

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: P947904

Luminaire Tested: **GALN-SB3A-840-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947904
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-840-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12582 lumens
Efficiency: N/A
Efficacy: 148.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

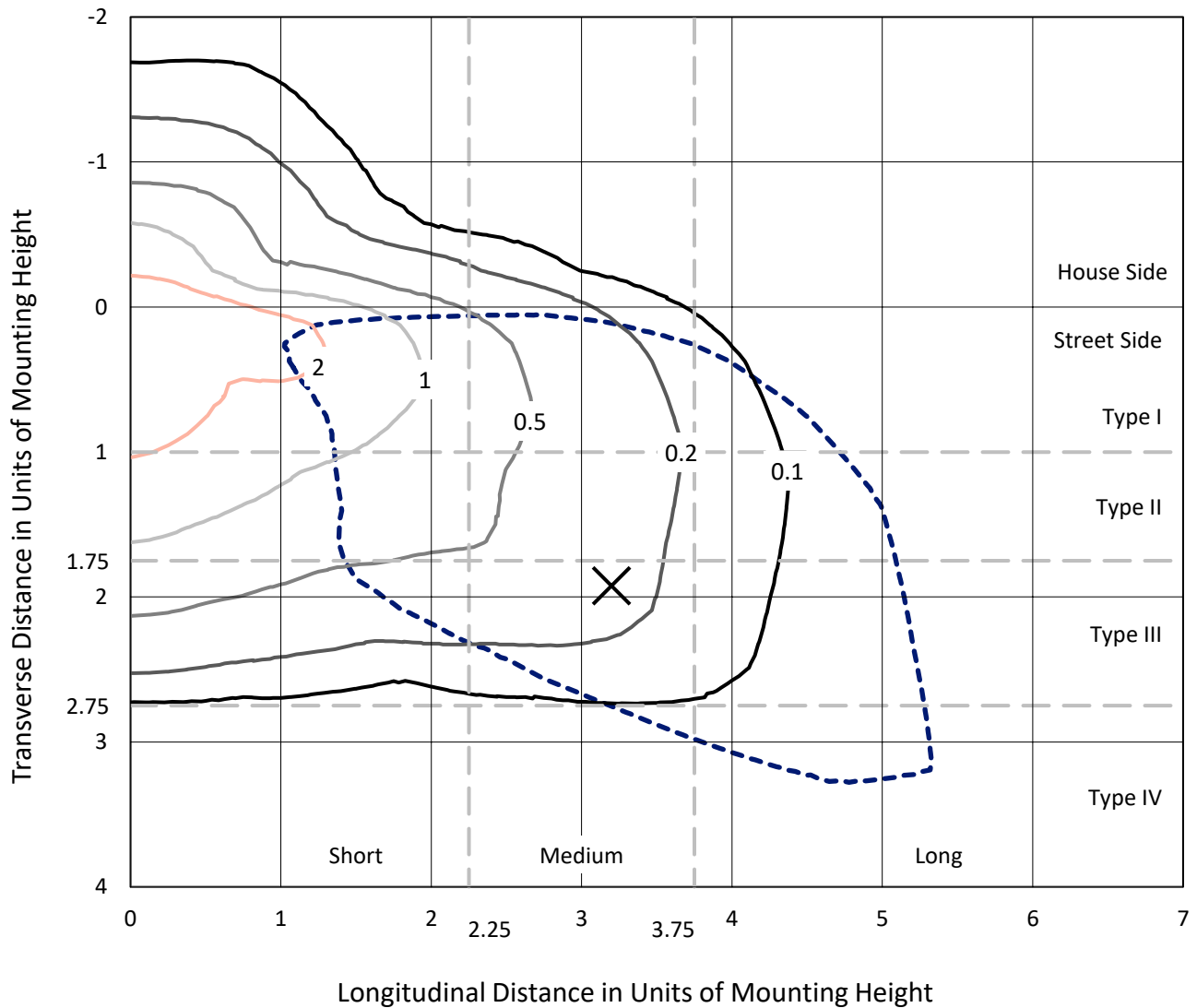
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

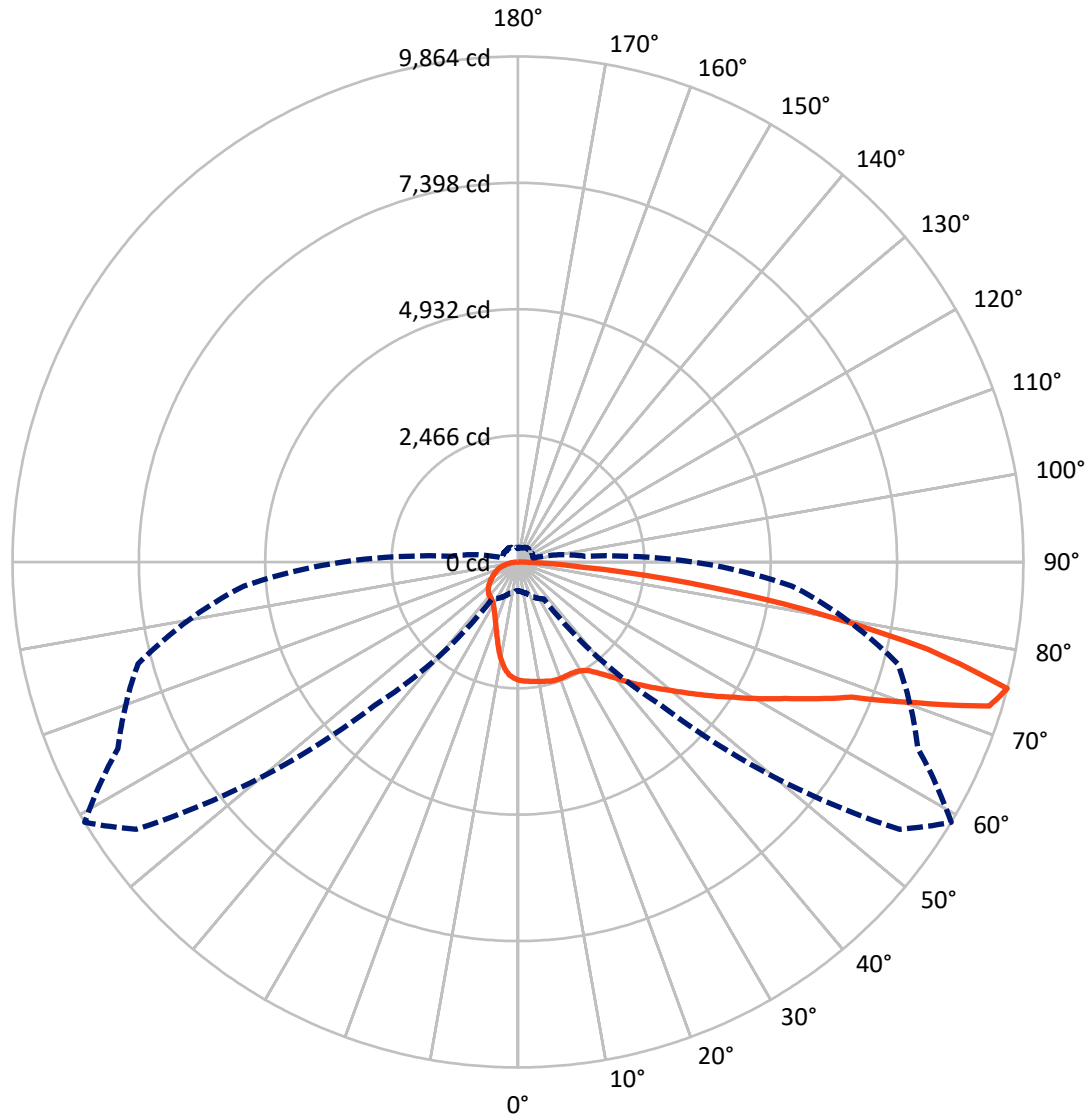
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2359.8	0.0	2359.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	10222.2	0.0	10222.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	12582.0	0.0	12582.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.1	1.6
10°-20°	529.3	4.2
20°-30°	804.0	6.4
30°-40°	1195.1	9.5
40°-50°	1777.3	14.1
50°-60°	2412.4	19.2
60°-70°	2945.2	23.4
70°-80°	2311.3	18.4
80°-90°	400.4	3.2
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°	12582.0	100.0
0°-180°	12582.0	100.0

Coefficient of Utilization



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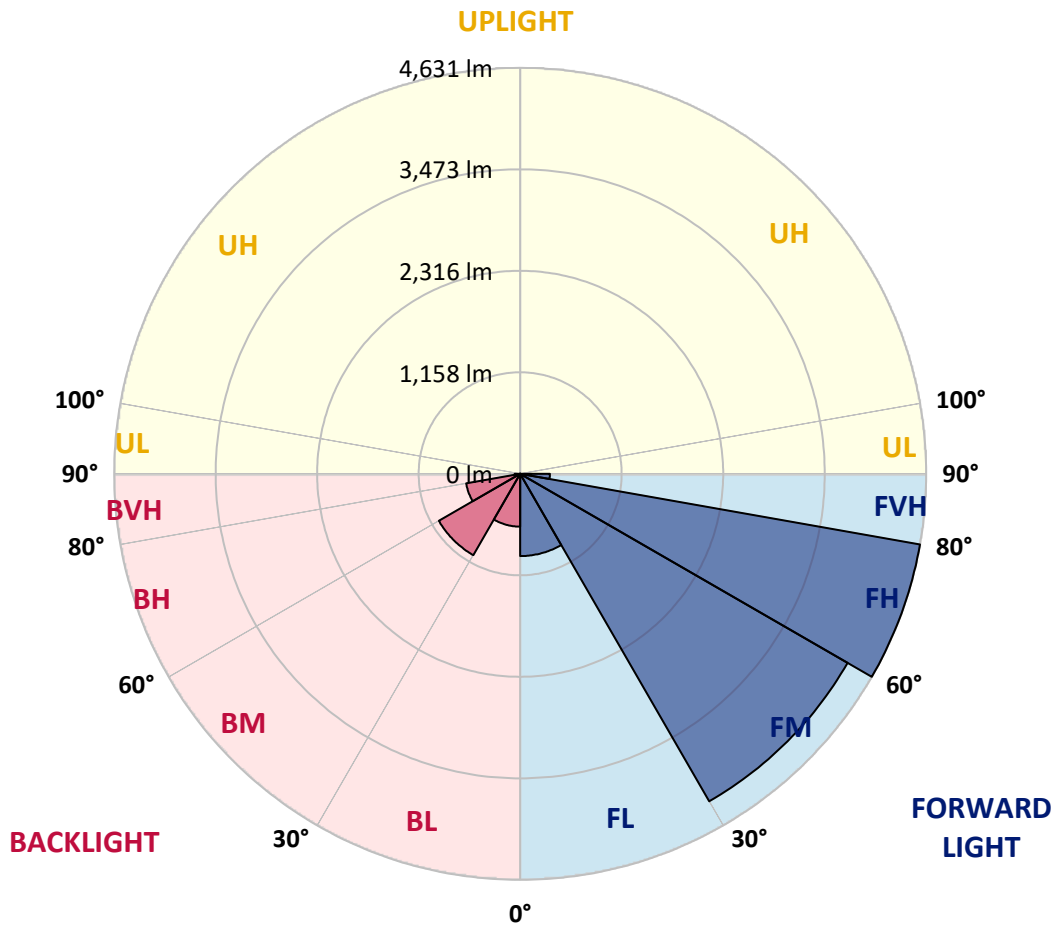
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	938.1	7.5			
FM (30°-60°)	4313.6	34.3			
FH (60°-80°)	4631.3	36.8			G2/5000
FVH (80°-90°)	339.1	2.7			G3/500
BL (0°-30°)	602.2	4.8	B2/1000		
BM (30°-60°)	1071.1	8.5	B2/2500		
BH (60°-80°)	625.2	5.0	B2/1000		G2/1000
BVH (80°-90°)	61.3	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-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	2309.4	2309.4	2309.4	2309.4	2309.4	2309.4	2309.4	2309.4	2309.4	2309.4
2.5°	2329.0	2320.9	2329.0	2325.6	2324.3	2321.6	2322.3	2327.0	2324.3	2327.7
5°	2313.5	2308.7	2316.8	2314.8	2323.6	2325.0	2333.8	2339.2	2342.6	2343.2
7.5°	2287.7	2283.0	2294.5	2304.0	2322.9	2328.3	2346.6	2355.4	2360.2	2368.3
10°	2193.7	2191.6	2220.1	2255.9	2300.6	2328.3	2356.1	2371.0	2378.4	2400.1
12.5°	2027.2	2029.9	2067.1	2136.1	2225.5	2314.8	2366.9	2388.6	2400.1	2427.2
15°	1868.1	1867.4	1908.0	1981.8	2107.0	2255.3	2372.3	2409.6	2429.2	2469.1
17.5°	1776.0	1773.3	1801.8	1857.9	1974.4	2163.9	2358.8	2421.1	2463.0	2513.1
20°	1759.1	1753.7	1768.6	1796.3	1878.9	2063.7	2323.6	2421.1	2490.1	2555.1
22.5°	1820.7	1811.9	1805.8	1802.4	1839.0	1981.1	2283.7	2413.0	2530.0	2615.3
25°	1944.6	1931.0	1899.9	1869.4	1858.6	1943.9	2248.5	2410.9	2589.6	2696.6
27.5°	2144.9	2128.0	2065.1	1992.0	1926.3	1962.9	2232.9	2423.1	2655.3	2782.5
30°	2393.3	2375.1	2295.9	2183.5	2065.7	2033.2	2252.5	2459.0	2739.2	2896.9
32.5°	2616.0	2595.7	2528.0	2413.6	2254.6	2155.1	2314.8	2527.3	2871.2	3056.0
35°	2813.6	2790.0	2729.0	2623.5	2486.1	2326.3	2427.2	2648.5	3058.7	3314.5
37.5°	3007.2	2979.5	2913.1	2801.5	2705.4	2554.4	2582.2	2804.2	3307.7	3628.6
40°	3223.8	3183.9	3103.3	2993.0	2899.6	2821.8	2785.9	2995.0	3560.9	3979.2
42.5°	3433.6	3395.7	3299.6	3205.5	3088.4	3066.1	3022.1	3218.4	3837.7	4364.3
45°	3659.7	3614.4	3497.9	3378.8	3305.0	3228.6	3250.9	3441.8	4109.1	4756.9
47.5°	3871.6	3820.8	3683.4	3550.7	3510.1	3365.3	3460.7	3687.5	4391.4	5154.9
50°	3985.9	3935.9	3821.5	3701.7	3669.9	3533.8	3688.1	3957.5	4687.2	5551.5
52.5°	4081.4	4027.2	3877.6	3811.3	3801.8	3717.2	3968.3	4266.2	4982.9	5902.1
55°	4182.9	4122.7	3931.8	3872.2	3915.6	3923.0	4300.7	4616.1	5295.6	6243.9
57.5°	4300.0	4223.5	3983.9	3923.7	4026.6	4164.0	4682.4	4978.9	5602.9	6560.7
60°	4410.3	4333.2	4084.1	4005.6	4146.4	4443.5	5120.3	5418.2	5950.8	6842.9
62.5°	4432.0	4368.4	4164.0	4163.3	4308.8	4769.7	5638.8	5861.5	6254.7	7121.8
65°	4057.0	4017.1	3895.9	4157.2	4541.6	5239.5	6216.2	6428.7	6641.2	7365.4
67.5°	3087.8	3093.2	3084.4	3588.6	4353.5	5914.3	7052.1	7035.8	7118.4	7638.9
70°	1411.9	1443.7	1650.8	2477.3	3487.8	5992.1	8434.2	8223.7	7717.4	7992.9
72.5°	762.8	787.2	871.8	1200.0	2096.9	5327.5	9467.0	9616.6	8514.0	8231.1
75°	559.8	573.3	632.2	762.8	880.6	3959.5	9096.8	9864.4	8613.5	7675.4
77.5°	419.0	425.1	473.1	604.4	450.8	2087.4	7268.6	8169.5	7373.6	6306.2
80°	303.9	310.7	346.5	453.5	316.1	763.5	4991.1	5734.2	5049.9	4019.8
82.5°	209.8	212.5	228.1	308.6	220.7	296.5	2831.9	3362.6	2819.1	1410.5
85°	126.6	130.0	136.7	180.0	125.2	140.8	1222.4	1264.3	842.7	337.1
87.5°	52.1	55.5	60.9	75.8	49.4	39.3	201.7	253.1	157.7	98.8
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°
2309.4	0°	2309.4	2309.4	2309.4	2309.4	2309.4	2309.4	2309.4	2309.4	2309.4	2309.4
2316.2	2.5°	2312.8	2308.0	2295.2	2277.6	2261.3	2241.0	2232.2	2224.8	2218.0	2205.2
2334.4	5°	2327.0	2314.1	2279.6	2234.9	2184.2	2128.7	2074.5	2037.3	2005.5	1981.8
2355.4	7.5°	2348.7	2324.3	2261.3	2170.0	2053.6	1934.4	1826.8	1750.3	1692.8	1671.8
2385.2	10°	2371.0	2341.9	2232.2	2071.1	1870.1	1686.7	1543.9	1465.4	1419.3	1404.5
2420.4	12.5°	2397.4	2354.7	2186.9	1933.7	1665.0	1464.0	1339.5	1293.5	1269.8	1261.6
2463.7	15°	2436.0	2365.6	2118.5	1761.8	1469.4	1301.6	1221.0	1189.2	1177.0	1176.4
2508.4	17.5°	2465.1	2367.6	2012.3	1577.7	1319.2	1203.4	1137.1	1124.9	1133.0	1145.2
2552.4	20°	2497.6	2349.3	1872.8	1409.9	1213.6	1117.5	1089.7	1097.8	1117.5	1135.1
2610.6	22.5°	2520.6	2316.2	1704.3	1279.2	1122.2	1068.1	1066.7	1083.6	1094.5	1103.3
2679.0	25°	2540.9	2260.0	1525.6	1169.6	1047.1	1038.3	1053.2	1047.8	1040.3	1047.8
2747.3	27.5°	2555.8	2171.3	1365.9	1073.5	994.3	1018.0	1009.2	997.0	996.3	1000.4
2827.9	30°	2551.0	2052.9	1234.6	982.1	957.1	980.1	959.1	957.1	955.0	957.1
2949.0	32.5°	2551.0	1918.2	1133.7	919.2	933.4	924.6	922.5	917.8	909.7	909.0
3113.5	35°	2565.2	1783.5	1047.1	885.3	913.7	892.8	894.1	882.6	865.7	857.6
3331.4	37.5°	2594.4	1675.2	961.1	869.1	879.2	878.5	873.1	853.5	823.7	798.0
3603.5	40°	2664.7	1643.4	902.2	861.6	863.0	871.1	856.9	819.0	751.3	709.3
3879.7	42.5°	2775.1	1696.9	889.4	843.3	852.1	860.3	832.5	744.5	696.5	671.4
4169.4	45°	2915.2	1790.3	917.1	817.0	826.4	840.6	758.1	716.1	694.4	695.1
4456.4	47.5°	3092.5	1888.4	968.6	793.9	789.2	797.3	708.7	682.9	653.2	660.6
4731.8	50°	3297.6	1987.9	1017.3	762.8	747.9	721.5	676.8	652.5	614.6	597.0
4997.8	52.5°	3519.6	2084.0	1036.9	724.9	703.2	672.8	655.2	625.4	579.4	550.3
5248.9	55°	3730.1	2171.3	1015.3	679.6	658.6	634.9	632.2	613.9	564.5	523.9
5472.3	57.5°	3929.1	2244.4	961.1	633.5	613.2	599.0	617.3	608.5	546.2	494.1
5683.5	60°	4097.6	2294.5	882.6	586.8	572.6	565.2	592.9	590.2	520.5	462.3
5873.0	62.5°	4231.6	2314.1	796.0	542.2	538.8	525.2	559.1	559.1	488.0	431.2
6039.5	65°	4336.6	2295.2	708.0	498.2	504.9	484.6	517.8	513.7	453.5	403.4
6231.0	67.5°	4429.3	2232.9	610.5	454.8	470.4	444.7	474.5	465.0	415.6	375.6
6396.9	70°	4470.6	2088.1	499.5	411.5	430.5	405.4	431.2	413.6	372.9	345.9
6214.8	72.5°	4138.9	1735.4	393.2	366.2	382.4	362.1	384.4	364.1	326.9	314.7
5366.7	75°	3424.2	1302.3	302.6	316.8	328.9	313.4	328.3	313.4	279.5	288.3
3964.3	77.5°	2486.7	879.2	231.5	264.6	270.1	261.9	274.8	257.9	227.4	225.4
1975.7	80°	1236.6	515.1	181.4	209.1	207.1	201.7	216.6	208.5	182.7	193.6
533.4	82.5°	358.1	220.7	132.0	146.9	142.8	144.2	155.0	159.1	238.2	236.2
165.8	85°	112.4	86.6	79.2	81.9	77.8	79.9	91.4	181.4	167.9	98.1
51.4	87.5°	29.1	29.8	19.6	21.0	21.7	25.7	29.1	110.3	52.8	34.5
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>
2309.4
2199.1
1962.2
1635.3
1381.4
1263.7
1179.1
1150.0
1141.2
1108.0
1052.5
1007.1
964.5
917.8
865.7
806.8
714.7
671.4
698.5
679.6
601.7
549.6
523.9
491.4
460.3
429.1
400.7
372.9
340.5
304.6
263.3
215.2
191.5
241.6
106.3
36.5
0.0

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