

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: P941024

Luminaire Tested: **GALN-SB4B-840-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941024
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-SB4B-840-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 4000K, 450mA 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: 15763 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

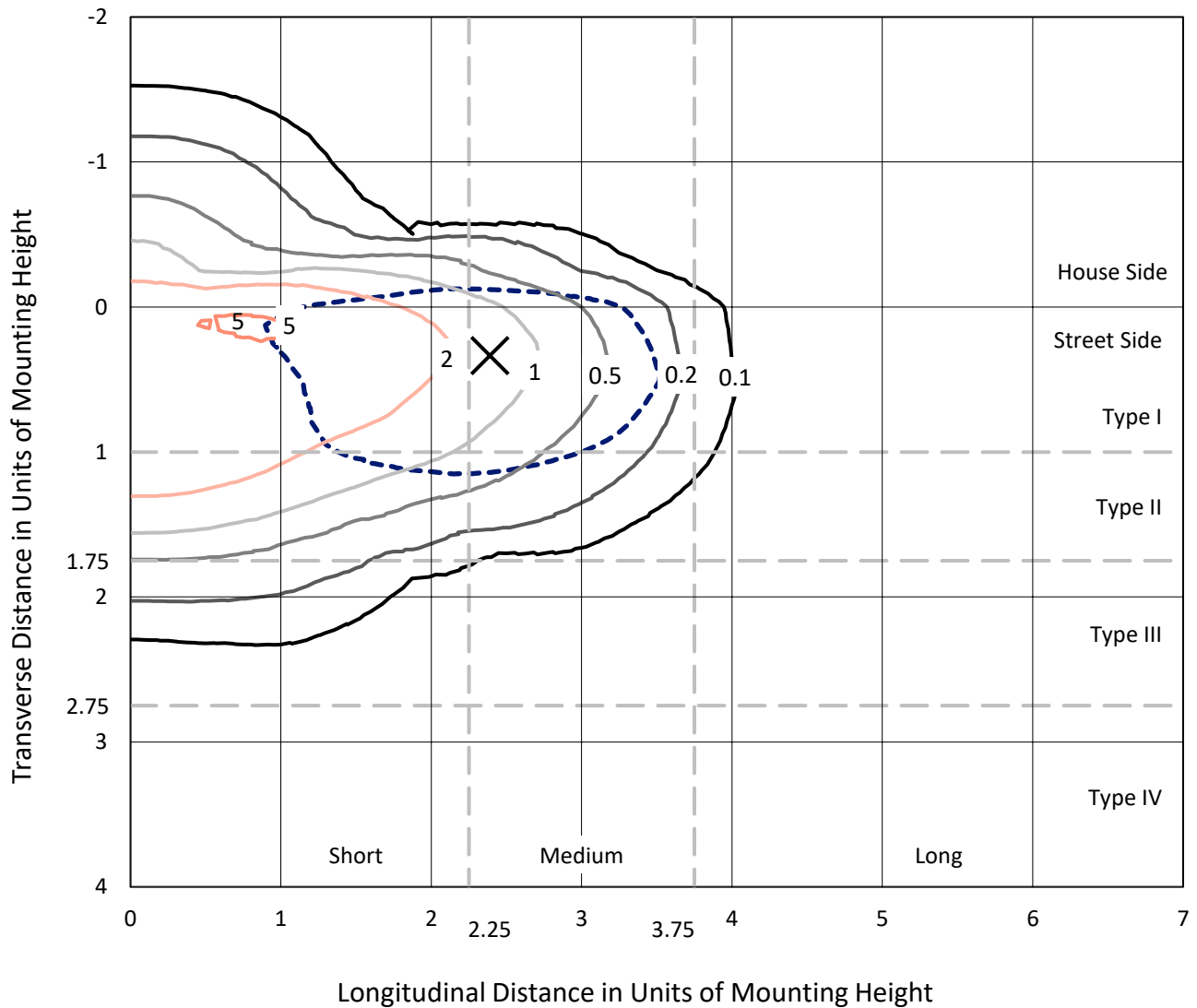
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

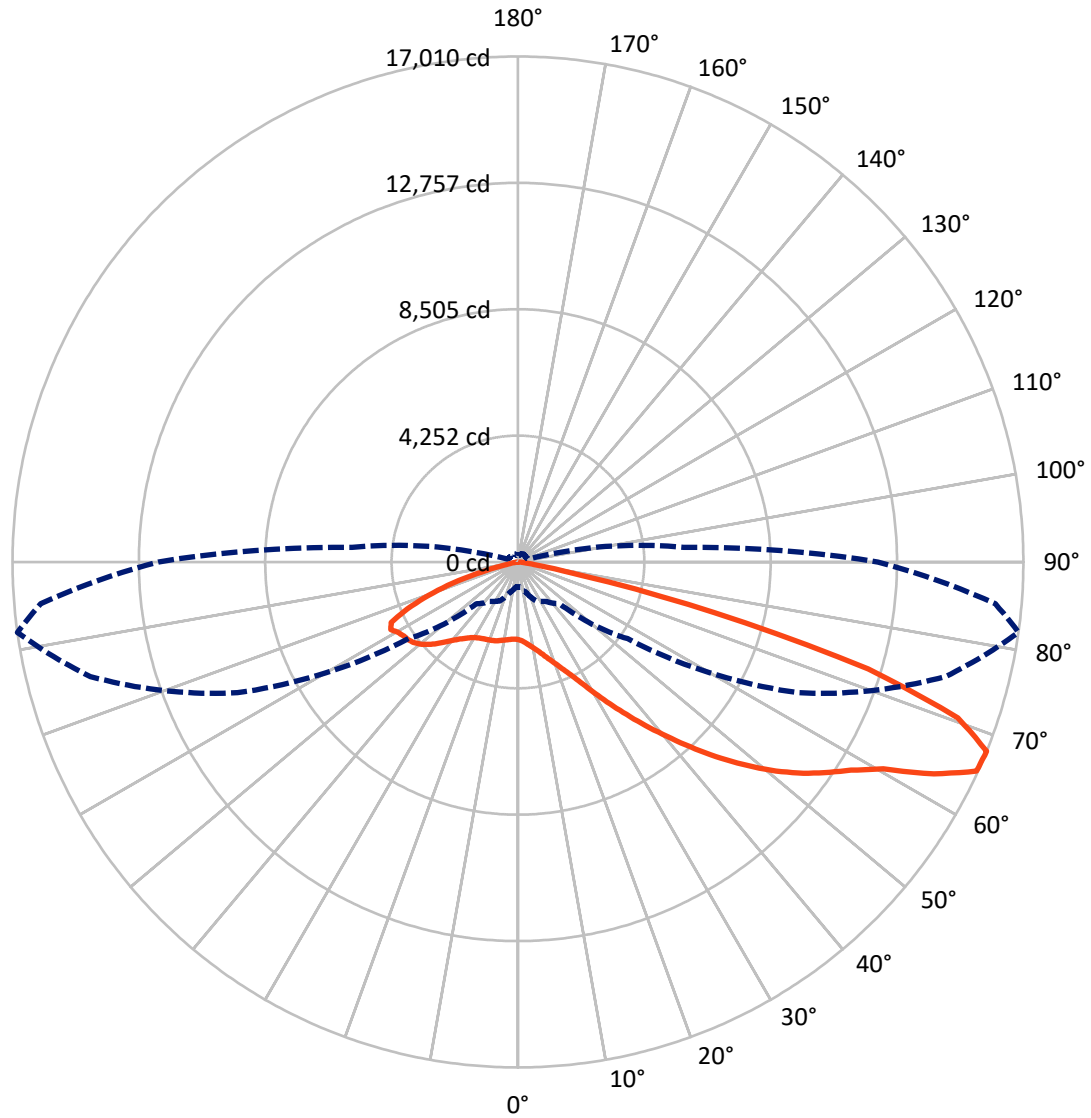
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	2855.3	0.0	2855.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	12907.7	0.0	12907.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	15763.0	0.0	15763.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.7	1.5
10°-20°	604.6	3.8
20°-30°	968.3	6.1
30°-40°	1712.3	10.9
40°-50°	3000.2	19.0
50°-60°	4001.4	25.4
60°-70°	3725.1	23.6
70°-80°	1429.7	9.1
80°-90°	88.8	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°	15763.0	100.0
0°-180°	15763.0	100.0

Coefficient of Utilization



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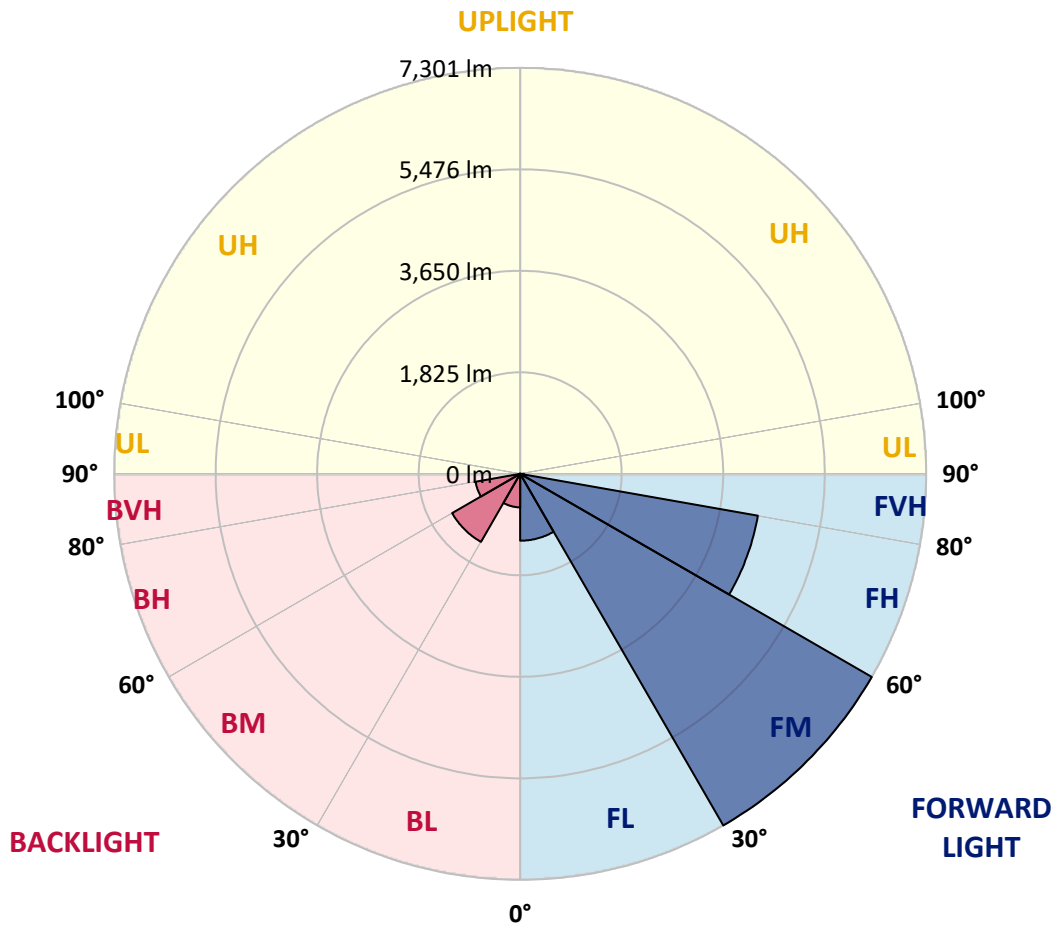
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1202.5	7.6			
FM (30°-60°)	7300.8	46.3			
FH (60°-80°)	4339.8	27.5			G2/5000
FVH (80°-90°)	64.6	0.4			G1/100
BL (0°-30°)	603.0	3.8	B2/1000		
BM (30°-60°)	1413.1	9.0	B2/2500		
BH (60°-80°)	815.0	5.2	B2/1000		G2/1000
BVH (80°-90°)	24.2	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°	2611.4	2611.4	2611.4	2611.4	2611.4	2611.4	2611.4	2611.4	2611.4	2611.4
2.5°	2760.1	2776.0	2766.9	2762.3	2754.4	2743.0	2734.0	2705.6	2676.1	2656.8
5°	2815.7	2831.6	2830.4	2835.0	2840.6	2844.0	2841.8	2810.0	2768.0	2735.1
7.5°	2768.0	2786.2	2800.9	2823.6	2863.3	2905.3	2925.8	2919.0	2875.8	2830.4
10°	2633.0	2652.3	2687.4	2740.8	2824.8	2915.5	2991.6	3026.8	2999.5	2949.6
12.5°	2385.6	2404.8	2474.1	2589.8	2730.6	2888.3	3033.6	3127.8	3134.6	3084.6
15°	2107.5	2126.8	2200.6	2345.8	2560.3	2813.4	3056.3	3234.5	3294.6	3251.5
17.5°	1935.0	1952.0	2007.6	2124.5	2348.1	2663.6	3048.3	3347.9	3485.3	3451.2
20°	1882.8	1897.5	1923.6	2005.4	2191.5	2508.1	2996.1	3454.6	3690.7	3671.4
22.5°	1938.4	1952.0	1960.0	1996.3	2113.2	2406.0	2930.3	3563.6	3929.0	3931.3
25°	2066.6	2080.3	2071.2	2093.9	2145.0	2374.2	2905.3	3691.8	4228.6	4253.6
27.5°	2277.7	2278.9	2257.3	2256.2	2264.1	2421.9	2931.4	3829.1	4606.5	4653.1
30°	2701.1	2684.0	2601.2	2511.5	2470.7	2564.9	3004.1	3991.4	5052.6	5135.4
32.5°	3353.6	3328.6	3176.6	2962.1	2746.4	2795.2	3134.6	4176.4	5538.3	5688.1
35°	4061.8	4055.0	3896.1	3577.2	3200.4	3123.2	3346.8	4419.3	6068.3	6306.6
37.5°	4720.0	4716.6	4625.8	4250.2	3791.7	3580.6	3687.3	4737.1	6635.7	6980.7
40°	5321.5	5331.7	5240.9	4905.0	4443.1	4167.3	4150.3	5129.7	7266.7	7715.0
42.5°	5841.3	5852.7	5760.7	5512.2	5086.6	4816.5	4718.9	5610.9	7883.0	8503.8
45°	6194.3	6264.6	6251.0	6052.4	5747.1	5466.8	5402.1	6214.7	8585.5	9340.2
47.5°	6294.1	6358.8	6461.0	6488.2	6302.1	6026.3	6103.5	6942.2	9295.9	10177.7
50°	6047.9	6108.0	6320.2	6602.8	6732.2	6647.1	6785.5	7721.8	10023.4	11013.0
52.5°	5562.1	5623.4	5891.2	6338.4	6866.1	7134.0	7469.9	8490.2	10728.2	11804.1
55°	4859.6	4924.3	5268.2	5774.4	6610.8	7334.8	8040.7	9257.3	11373.9	12515.6
57.5°	3904.0	3951.7	4309.2	5017.4	5968.4	7135.1	8461.8	10094.9	11982.2	13214.7
60°	2544.4	2586.4	3001.8	3791.7	4903.9	6467.8	8545.8	11028.9	12790.3	14123.8
62.5°	1692.1	1720.5	1966.8	2546.7	3453.5	5186.5	8054.4	11774.5	13975.1	15705.8
65°	1161.0	1189.4	1435.6	1839.7	2231.2	3430.8	6641.4	11675.8	15048.7	16962.2
67.5°	828.5	852.3	1061.1	1442.5	1615.0	1992.9	4502.1	10413.8	14894.4	17009.8
70°	593.6	607.2	779.7	1123.5	1283.6	1197.3	2503.6	7964.7	13041.1	15707.0
72.5°	415.4	419.9	541.3	855.7	1033.9	873.9	1191.6	5310.2	9863.4	12328.4
75°	281.5	287.1	364.3	627.6	829.6	667.3	631.0	2847.5	5790.2	6824.1
77.5°	172.5	174.8	234.9	429.0	620.8	508.4	406.3	1206.4	2240.3	2199.4
80°	97.6	97.6	149.8	266.7	423.3	328.0	284.9	513.0	709.3	623.1
82.5°	54.5	55.6	109.0	165.7	280.3	194.1	156.6	237.2	306.4	271.2
85°	22.7	25.0	67.0	78.3	133.9	96.5	63.6	99.9	113.5	101.0
87.5°	2.3	3.4	20.4	14.8	15.9	19.3	9.1	19.3	15.9	15.9
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°
2611.4	0°	2611.4	2611.4	2611.4	2611.4	2611.4	2611.4	2611.4	2611.4	2611.4	2611.4
2650.0	2.5°	2628.4	2611.4	2568.3	2518.3	2452.5	2420.7	2377.6	2348.1	2323.1	2325.4
2715.8	5°	2679.5	2636.4	2539.9	2419.6	2269.8	2163.1	2049.6	1971.3	1907.8	1894.1
2806.6	7.5°	2749.9	2681.8	2512.7	2295.9	2042.8	1851.0	1679.6	1569.6	1491.3	1466.3
2916.7	10°	2840.6	2741.9	2477.5	2140.4	1776.1	1532.1	1348.3	1262.0	1208.7	1190.5
3046.1	12.5°	2946.2	2811.1	2430.9	1950.9	1501.5	1266.5	1149.6	1106.5	1089.5	1083.8
3204.9	15°	3079.0	2897.4	2360.6	1726.2	1268.8	1104.3	1054.3	1048.6	1050.9	1048.6
3395.6	17.5°	3236.7	2991.6	2246.0	1494.7	1112.2	1021.4	1003.2	1007.8	1013.5	1012.3
3609.0	20°	3409.2	3084.6	2099.6	1289.2	1005.5	962.4	952.2	956.7	961.3	959.0
3855.2	22.5°	3605.6	3184.5	1937.3	1129.2	934.0	907.9	896.6	897.7	897.7	893.2
4167.3	25°	3840.5	3294.6	1767.0	1015.7	879.5	859.1	845.5	841.0	834.1	820.5
4546.4	27.5°	4120.8	3411.5	1603.6	936.3	836.4	817.1	801.2	789.9	772.9	750.2
5001.5	30°	4436.3	3553.4	1465.2	886.4	802.4	783.1	764.9	747.9	722.9	694.6
5524.7	32.5°	4807.4	3705.4	1364.1	853.4	771.7	751.3	729.7	709.3	682.1	653.7
6112.5	35°	5250.0	3889.3	1305.1	830.7	747.9	720.7	696.8	674.1	653.7	628.7
6751.5	37.5°	5730.1	4084.5	1287.0	819.4	732.0	690.0	662.8	646.9	644.6	629.9
7442.6	40°	6255.5	4316.0	1300.6	812.6	715.0	660.5	631.0	627.6	633.3	607.2
8181.5	42.5°	6811.6	4590.7	1323.3	804.6	691.2	631.0	602.6	602.6	598.1	561.8
8962.3	45°	7413.1	4907.3	1346.0	785.3	662.8	601.5	579.9	572.0	552.7	517.5
9747.6	47.5°	8019.2	5229.6	1363.0	750.2	628.7	576.5	557.2	539.1	510.7	478.9
10518.2	50°	8594.6	5519.0	1344.9	698.0	590.1	552.7	532.3	507.3	476.7	455.1
11248.0	52.5°	9108.7	5769.8	1267.7	636.7	549.3	527.7	509.6	483.5	458.5	435.8
11906.2	55°	9555.8	5973.0	1131.5	578.8	513.0	506.2	488.0	455.1	421.0	401.8
12558.8	57.5°	9984.8	6127.3	961.3	531.1	480.1	482.3	455.1	425.6	393.8	373.4
13438.3	60°	10555.7	6333.9	788.8	486.9	444.9	451.7	422.2	400.6	360.9	334.8
14946.6	62.5°	11468.1	6655.0	626.5	432.4	404.0	406.3	393.8	367.7	320.0	289.4
16064.5	65°	12192.2	6537.0	493.7	373.4	357.5	360.9	360.9	332.5	281.5	246.3
16124.6	67.5°	12110.5	5597.3	393.8	315.5	313.2	315.5	323.4	299.6	249.7	221.3
14896.6	70°	11156.0	4452.2	315.5	262.2	272.4	266.7	289.4	273.5	224.7	196.3
11548.7	72.5°	9103.0	3207.2	240.6	216.8	208.8	217.9	261.0	246.3	187.3	155.5
6117.1	75°	5319.3	1711.4	179.3	171.4	150.9	181.6	231.5	210.0	143.0	114.6
1874.8	77.5°	1731.9	597.0	131.6	126.0	112.4	146.4	197.5	177.0	116.9	90.8
549.3	80°	464.2	180.4	89.7	82.8	72.6	109.0	156.6	140.7	84.0	59.0
236.1	82.5°	186.1	76.0	52.2	46.5	39.7	74.9	123.7	113.5	62.4	37.5
73.8	85°	60.1	25.0	19.3	14.8	18.2	46.5	73.8	77.2	44.3	19.3
11.3	87.5°	7.9	3.4	3.4	4.5	3.4	7.9	22.7	21.6	12.5	2.3
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>
2611.4
2302.7
1863.5
1441.3
1176.9
1080.4
1047.5
1010.1
957.9
890.9
818.3
747.9
692.3
654.8
626.5
628.7
608.3
561.8
516.4
477.8
451.7
433.5
399.5
371.1
331.4
287.1
242.9
216.8
192.9
152.1
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87.4
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