

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: P941474

Luminaire Tested: **GALN-SB5A-740-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5A-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17506 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

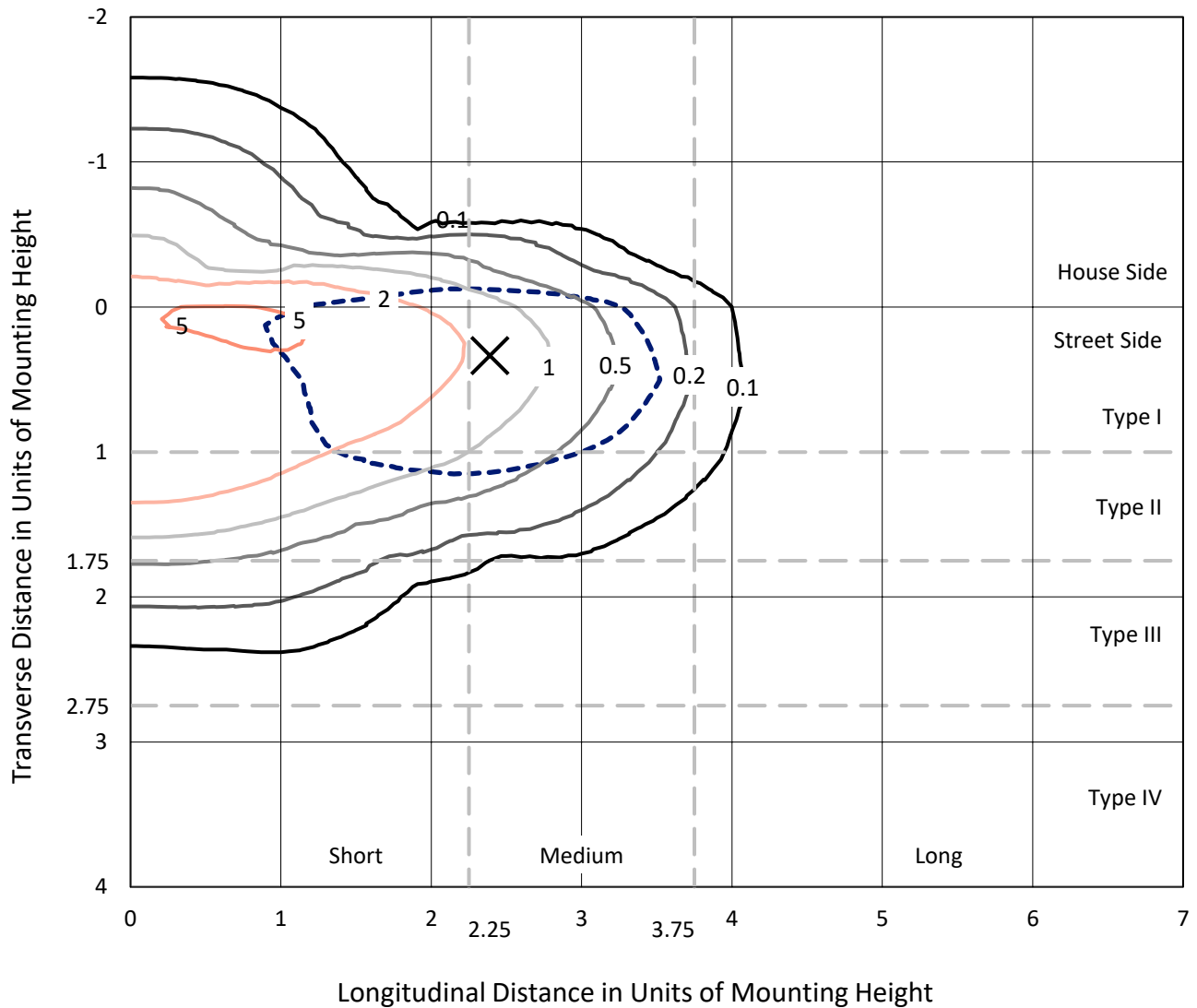
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

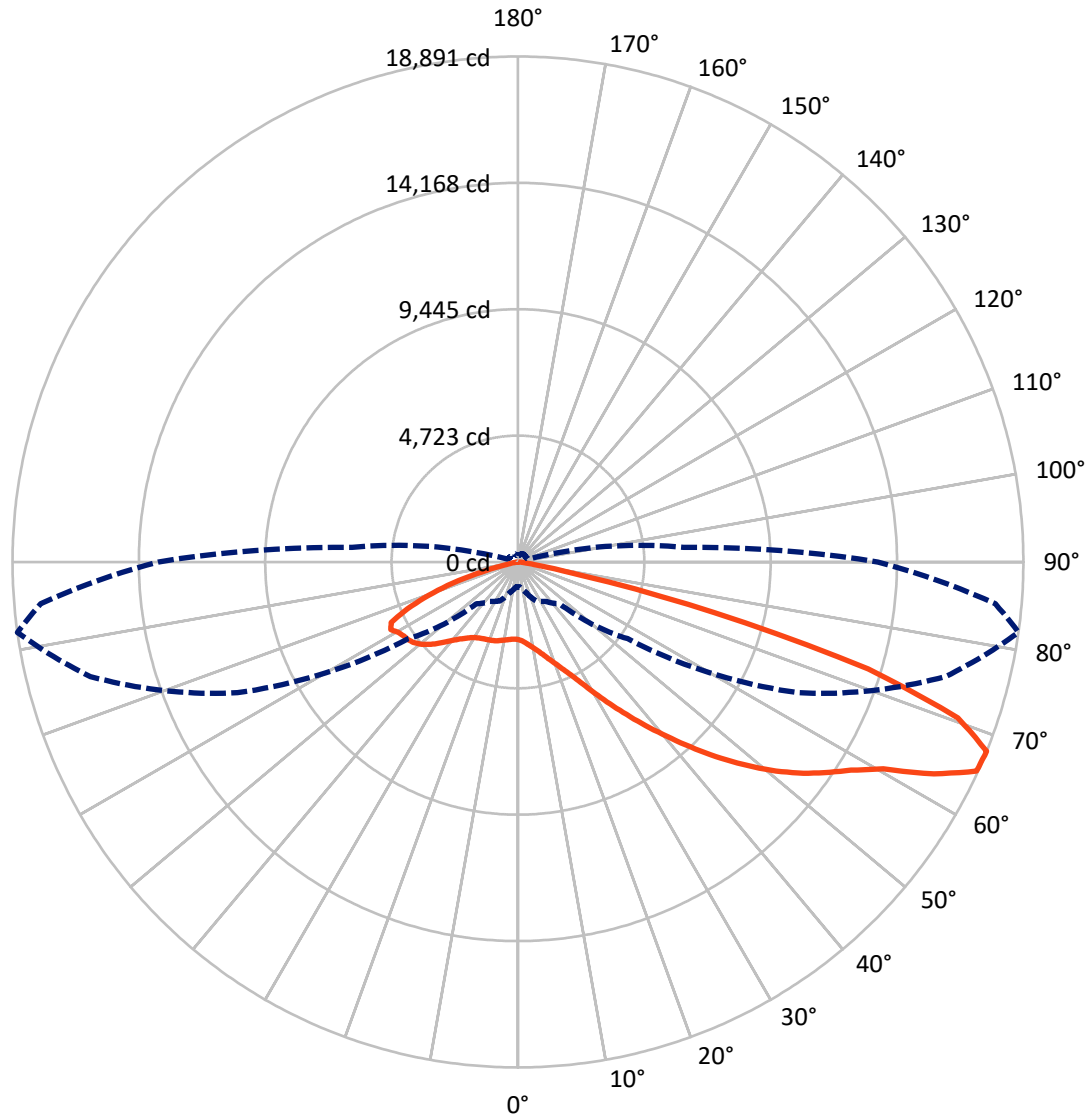
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3171.1	0.0	3171.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	14334.9	0.0	14334.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	17506.0	0.0	17506.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.4	1.5
10°-20°	671.4	3.8
20°-30°	1075.4	6.1
30°-40°	1901.7	10.9
40°-50°	3331.9	19.0
50°-60°	4443.8	25.4
60°-70°	4137.0	23.6
70°-80°	1587.8	9.1
80°-90°	98.6	0.6
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°	17506.0	100.0
0°-180°	17506.0	100.0

Coefficient of Utilization



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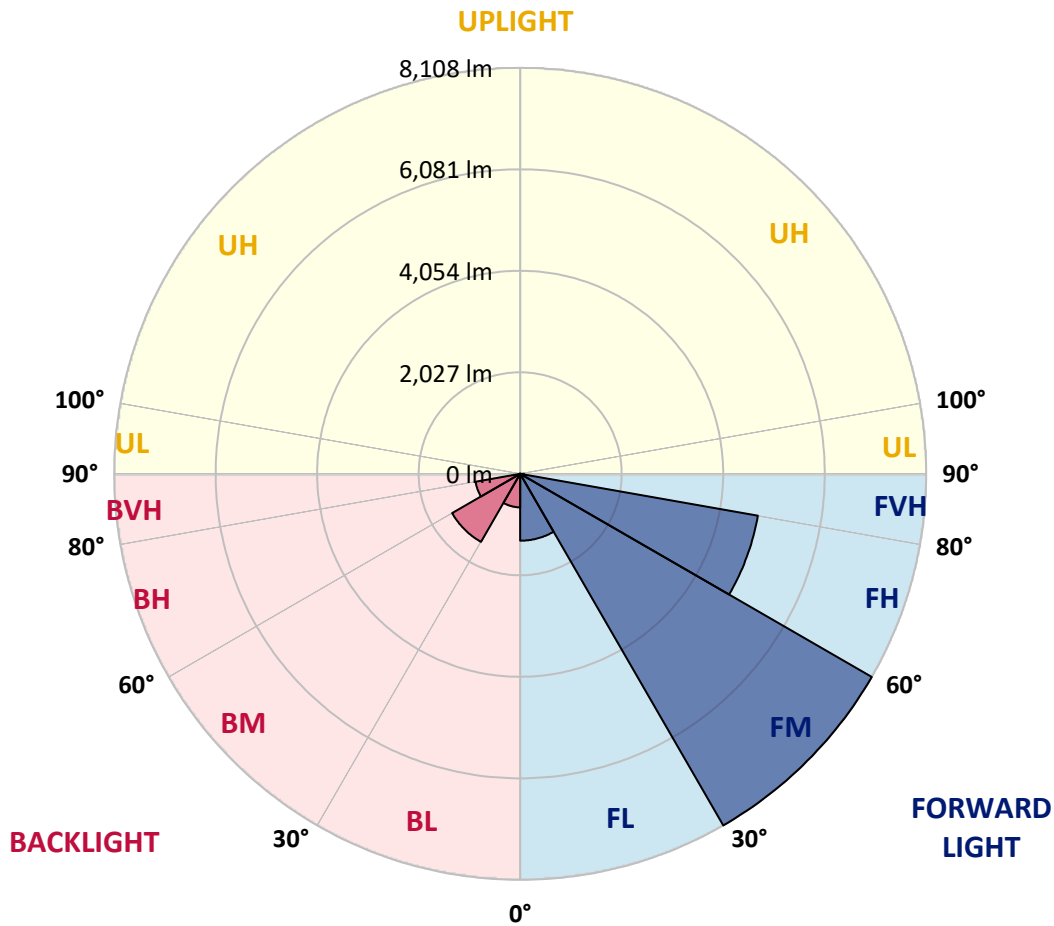
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1335.5	7.6			
FM (30°-60°)	8108.1	46.3			
FH (60°-80°)	4819.7	27.5			G2/5000
FVH (80°-90°)	71.7	0.4			G1/100
BL (0°-30°)	669.7	3.8	B2/1000		
BM (30°-60°)	1569.3	9.0	B2/2500		
BH (60°-80°)	905.1	5.2	B2/1000		G2/1000
BVH (80°-90°)	26.9	0.2			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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2900.2	2900.2	2900.2	2900.2	2900.2	2900.2	2900.2	2900.2	2900.2	2900.2
2.5°	3065.3	3082.9	3072.8	3067.8	3059.0	3046.4	3036.3	3004.8	2972.0	2950.6
5°	3127.0	3144.7	3143.4	3148.4	3154.8	3158.5	3156.0	3120.7	3074.1	3037.5
7.5°	3074.1	3094.3	3110.6	3135.8	3180.0	3226.6	3249.3	3241.7	3193.8	3143.4
10°	2924.1	2945.5	2984.6	3043.8	3137.1	3237.9	3322.4	3361.5	3331.2	3275.7
12.5°	2649.3	2670.8	2747.6	2876.2	3032.5	3207.7	3369.0	3473.6	3481.2	3425.7
15°	2340.5	2362.0	2443.9	2605.2	2843.4	3124.5	3394.2	3592.1	3658.9	3611.0
17.5°	2149.0	2167.9	2229.6	2359.4	2607.7	2958.1	3385.4	3718.1	3870.7	3832.8
20°	2091.0	2107.4	2136.4	2227.1	2433.8	2785.5	3327.4	3836.6	4098.8	4077.4
22.5°	2152.7	2167.9	2176.7	2217.0	2346.8	2672.0	3254.3	3957.6	4363.5	4366.0
25°	2295.2	2310.3	2300.2	2325.4	2382.1	2636.7	3226.6	4100.0	4696.2	4723.9
27.5°	2529.6	2530.9	2506.9	2505.7	2514.5	2689.7	3255.6	4252.5	5115.9	5167.6
30°	2999.7	2980.8	2888.8	2789.2	2743.9	2848.5	3336.2	4432.8	5611.2	5703.3
32.5°	3724.4	3696.7	3527.8	3289.6	3050.1	3104.3	3481.2	4638.2	6150.7	6317.1
35°	4510.9	4503.4	4326.9	3972.7	3554.3	3468.6	3716.9	4907.9	6739.3	7004.0
37.5°	5242.0	5238.2	5137.3	4720.2	4211.0	3976.5	4095.0	5260.9	7369.5	7752.6
40°	5910.0	5921.3	5820.5	5447.4	4934.4	4628.1	4609.2	5697.0	8070.3	8568.1
42.5°	6487.2	6499.8	6397.7	6121.7	5649.1	5349.1	5240.7	6231.4	8754.7	9444.1
45°	6879.2	6957.3	6942.2	6721.6	6382.6	6071.3	5999.4	6901.9	9534.8	10373.0
47.5°	6990.1	7062.0	7175.4	7205.6	6998.9	6692.7	6778.4	7709.8	10323.8	11303.2
50°	6716.6	6783.4	7019.1	7332.9	7476.6	7382.1	7535.9	8575.7	11131.7	12230.8
52.5°	6177.2	6245.2	6542.7	7039.3	7625.3	7922.8	8295.9	9429.0	11914.4	13109.3
55°	5397.0	5468.8	5850.7	6412.9	7341.8	8145.9	8929.8	10281.0	12631.6	13899.6
57.5°	4335.7	4388.7	4785.7	5572.2	6628.4	7924.1	9397.4	11211.1	13307.2	14676.0
60°	2825.8	2872.4	3333.7	4211.0	5446.1	7182.9	9490.7	12248.4	14204.6	15685.5
62.5°	1879.2	1910.7	2184.3	2828.3	3835.4	5760.0	8945.0	13076.5	15520.4	17442.5
65°	1289.4	1320.9	1594.4	2043.1	2477.9	3810.2	7375.8	12966.9	16712.7	18837.8
67.5°	920.1	946.6	1178.5	1602.0	1793.5	2213.2	5000.0	11565.3	16541.3	18890.7
70°	659.2	674.3	865.9	1247.8	1425.5	1329.7	2780.4	8845.4	14483.1	17443.8
72.5°	461.3	466.3	601.2	950.3	1148.2	970.5	1323.4	5897.4	10954.0	13691.6
75°	312.6	318.9	404.6	697.0	921.3	741.1	700.8	3162.3	6430.5	7578.7
77.5°	191.6	194.1	260.9	476.4	689.4	564.7	451.2	1339.8	2488.0	2442.6
80°	108.4	108.4	166.4	296.2	470.1	364.3	316.4	569.7	787.7	692.0
82.5°	60.5	61.8	121.0	184.0	311.3	215.5	173.9	263.4	340.3	301.2
85°	25.2	27.7	74.4	87.0	148.7	107.1	70.6	110.9	126.0	112.2
87.5°	2.5	3.8	22.7	16.4	17.6	21.4	10.1	21.4	17.6	17.6
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°
2900.2	0°	2900.2	2900.2	2900.2	2900.2	2900.2	2900.2	2900.2	2900.2	2900.2	2900.2
2943.0	2.5°	2919.1	2900.2	2852.3	2796.8	2723.7	2688.4	2640.5	2607.7	2580.0	2582.5
3016.1	5°	2975.8	2927.9	2820.7	2687.1	2520.8	2402.3	2276.3	2189.3	2118.7	2103.6
3116.9	7.5°	3053.9	2978.3	2790.5	2549.8	2268.7	2055.7	1865.4	1743.1	1656.1	1628.4
3239.2	10°	3154.8	3045.1	2751.4	2377.1	1972.5	1701.5	1497.3	1401.6	1342.3	1322.1
3382.9	12.5°	3272.0	3122.0	2699.8	2166.6	1667.5	1406.6	1276.8	1228.9	1210.0	1203.7
3559.3	15°	3419.4	3217.8	2621.6	1917.0	1409.1	1226.4	1170.9	1164.6	1167.1	1164.6
3771.1	17.5°	3594.6	3322.4	2494.3	1659.9	1235.2	1134.3	1114.2	1119.2	1125.5	1124.3
4008.0	20°	3786.2	3425.7	2331.7	1431.8	1116.7	1068.8	1057.5	1062.5	1067.5	1065.0
4281.5	22.5°	4004.3	3536.6	2151.5	1254.1	1037.3	1008.3	995.7	997.0	997.0	991.9
4628.1	25°	4265.2	3658.9	1962.4	1128.0	976.8	954.1	939.0	933.9	926.4	911.3
5049.1	27.5°	4576.5	3788.7	1780.9	1039.8	928.9	907.5	889.8	877.2	858.3	833.1
5554.5	30°	4926.9	3946.3	1627.2	984.4	891.1	869.7	849.5	830.6	802.9	771.4
6135.6	32.5°	5339.0	4115.2	1515.0	947.8	857.1	834.4	810.4	787.7	757.5	726.0
6788.4	35°	5830.6	4319.3	1449.4	922.6	830.6	800.3	773.9	748.7	726.0	698.3
7498.0	37.5°	6363.7	4536.1	1429.3	910.0	812.9	766.3	736.1	718.4	715.9	699.5
8265.6	40°	6947.3	4793.3	1444.4	902.4	794.0	733.5	700.8	697.0	703.3	674.3
9086.1	42.5°	7564.8	5098.3	1469.6	893.6	767.6	700.8	669.3	669.3	664.2	623.9
9953.3	45°	8232.9	5449.9	1494.8	872.2	736.1	668.0	644.1	635.2	613.8	574.7
10825.5	47.5°	8905.9	5807.9	1513.7	833.1	698.3	640.3	618.9	598.7	567.2	531.9
11681.3	50°	9544.9	6129.3	1493.6	775.1	655.4	613.8	591.1	563.4	529.4	505.4
12491.7	52.5°	10115.9	6407.8	1407.9	707.1	610.0	586.1	565.9	536.9	509.2	484.0
13222.7	55°	10612.5	6633.4	1256.6	642.8	569.7	562.1	542.0	505.4	467.6	446.2
13947.4	57.5°	11088.9	6804.8	1067.5	589.9	533.1	535.7	505.4	472.6	437.4	414.7
14924.2	60°	11722.9	7034.2	876.0	540.7	494.1	501.6	468.9	444.9	400.8	371.8
16599.3	62.5°	12736.2	7390.9	695.7	480.2	448.7	451.2	437.4	408.4	355.4	321.4
17840.8	65°	13540.3	7259.8	548.3	414.7	397.0	400.8	400.8	369.3	312.6	273.5
17907.6	67.5°	13449.6	6216.2	437.4	350.4	347.9	350.4	359.2	332.7	277.3	245.8
16543.8	70°	12389.6	4944.5	350.4	291.1	302.5	296.2	321.4	303.8	249.6	218.0
12825.7	72.5°	10109.6	3561.9	267.2	240.7	231.9	242.0	289.9	273.5	208.0	172.7
6793.5	75°	5907.4	1900.7	199.1	190.3	167.6	201.7	257.1	233.2	158.8	127.3
2082.2	77.5°	1923.4	663.0	146.2	139.9	124.8	162.6	219.3	196.6	129.8	100.8
610.0	80°	515.5	200.4	99.6	92.0	80.7	121.0	173.9	156.3	93.3	65.5
262.2	82.5°	206.7	84.4	58.0	51.7	44.1	83.2	137.4	126.0	69.3	41.6
81.9	85°	66.8	27.7	21.4	16.4	20.2	51.7	81.9	85.7	49.2	21.4
12.6	87.5°	8.8	3.8	3.8	5.0	3.8	8.8	25.2	23.9	13.9	2.5
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

180°
2900.2
2557.3
2069.6
1600.7
1307.0
1199.9
1163.3
1121.7
1063.8
989.4
908.7
830.6
768.8
727.2
695.7
698.3
675.6
623.9
573.5
530.6
501.6
481.5
443.7
412.1
368.0
318.9
269.7
240.7
214.3
168.9
123.5
97.0
64.3
41.6
16.4
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