

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: P946230

Luminaire Tested: **GALN-SB1D-940-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946230
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-SB1D-940-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7513 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

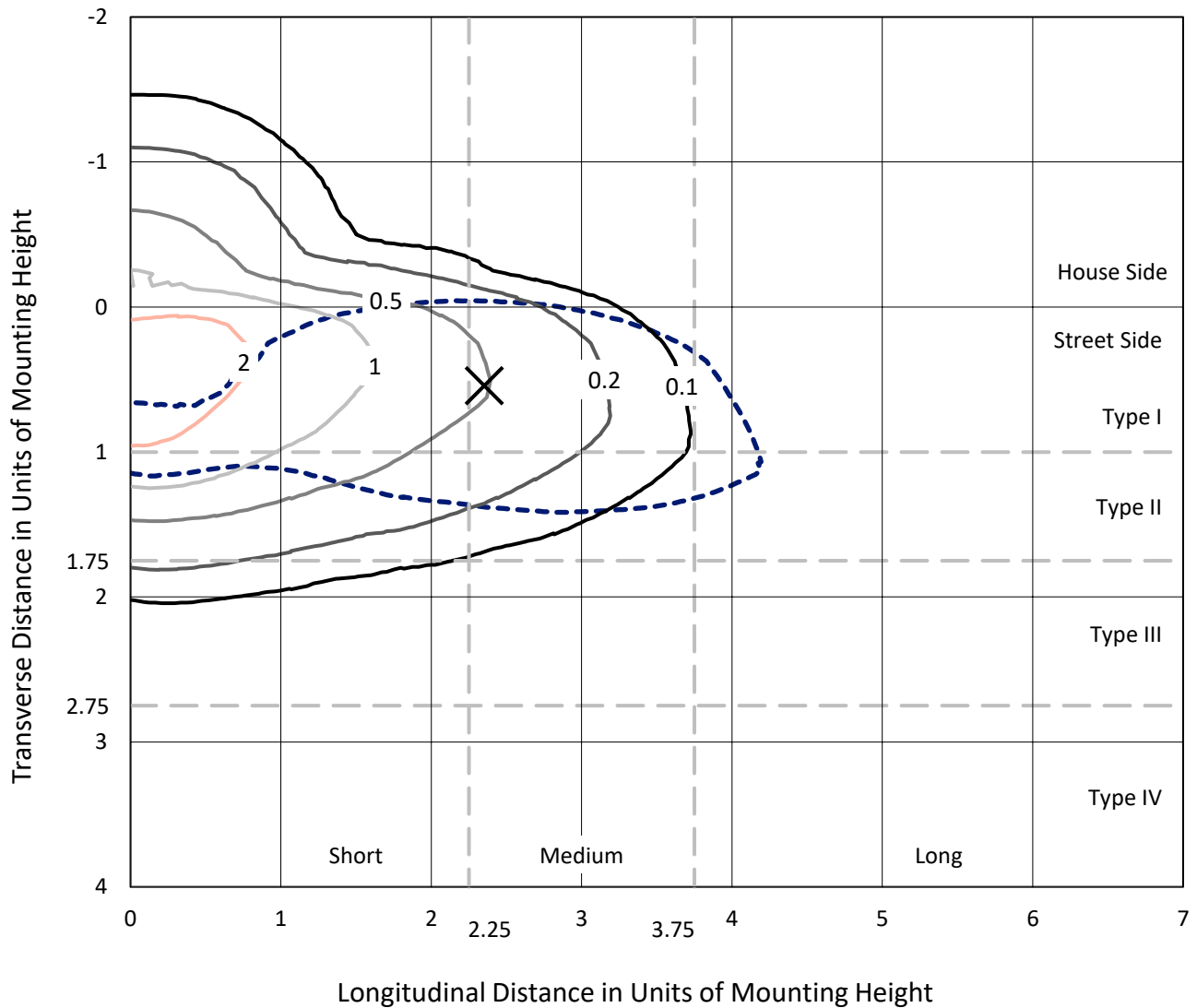
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

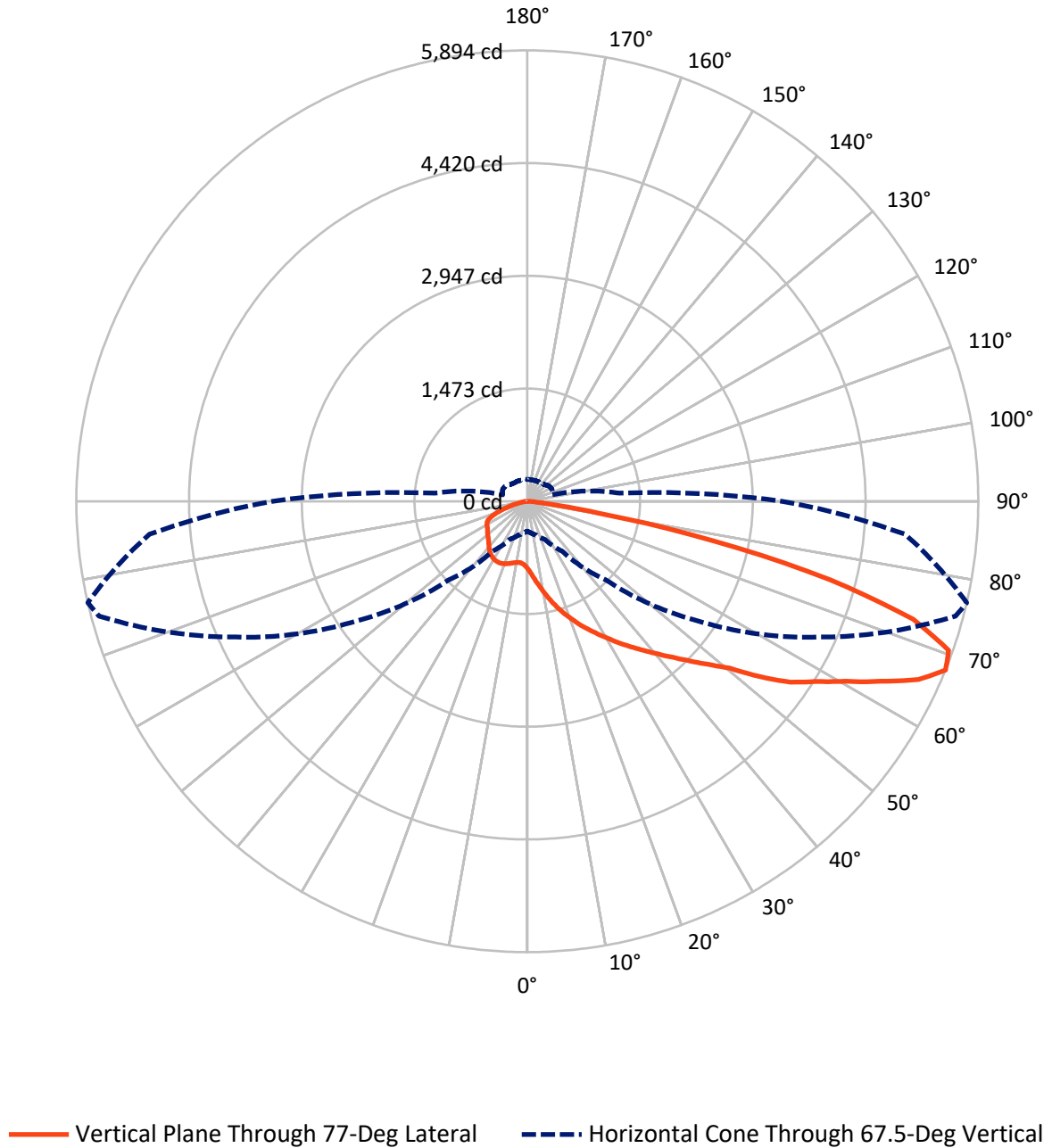
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1421.2	0.0	1421.2
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	6091.8	0.0	6091.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	7513.0	0.0	7513.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	1.3
10°-20°	339.4	4.5
20°-30°	640.9	8.5
30°-40°	1032.5	13.7
40°-50°	1412.3	18.8
50°-60°	1593.1	21.2
60°-70°	1486.9	19.8
70°-80°	815.1	10.8
80°-90°	98.3	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°	7513.0	100.0
0°-180°	7513.0	100.0

Coefficient of Utilization



REPORT NUMBER: P946230

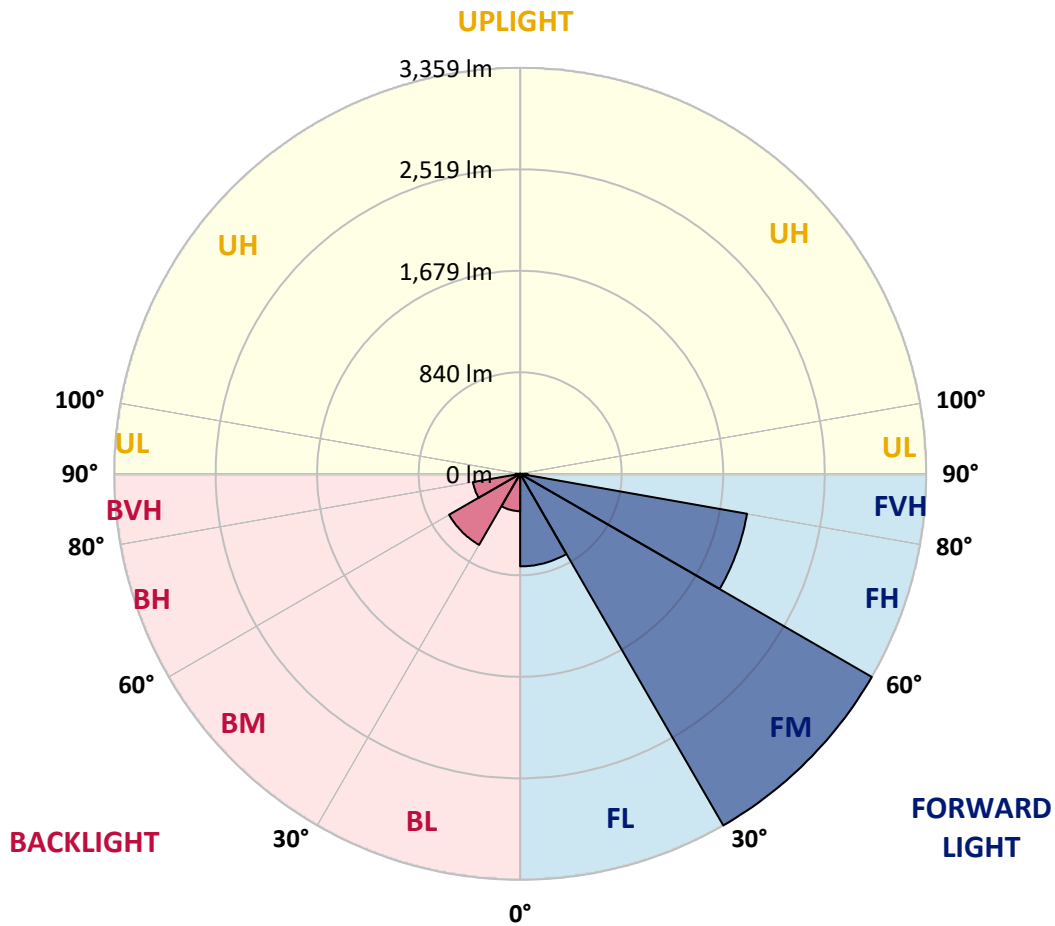
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	765.9	10.2			
FM (30°-60°)	3359.0	44.7			
FH (60°-80°)	1905.5	25.4			G2/5000
FVH (80°-90°)	61.5	0.8			G1/100
BL (0°-30°)	309.0	4.1	B1/500		
BM (30°-60°)	678.8	9.0	B1/1000		
BH (60°-80°)	396.5	5.3	B1/500		G1/500
BVH (80°-90°)	36.8	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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 CATALOG NUMBER: GALN-SB1D-940-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5
2.5°	1103.7	1111.5	1101.8	1101.8	1069.2	1052.1	1019.6	994.8	950.2	942.4
5°	1304.6	1314.3	1300.7	1294.9	1256.5	1221.2	1166.6	1112.6	1033.1	1025.0
7.5°	1460.1	1472.5	1460.5	1454.3	1420.2	1380.6	1316.6	1241.4	1129.3	1113.4
10°	1586.9	1588.9	1585.0	1587.3	1560.6	1528.0	1462.5	1374.8	1234.8	1213.1
12.5°	1658.7	1667.6	1675.4	1689.3	1684.7	1664.5	1605.6	1500.9	1346.5	1318.6
15°	1692.4	1707.9	1725.4	1757.6	1783.6	1788.6	1743.6	1636.2	1460.1	1426.4
17.5°	1704.5	1719.2	1746.7	1793.3	1849.1	1886.7	1866.6	1767.7	1572.6	1533.8
20°	1765.3	1769.6	1786.3	1830.5	1891.0	1953.4	1968.6	1894.1	1683.9	1640.1
22.5°	1895.7	1887.1	1891.8	1911.9	1955.4	2015.9	2050.4	2005.8	1798.3	1747.9
25°	2110.9	2086.1	2061.2	2038.0	2060.1	2094.2	2133.4	2117.5	1918.1	1854.2
27.5°	2382.7	2352.5	2297.8	2221.4	2194.7	2206.7	2224.1	2221.0	2029.1	1964.3
30°	2650.3	2615.1	2549.9	2439.4	2368.8	2337.0	2323.8	2314.9	2149.7	2080.6
32.5°	2864.0	2836.1	2772.1	2648.4	2546.0	2491.7	2447.9	2416.1	2275.7	2206.7
35°	3051.0	3025.0	2951.7	2816.7	2705.4	2647.6	2590.2	2522.4	2406.8	2337.0
37.5°	3221.6	3195.6	3095.2	2954.8	2842.7	2802.8	2751.6	2636.4	2538.3	2472.3
40°	3329.4	3323.6	3229.7	3070.7	2954.4	2934.6	2917.5	2768.6	2684.1	2622.8
42.5°	3356.9	3369.7	3295.3	3164.6	3053.7	3037.8	3077.7	2918.3	2847.7	2789.2
45°	3290.6	3327.5	3278.6	3189.8	3124.3	3115.7	3219.7	3082.0	3028.9	2975.3
47.5°	3122.7	3185.1	3165.0	3152.6	3143.3	3180.1	3344.5	3255.7	3234.0	3187.5
50°	2783.8	2902.0	2937.3	3015.7	3105.6	3230.1	3458.2	3445.4	3473.7	3426.8
52.5°	2197.8	2360.6	2565.4	2761.6	2990.1	3213.5	3583.0	3717.6	3837.1	3811.5
55°	1814.2	1887.5	2045.0	2404.9	2765.9	3143.3	3639.3	3937.5	4197.7	4174.9
57.5°	1519.5	1585.0	1682.0	1982.5	2427.0	2983.9	3674.2	4071.7	4444.8	4442.4
60°	1203.4	1272.8	1372.1	1585.0	2031.0	2708.5	3666.4	4224.5	4760.1	4779.5
62.5°	846.6	923.0	1033.1	1231.7	1626.5	2351.7	3508.2	4335.0	5131.2	5184.0
65°	556.5	606.9	689.9	861.3	1211.9	1892.9	3206.1	4349.4	5528.3	5617.5
67.5°	390.1	409.5	458.4	551.5	798.9	1451.6	2724.8	4200.8	5793.2	5893.7
70°	304.4	314.1	339.0	376.2	501.8	976.1	2088.0	3814.6	5736.6	5841.3
72.5°	262.9	272.2	281.6	286.2	336.6	602.7	1414.4	3189.4	5203.3	5274.3
75°	238.5	240.8	248.6	247.0	256.7	390.9	816.4	2323.8	4105.4	4081.0
77.5°	200.5	203.6	216.4	214.5	228.0	267.2	423.9	1499.7	2661.6	2495.6
80°	169.9	171.4	185.4	183.0	198.2	193.5	216.4	764.4	1128.9	956.4
82.5°	58.9	72.9	141.6	145.8	151.2	117.1	124.9	311.8	344.8	264.1
85°	28.7	30.6	72.1	102.4	102.0	58.9	60.9	111.3	108.6	85.3
87.5°	4.7	5.8	8.5	39.9	31.8	15.5	20.9	21.7	22.5	19.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P946230
 CATALOG NUMBER: GALN-SB1D-940-U-T2R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
881.5	0°	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5
912.9	2.5°	891.2	871.8	831.1	793.5	764.0	735.7	719.8	706.2	698.5	696.9
955.6	5°	915.2	875.3	801.2	738.8	698.1	667.8	651.9	641.8	636.8	633.7
1013.0	7.5°	949.8	891.2	785.7	714.7	672.1	650.4	642.2	640.7	640.3	640.7
1082.4	10°	997.5	917.2	784.2	708.9	673.3	661.2	660.8	661.2	662.8	663.2
1158.0	12.5°	1049.0	943.9	790.4	714.0	688.0	681.4	680.2	679.8	681.0	681.8
1234.4	15°	1105.3	979.2	800.8	724.8	704.3	697.3	696.1	693.8	693.4	693.0
1314.7	17.5°	1163.1	1014.1	812.5	736.5	714.7	705.1	700.8	695.4	691.1	689.9
1397.7	20°	1221.6	1048.7	820.6	742.3	715.5	701.9	693.4	684.1	676.7	672.5
1481.5	22.5°	1284.1	1084.7	825.7	740.7	708.5	689.9	674.4	663.6	652.3	644.9
1566.0	25°	1344.9	1116.1	825.3	732.6	695.0	671.3	651.5	637.6	622.1	614.3
1653.3	27.5°	1403.5	1144.4	815.6	718.2	675.6	649.2	625.5	608.9	593.7	586.4
1741.3	30°	1464.0	1168.1	800.5	697.3	652.7	623.6	597.6	583.3	569.7	562.7
1834.4	32.5°	1524.1	1189.8	779.1	671.3	626.3	598.4	572.8	559.6	551.5	551.5
1934.4	35°	1587.7	1204.9	750.8	641.1	598.4	571.6	551.5	543.7	542.9	538.3
2040.3	37.5°	1654.8	1214.6	716.3	610.0	570.9	545.7	539.5	530.1	522.4	512.3
2156.7	40°	1725.4	1224.3	674.8	577.8	541.8	527.8	525.1	512.7	490.6	465.8
2288.5	42.5°	1811.1	1230.9	631.8	545.7	511.1	506.5	510.4	489.0	453.7	435.1
2447.5	45°	1910.4	1241.8	592.2	513.9	479.7	479.7	496.0	468.1	439.0	427.4
2629.0	47.5°	2039.1	1267.0	555.4	479.0	450.6	458.4	464.2	442.9	426.6	412.2
2850.1	50°	2225.3	1327.5	517.3	443.7	428.5	444.1	435.9	423.5	404.5	392.9
3201.4	52.5°	2456.4	1363.2	483.6	411.9	409.5	425.0	413.4	401.8	387.4	371.9
3467.9	55°	2613.9	1369.8	455.3	388.6	396.7	395.2	390.9	380.4	372.7	352.1
3730.8	57.5°	2790.0	1383.0	432.0	374.6	388.6	371.5	370.0	361.1	351.0	337.0
4051.5	60°	3000.5	1403.5	411.9	369.2	381.6	356.0	348.3	344.8	334.7	327.7
4437.4	62.5°	3230.1	1422.1	391.3	370.0	373.5	340.9	329.3	328.1	321.9	319.6
4799.6	65°	3386.8	1371.3	365.7	369.2	360.7	325.4	310.6	310.3	305.2	304.4
4956.7	67.5°	3332.1	1210.4	331.2	358.3	347.5	309.9	293.6	292.0	285.4	285.8
4792.6	70°	3058.3	980.8	283.5	331.6	331.2	295.9	275.7	270.7	261.8	263.3
4167.1	72.5°	2544.9	726.8	219.5	287.0	305.2	283.1	255.2	247.0	235.8	237.3
3076.2	75°	1837.9	494.1	159.8	218.3	265.7	268.0	235.0	221.1	207.5	209.8
1712.2	77.5°	940.5	280.0	117.5	150.5	208.6	243.5	216.8	198.2	195.1	216.8
493.7	80°	306.8	140.4	81.4	105.5	136.9	199.3	190.0	168.7	167.9	173.0
103.5	82.5°	91.5	59.3	52.4	69.4	75.6	152.8	164.0	127.6	109.8	115.6
34.5	85°	31.4	28.7	29.9	34.5	36.1	89.6	114.8	84.5	79.9	88.0
7.8	87.5°	7.4	10.1	8.5	7.8	7.8	21.7	44.6	35.3	48.9	32.6
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>
881.5
696.9
633.3
641.8
663.6
682.2
692.6
691.1
674.0
645.3
614.3
586.0
562.3
551.9
537.1
510.8
462.3
435.5
429.3
411.9
391.7
368.8
352.5
332.4
329.6
319.6
304.0
285.8
264.9
237.0
210.6
213.7
148.5
119.4
86.9
31.4
0.0

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