

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: P946887

Luminaire Tested: **GALN-SB2B-927-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
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-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6841 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

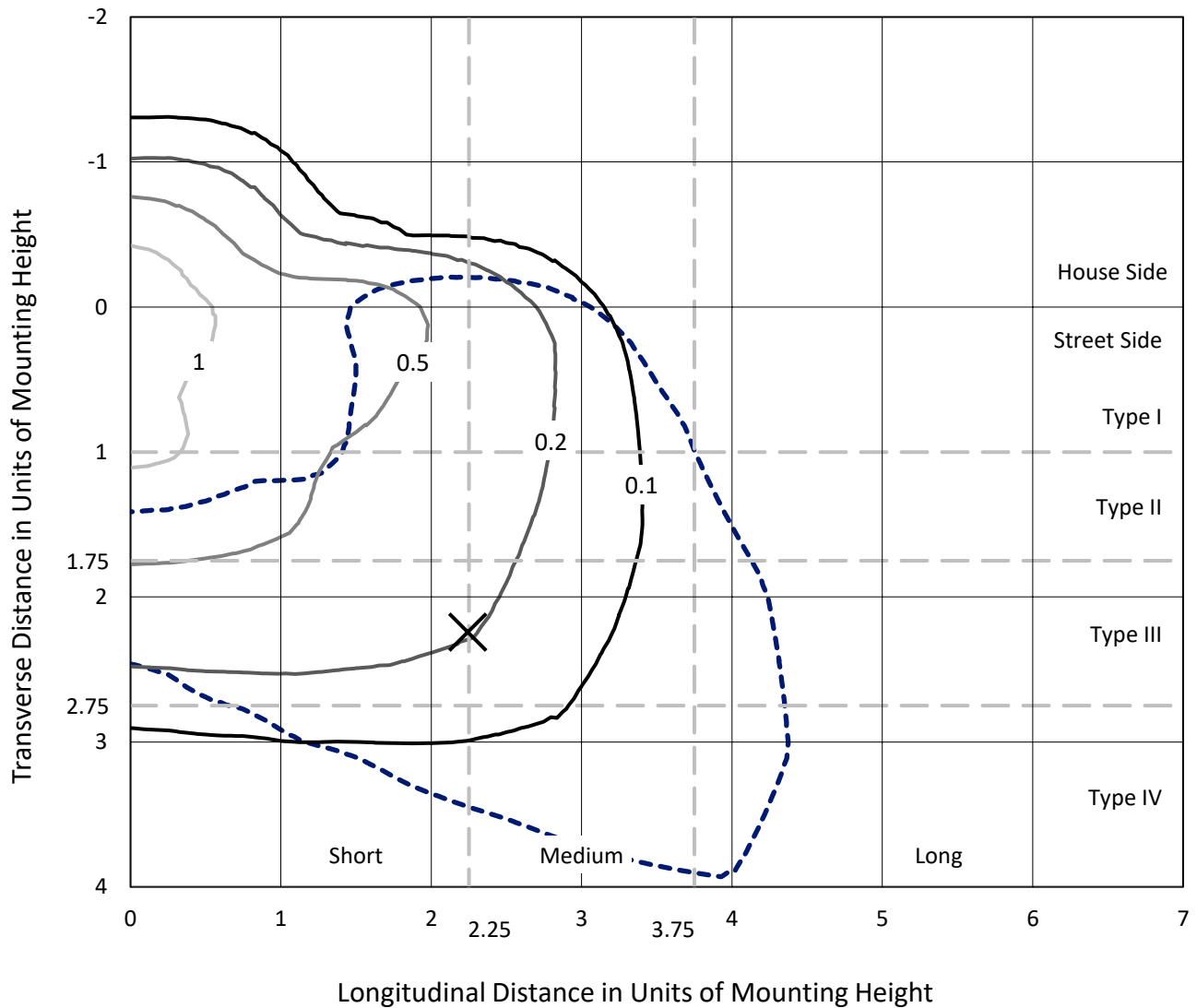
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

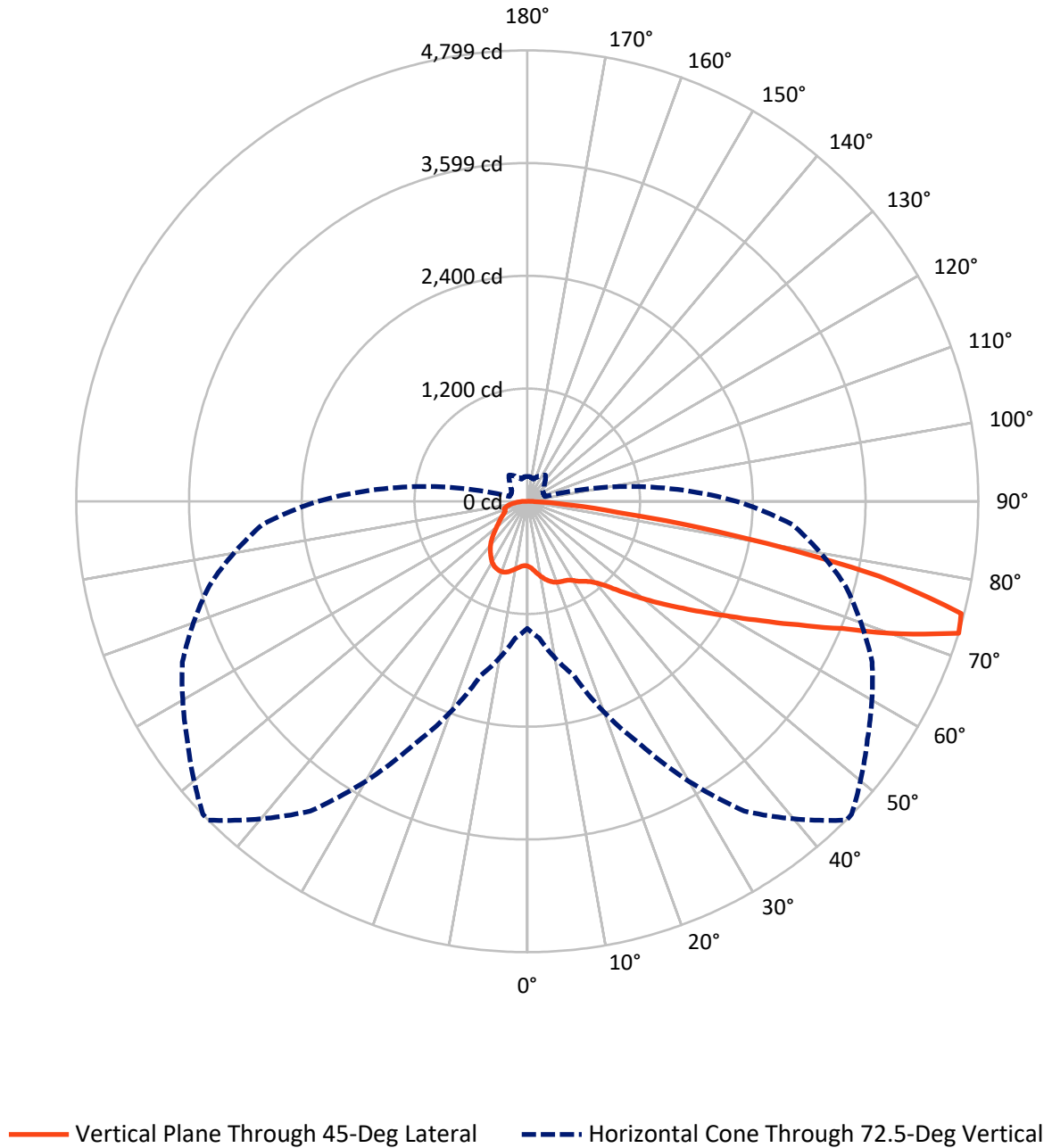
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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	1546.5	0.0	1546.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	5294.5	0.0	5294.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	6841.0	0.0	6841.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	1.0
10°-20°	234.2	3.4
20°-30°	407.4	6.0
30°-40°	584.0	8.5
40°-50°	822.3	12.0
50°-60°	1259.6	18.4
60°-70°	1824.7	26.7
70°-80°	1457.1	21.3
80°-90°	181.5	2.7
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°	6841.0	100.0
0°-180°	6841.0	100.0

Coefficient of Utilization



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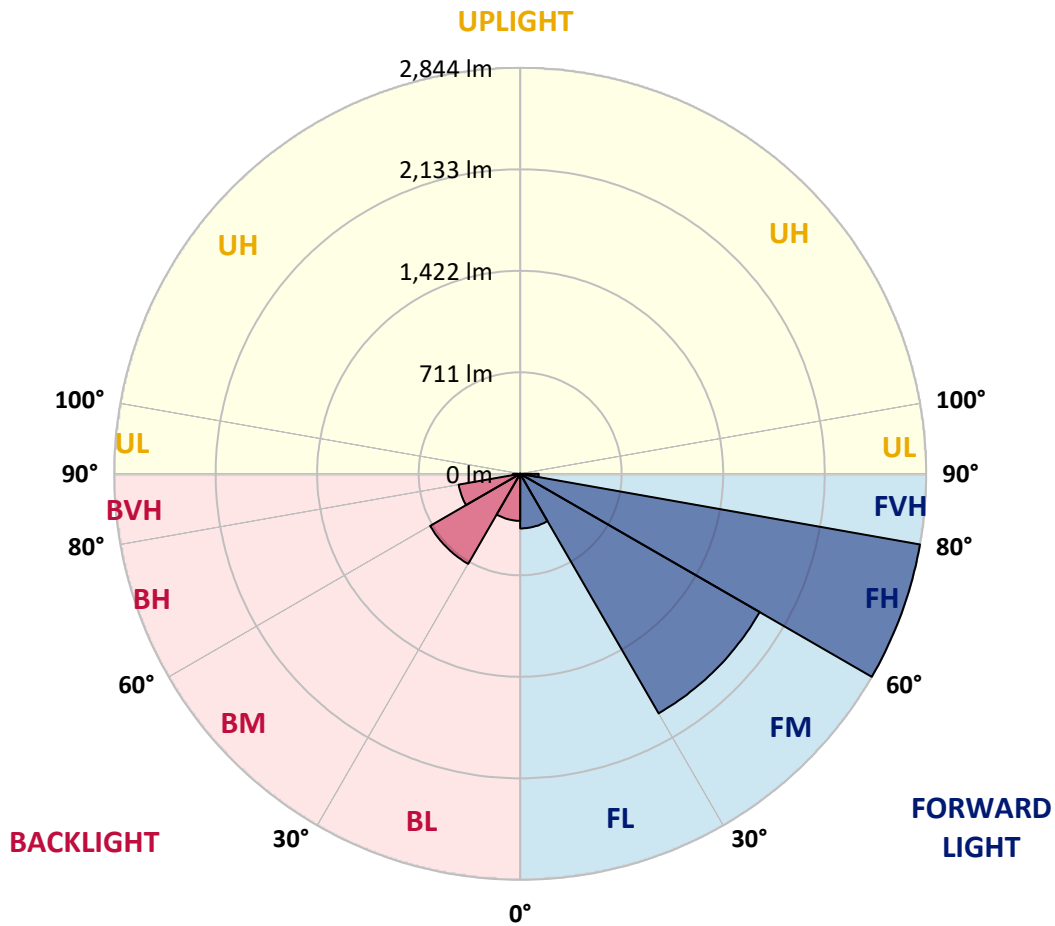
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	382.6	5.6			
FM (30°-60°)	1937.7	28.3			
FH (60°-80°)	2844.0	41.6			G2/5000
FVH (80°-90°)	130.2	1.9			G2/225
BL (0°-30°)	329.3	4.8	B1/500		
BM (30°-60°)	728.2	10.6	B1/1000		
BH (60°-80°)	437.8	6.4	B1/500		G1/500
BVH (80°-90°)	51.3	0.7			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	690.1	690.1	690.1	690.1	690.1	690.1	690.1	690.1	690.1	690.1
2.5°	717.2	721.8	717.5	713.5	711.7	707.1	706.7	703.8	702.0	697.0
5°	767.2	773.4	766.2	758.2	751.0	739.5	738.1	729.8	720.4	709.6
7.5°	823.8	829.2	820.9	809.0	796.4	777.3	777.0	761.8	747.1	728.7
10°	873.2	880.4	869.2	853.0	837.2	815.5	813.0	795.7	777.0	753.2
12.5°	916.8	921.8	911.0	891.2	872.8	851.2	848.0	828.9	808.0	780.9
15°	951.4	957.9	943.5	922.2	902.7	881.5	878.6	861.3	840.4	811.9
17.5°	974.1	979.5	964.7	940.9	922.2	904.5	902.4	888.0	869.6	840.8
20°	982.8	988.5	973.0	948.9	931.6	917.9	916.8	906.4	893.7	867.4
22.5°	991.4	996.8	976.6	951.4	936.3	927.6	927.3	920.4	915.4	893.7
25°	1026.4	1027.8	1000.8	964.4	942.7	935.2	934.8	934.5	936.6	919.7
27.5°	1056.6	1056.3	1033.2	999.0	965.5	949.6	949.2	952.8	959.7	945.6
30°	1101.0	1097.0	1069.6	1033.9	1003.3	978.8	976.6	973.4	978.8	967.6
32.5°	1195.0	1182.4	1138.1	1074.6	1034.6	1015.9	1013.0	992.8	995.0	988.2
35°	1329.8	1313.2	1254.1	1151.8	1073.6	1046.9	1045.5	1019.9	1015.5	1009.4
37.5°	1490.2	1469.6	1400.8	1263.5	1140.6	1082.9	1080.8	1057.7	1040.1	1033.6
40°	1651.3	1625.3	1568.4	1399.7	1239.3	1143.1	1136.3	1101.3	1081.1	1070.3
42.5°	1807.7	1786.0	1737.4	1552.5	1361.1	1231.1	1215.9	1156.1	1141.0	1130.9
45°	1946.0	1926.6	1890.9	1715.8	1503.9	1350.7	1335.9	1238.3	1233.6	1233.6
47.5°	2058.5	2054.2	2016.3	1882.3	1672.2	1486.9	1461.3	1352.5	1365.1	1384.6
50°	2183.2	2171.3	2130.9	2046.2	1870.0	1643.0	1622.1	1492.7	1539.9	1593.2
52.5°	2297.8	2304.3	2259.2	2217.0	2093.4	1817.0	1780.3	1658.1	1760.1	1848.4
55°	2415.6	2416.0	2403.4	2397.6	2327.7	2009.5	1969.1	1857.0	2019.2	2128.8
57.5°	2526.2	2527.0	2545.7	2596.5	2599.4	2231.5	2185.7	2101.4	2307.1	2418.9
60°	2625.0	2630.0	2681.2	2800.1	2838.3	2485.9	2442.6	2390.0	2604.8	2717.2
62.5°	2658.1	2676.5	2790.4	2959.4	3074.4	2798.0	2755.4	2724.1	2917.6	3022.1
65°	2601.9	2644.1	2864.3	3091.0	3317.3	3168.8	3126.6	3092.4	3242.7	3341.1
67.5°	2463.9	2518.3	2860.0	3229.0	3612.1	3615.0	3575.7	3495.3	3591.2	3629.0
70°	2100.3	2181.7	2608.1	3280.5	3950.5	4225.1	4187.2	3980.4	3938.9	3755.9
72.5°	1353.2	1462.8	1920.5	2856.4	4025.8	4799.2	4797.0	4418.2	4048.8	3509.4
75°	493.7	560.7	892.3	1792.9	3379.3	4770.0	4784.0	4343.3	3696.0	2710.8
77.5°	179.8	196.8	291.2	689.0	2078.3	3827.2	3856.4	3472.2	2630.8	1360.4
80°	94.4	103.8	149.2	267.4	890.5	2272.9	2318.7	2063.5	1236.5	409.7
82.5°	52.3	56.6	83.6	145.2	401.1	971.9	999.3	815.2	435.0	173.7
85°	28.1	29.9	39.3	79.3	196.0	337.0	344.5	243.6	173.3	102.0
87.5°	8.3	10.1	13.0	25.2	76.8	75.7	77.5	48.3	68.5	51.5
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°
690.1	0°	690.1	690.1	690.1	690.1	690.1	690.1	690.1	690.1	690.1	690.1
695.5	2.5°	693.4	692.3	688.3	686.5	684.4	684.0	685.8	686.2	686.5	686.9
703.5	5°	699.9	696.3	692.6	690.5	691.2	691.6	695.2	697.7	699.5	700.9
718.2	7.5°	712.5	709.6	703.5	703.1	704.2	707.4	712.1	717.9	721.1	723.6
737.3	10°	731.2	725.8	718.6	719.7	721.8	726.5	736.3	740.9	746.3	751.0
760.8	12.5°	750.3	745.6	737.3	738.1	741.7	749.9	759.3	765.1	768.7	772.3
786.0	15°	775.2	766.9	757.9	757.9	764.4	773.4	777.7	782.4	784.5	788.5
813.0	17.5°	800.8	789.9	778.1	777.3	785.3	789.6	792.1	792.8	793.6	797.9
839.3	20°	826.3	814.5	797.5	796.1	797.9	797.2	796.8	796.1	797.2	802.6
866.3	22.5°	851.6	837.9	814.5	808.0	802.9	796.1	795.7	795.4	796.1	801.5
895.5	25°	881.1	864.5	833.2	813.7	796.8	787.4	788.5	788.9	789.6	793.9
925.8	27.5°	913.2	894.8	850.5	811.9	781.3	774.8	773.0	774.1	776.6	783.5
956.1	30°	945.3	923.6	866.3	804.7	761.8	752.8	747.1	749.6	757.5	764.4
982.4	32.5°	974.5	952.8	879.0	788.9	737.0	722.9	715.4	718.6	726.5	729.0
1011.6	35°	1008.7	984.2	884.4	763.6	709.9	688.3	678.2	673.5	677.5	675.0
1045.8	37.5°	1046.9	1021.3	883.6	730.5	678.2	653.4	639.3	621.7	613.4	604.7
1096.3	40°	1103.5	1066.7	875.0	690.5	639.0	616.2	591.0	561.1	542.4	525.4
1177.7	42.5°	1180.6	1129.8	859.1	646.5	594.6	573.4	539.1	504.2	474.6	446.5
1301.3	45°	1295.6	1212.3	839.3	599.7	546.7	525.8	488.7	449.4	415.9	379.8
1476.8	47.5°	1461.3	1323.3	820.6	546.3	496.2	477.1	443.6	407.2	367.6	332.6
1730.5	50°	1689.1	1482.6	803.3	494.4	446.5	432.1	405.4	368.3	328.3	300.2
2027.8	52.5°	1978.8	1699.2	796.1	444.3	400.0	394.6	373.4	338.8	300.9	277.1
2374.5	55°	2311.5	1958.3	796.1	396.4	359.3	361.1	346.3	314.2	281.5	260.2
2732.0	57.5°	2650.9	2220.6	781.7	352.1	324.7	332.3	322.9	294.8	265.2	243.3
3107.9	60°	2963.7	2440.5	723.3	311.7	294.1	306.0	299.8	275.7	239.7	221.3
3422.1	62.5°	3204.1	2564.4	610.8	279.7	268.8	282.5	279.3	250.5	235.0	227.4
3680.2	65°	3324.5	2544.3	467.0	251.2	247.6	268.8	262.0	260.9	248.7	240.0
3764.1	67.5°	3250.6	2370.6	338.8	230.3	235.3	256.2	282.5	286.9	264.2	247.2
3527.7	70°	2926.6	2056.3	252.3	210.5	219.8	256.6	322.2	300.2	259.1	239.3
2829.3	72.5°	2226.4	1533.4	195.7	189.6	199.6	258.4	339.8	294.1	244.7	264.5
1762.6	75°	1273.2	841.8	157.1	164.0	174.4	241.5	330.8	278.2	233.5	242.9
698.4	77.5°	485.4	323.6	129.7	138.7	140.2	210.8	316.4	277.1	222.4	216.9
209.4	80°	168.3	126.5	107.4	110.3	108.5	187.4	303.4	241.1	182.0	162.9
86.5	82.5°	68.8	63.1	85.0	81.4	77.1	145.6	245.1	197.1	148.8	131.5
41.8	85°	29.9	40.0	56.2	49.4	44.7	100.9	196.4	166.9	125.8	108.5
13.7	87.5°	6.1	15.1	23.8	22.3	23.1	67.4	139.5	118.6	89.0	66.7
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>
690.1
688.3
701.7
724.4
749.9
773.7
789.9
799.3
804.7
805.1
799.7
790.3
771.9
738.1
682.9
610.1
526.5
444.0
375.5
328.7
298.4
275.3
258.0
239.7
218.4
224.9
237.1
244.3
236.0
262.4
242.9
197.8
157.5
130.1
108.1
52.3
0.0

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