	767.6	767.2	766.7
1454.5	17.5°	1286.8	1122.0	898.9	814.8	790.8	780.0	775.3	769.3	764.6	763.3
1546.3	20°	1351.5	1160.2	907.9	821.2	791.6	776.6	767.2	756.9	748.7	744.0
1639.0	22.5°	1420.6	1200.1	913.5	819.5	783.9	763.3	746.1	734.1	721.7	713.5
1732.5	25°	1488.0	1234.8	913.0	810.5	768.9	742.7	720.8	705.4	688.2	679.6
1829.1	27.5°	1552.8	1266.2	902.3	794.6	747.4	718.2	692.1	673.6	656.9	648.7
1926.5	30°	1619.7	1292.3	885.6	771.5	722.1	689.9	661.2	645.3	630.3	622.6
2029.5	32.5°	1686.2	1316.4	862.0	742.7	692.9	662.0	633.7	619.1	610.1	610.1
2140.2	35°	1756.6	1333.1	830.7	709.2	662.0	632.4	610.1	601.5	600.7	595.5
2257.3	37.5°	1830.8	1343.8	792.5	674.9	631.6	603.7	596.8	586.5	577.9	566.8
2386.0	40°	1908.9	1354.5	746.6	639.3	599.4	584.0	580.9	567.2	542.8	515.3
2531.9	42.5°	2003.7	1361.8	698.9	603.7	565.5	560.4	564.6	541.0	502.0	481.4
2707.8	45°	2113.6	1373.9	655.2	568.5	530.7	530.7	548.8	517.9	485.7	472.8
2908.6	47.5°	2256.0	1401.7	614.4	529.9	498.6	507.2	513.6	490.0	472.0	456.1
3153.2	50°	2462.0	1468.7	572.4	490.8	474.1	491.3	482.3	468.5	447.5	434.6
3541.9	52.5°	2717.7	1508.1	535.0	455.7	453.1	470.3	457.4	444.5	428.6	411.5
3836.7	55°	2891.9	1515.4	503.7	429.9	438.9	437.2	432.5	420.9	412.3	389.6
4127.6	57.5°	3086.7	1530.0	478.0	414.5	429.9	411.0	409.3	399.5	388.3	372.9
4482.4	60°	3319.6	1552.8	455.7	408.5	422.2	393.9	385.3	381.4	370.3	362.6
4909.3	62.5°	3573.6	1573.4	432.9	409.3	413.2	377.1	364.3	363.0	356.1	353.5
5310.1	65°	3747.0	1517.2	404.6	408.5	399.0	360.0	343.7	343.2	337.7	336.8
5483.8	67.5°	3686.5	1339.1	366.4	396.5	384.4	342.8	324.8	323.1	315.8	316.2
5302.3	70°	3383.6	1085.1	313.6	366.8	366.4	327.4	305.1	299.5	289.6	291.3
4610.3	72.5°	2815.5	804.1	242.8	317.5	337.7	313.2	282.3	273.3	260.9	262.6
3403.3	75°	2033.3	546.6	176.8	241.6	293.9	296.5	260.0	244.6	229.5	232.1
1894.3	77.5°	1040.5	309.8	130.0	166.5	230.8	269.5	239.8	219.3	215.8	239.8
546.2	80°	339.4	155.3	90.1	116.7	151.5	220.5	210.2	186.6	185.8	191.4
114.6	82.5°	101.3	65.6	57.9	76.8	83.7	169.1	181.5	141.2	121.4	127.9
38.2	85°	34.8	31.8	33.0	38.2	39.9	99.1	127.0	93.5	88.4	97.4
8.6	87.5°	8.2	11.2	9.4	8.6	8.6	24.0	49.3	39.0	54.1	36.0
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>
975.3
771.0
700.7
710.1
734.1
754.7
766.3
764.6
745.7
714.0
679.6
648.3
622.1
610.6
594.2
565.1
511.4
481.8
475.0
455.7
433.4
408.0
390.0
367.7
364.7
353.5
336.4
316.2
293.0
262.2
233.0
236.4
164.3
132.2
96.1
34.8
0.0

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