

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: P940974

Luminaire Tested: **GALN-SB4B-750-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940974
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-750-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 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: 17435 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

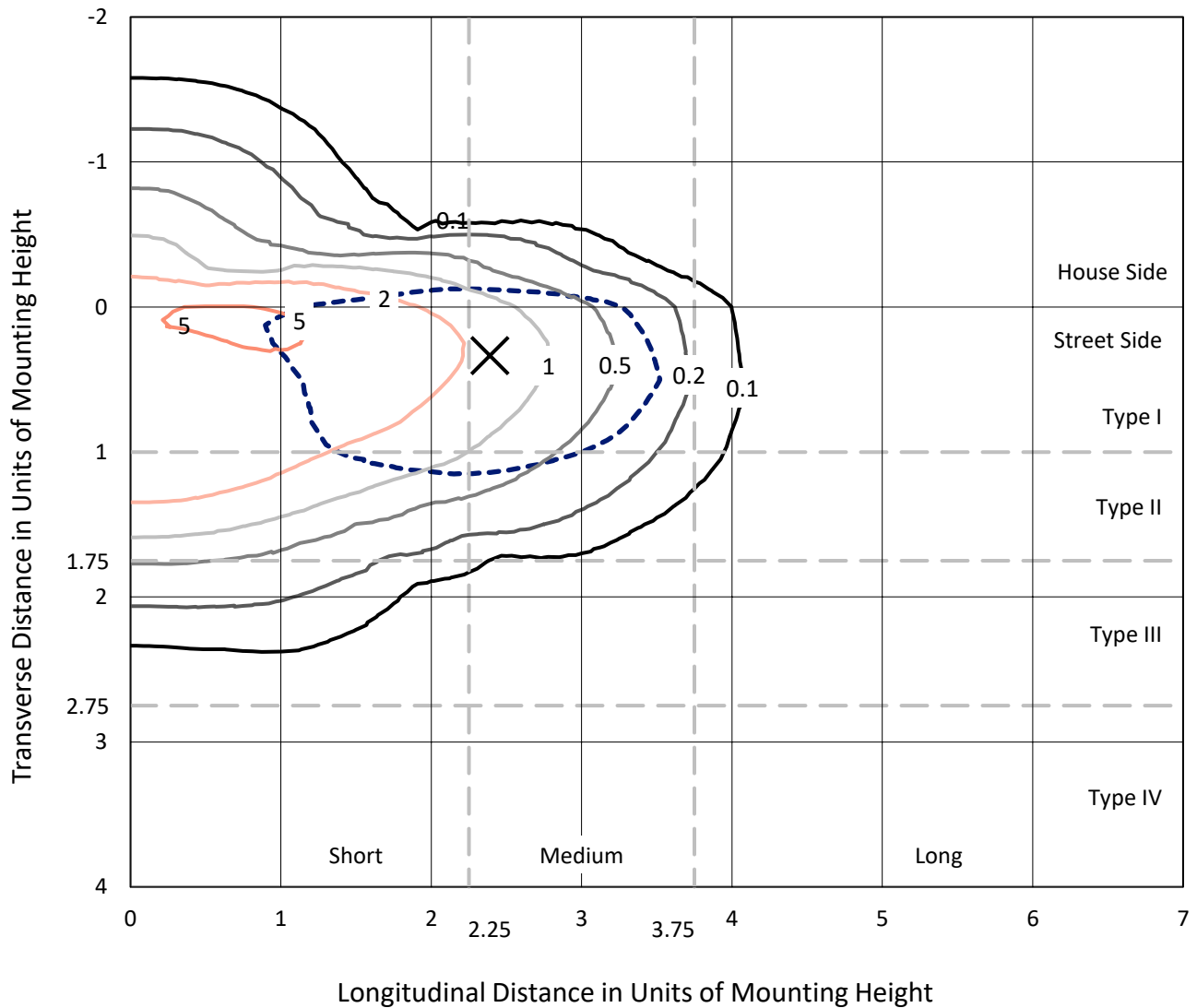
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

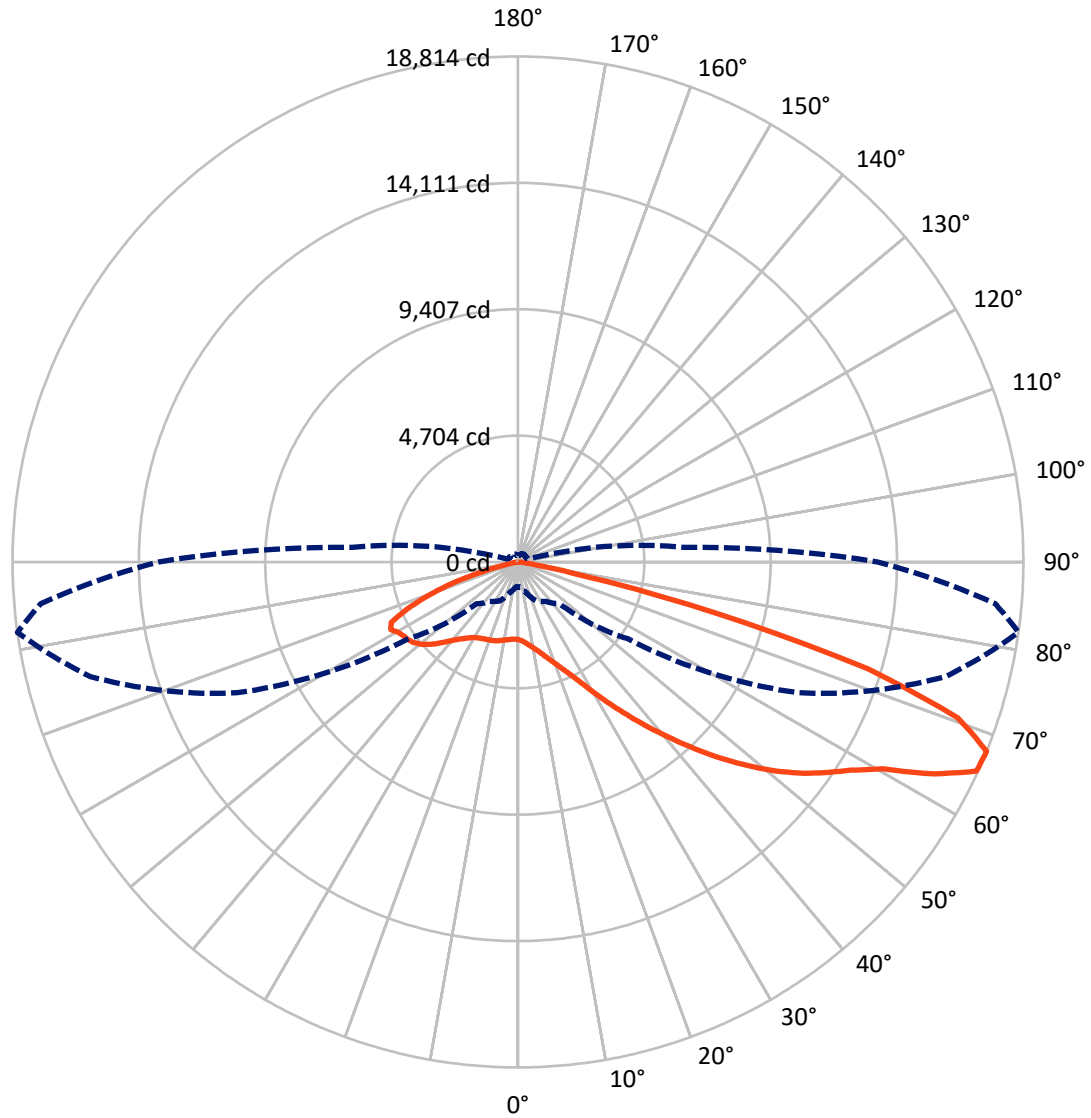
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	3158.2	0.0	3158.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	14276.8	0.0	14276.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	17435.0	0.0	17435.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.3	1.5
10°-20°	668.7	3.8
20°-30°	1071.1	6.1
30°-40°	1894.0	10.9
40°-50°	3318.4	19.0
50°-60°	4425.8	25.4
60°-70°	4120.2	23.6
70°-80°	1581.3	9.1
80°-90°	98.2	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°	17435.0	100.0
0°-180°	17435.0	100.0

Coefficient of Utilization



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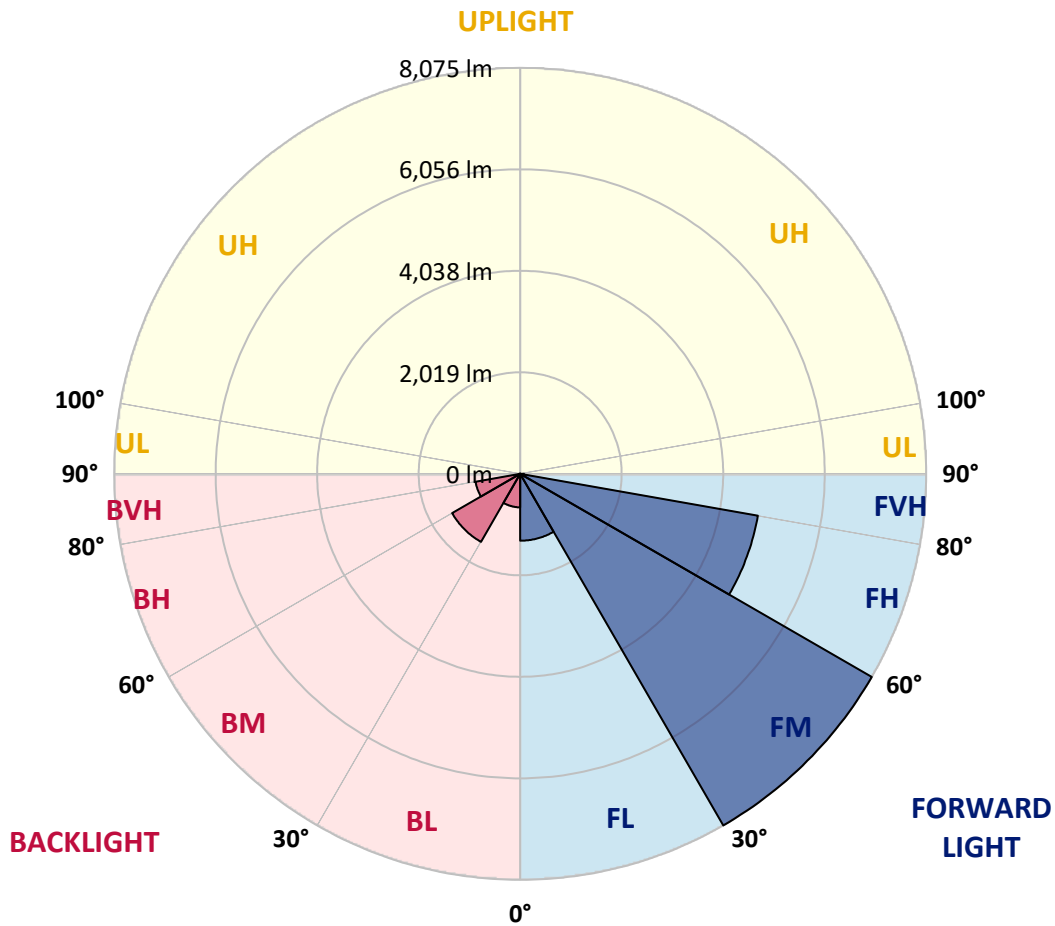
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1330.1	7.6			
FM (30°-60°)	8075.2	46.3			
FH (60°-80°)	4800.1	27.5			G2/5000
FVH (80°-90°)	71.4	0.4			G1/100
BL (0°-30°)	667.0	3.8	B2/1000		
BM (30°-60°)	1563.0	9.0	B2/2500		
BH (60°-80°)	901.4	5.2	B2/1000		G2/1000
BVH (80°-90°)	26.8	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°	2888.4	2888.4	2888.4	2888.4	2888.4	2888.4	2888.4	2888.4	2888.4	2888.4
2.5°	3052.8	3070.4	3060.4	3055.3	3046.6	3034.0	3024.0	2992.6	2959.9	2938.6
5°	3114.3	3131.9	3130.7	3135.7	3142.0	3145.7	3143.2	3108.1	3061.6	3025.2
7.5°	3061.6	3081.7	3098.0	3123.1	3167.1	3213.5	3236.1	3228.6	3180.9	3130.7
10°	2912.2	2933.6	2972.5	3031.5	3124.4	3224.8	3308.9	3347.8	3317.7	3262.5
12.5°	2638.6	2659.9	2736.5	2864.5	3020.2	3194.7	3355.4	3459.5	3467.1	3411.8
15°	2331.0	2352.4	2434.0	2594.7	2831.9	3111.8	3380.5	3577.5	3644.1	3596.4
17.5°	2140.2	2159.1	2220.6	2349.9	2597.2	2946.1	3371.7	3703.1	3855.0	3817.3
20°	2082.5	2098.8	2127.7	2218.1	2423.9	2774.2	3313.9	3821.1	4082.2	4060.8
22.5°	2144.0	2159.1	2167.9	2208.0	2337.3	2661.2	3241.1	3941.6	4345.8	4348.3
25°	2285.9	2300.9	2290.9	2316.0	2372.5	2626.0	3213.5	4083.4	4677.2	4704.8
27.5°	2519.3	2520.6	2496.7	2495.5	2504.3	2678.8	3242.4	4235.3	5095.2	5146.6
30°	2987.6	2968.7	2877.1	2777.9	2732.7	2836.9	3322.7	4414.8	5588.5	5680.1
32.5°	3709.3	3681.7	3513.5	3276.3	3037.8	3091.7	3467.1	4619.4	6125.7	6291.4
35°	4492.6	4485.1	4309.4	3956.6	3539.9	3454.5	3701.8	4888.0	6712.0	6975.6
37.5°	5220.7	5216.9	5116.5	4701.0	4193.9	3960.4	4078.4	5239.5	7339.6	7721.2
40°	5886.0	5897.3	5796.9	5425.3	4914.4	4609.4	4590.5	5673.8	8037.5	8533.4
42.5°	6460.9	6473.5	6371.8	6096.9	5626.1	5327.4	5219.4	6206.1	8719.1	9405.8
45°	6851.3	6929.1	6914.1	6694.4	6356.7	6046.7	5975.1	6873.9	9496.2	10330.9
47.5°	6961.8	7033.3	7146.3	7176.4	6970.5	6665.5	6750.9	7678.5	10282.0	11257.3
50°	6689.4	6755.9	6990.6	7303.2	7446.3	7352.2	7505.3	8540.9	11086.6	12181.2
52.5°	6152.1	6219.9	6516.1	7010.7	7594.4	7890.7	8262.2	9390.7	11866.1	13056.1
55°	5375.1	5446.6	5827.0	6386.8	7312.0	8112.8	8893.6	10239.3	12580.4	13843.2
57.5°	4318.1	4370.9	4766.3	5549.6	6601.5	7891.9	9359.3	11165.7	13253.2	14616.4
60°	2814.3	2860.8	3320.2	4193.9	5424.0	7153.8	9452.2	12198.8	14147.0	15621.9
62.5°	1871.6	1903.0	2175.4	2816.8	3819.8	5736.6	8908.7	13023.5	15457.5	17371.8
65°	1284.1	1315.5	1587.9	2034.8	2467.9	3794.7	7345.9	12914.3	16645.0	18761.4
67.5°	916.4	942.7	1173.7	1595.5	1786.3	2204.3	4979.7	11518.4	16474.2	18814.1
70°	656.5	671.6	862.4	1242.7	1419.7	1324.3	2769.1	8809.5	14424.4	17373.0
72.5°	459.4	464.5	598.8	946.5	1143.6	966.6	1318.0	5873.4	10909.6	13636.1
75°	311.3	317.6	402.9	694.2	917.6	738.1	697.9	3149.5	6404.4	7548.0
77.5°	190.8	193.3	259.8	474.5	686.6	562.4	449.4	1334.4	2477.9	2432.7
80°	108.0	108.0	165.7	295.0	468.2	362.8	315.1	567.4	784.5	689.1
82.5°	60.3	61.5	120.5	183.3	310.1	214.7	173.2	262.4	338.9	300.0
85°	25.1	27.6	74.1	86.6	148.1	106.7	70.3	110.5	125.5	111.7
87.5°	2.5	3.8	22.6	16.3	17.6	21.3	10.0	21.3	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°
2888.4	0°	2888.4	2888.4	2888.4	2888.4	2888.4	2888.4	2888.4	2888.4	2888.4	2888.4
2931.1	2.5°	2907.2	2888.4	2840.7	2785.5	2712.7	2677.5	2629.8	2597.2	2569.5	2572.1
3003.9	5°	2963.7	2916.0	2809.3	2676.2	2510.6	2392.6	2267.0	2180.4	2110.1	2095.1
3104.3	7.5°	3041.5	2966.2	2779.2	2539.4	2259.5	2047.4	1857.8	1736.0	1649.4	1621.8
3226.1	10°	3142.0	3032.7	2740.3	2367.5	1964.5	1694.6	1491.3	1395.9	1336.9	1316.8
3369.2	12.5°	3258.7	3109.3	2688.8	2157.8	1660.7	1400.9	1271.6	1223.9	1205.1	1198.8
3544.9	15°	3405.6	3204.7	2611.0	1909.3	1403.4	1221.4	1166.2	1159.9	1162.4	1159.9
3755.8	17.5°	3580.0	3308.9	2484.2	1653.2	1230.2	1129.7	1109.7	1114.7	1121.0	1119.7
3991.8	20°	3770.8	3411.8	2322.3	1426.0	1112.2	1064.5	1053.2	1058.2	1063.2	1060.7
4264.2	22.5°	3988.0	3522.3	2142.8	1249.0	1033.1	1004.2	991.7	992.9	992.9	987.9
4609.4	25°	4247.9	3644.1	1954.5	1123.5	972.8	950.2	935.2	930.2	922.6	907.6
5028.6	27.5°	4557.9	3773.4	1773.7	1035.6	925.1	903.8	886.2	873.7	854.8	829.7
5532.0	30°	4906.9	3930.3	1620.6	980.4	887.5	866.1	846.1	827.2	799.6	768.2
6110.7	32.5°	5317.3	4098.5	1508.8	944.0	853.6	831.0	807.1	784.5	754.4	723.0
6760.9	35°	5806.9	4301.8	1443.6	918.9	827.2	797.1	770.7	745.6	723.0	695.4
7467.6	37.5°	6337.9	4517.7	1423.5	906.3	809.7	763.2	733.1	715.5	713.0	696.7
8232.1	40°	6919.1	4773.8	1438.5	898.8	790.8	730.6	697.9	694.2	700.4	671.6
9049.3	42.5°	7534.2	5077.6	1463.7	890.0	764.5	697.9	666.6	666.6	661.5	621.4
9912.9	45°	8199.5	5427.8	1488.8	868.7	733.1	665.3	641.4	632.7	611.3	572.4
10781.6	47.5°	8869.8	5784.3	1507.6	829.7	695.4	637.7	616.3	596.3	564.9	529.7
11633.9	50°	9506.2	6104.4	1487.5	772.0	652.7	611.3	588.7	561.1	527.2	503.4
12441.0	52.5°	10074.8	6381.8	1402.1	704.2	607.6	583.7	563.6	534.7	507.1	482.0
13169.1	55°	10569.4	6606.5	1251.5	640.2	567.4	559.9	539.8	503.4	465.7	444.4
13890.9	57.5°	11043.9	6777.2	1063.2	587.5	531.0	533.5	503.4	470.7	435.6	413.0
14863.7	60°	11675.3	7005.7	872.4	538.5	492.1	499.6	467.0	443.1	399.2	370.3
16532.0	62.5°	12684.6	7360.9	692.9	478.3	446.9	449.4	435.6	406.7	354.0	320.1
17768.4	65°	13485.4	7230.4	546.0	413.0	395.4	399.2	399.2	367.8	311.3	272.4
17835.0	67.5°	13395.0	6191.0	435.6	349.0	346.5	349.0	357.8	331.4	276.2	244.8
16476.7	70°	12339.4	4924.4	349.0	290.0	301.3	295.0	320.1	302.5	248.5	217.2
12773.7	72.5°	10068.6	3547.4	266.1	239.8	231.0	241.0	288.7	272.4	207.1	172.0
6765.9	75°	5883.5	1893.0	198.3	189.5	167.0	200.8	256.1	232.2	158.2	126.8
2073.7	77.5°	1915.6	660.3	145.6	139.3	124.3	161.9	218.4	195.8	129.3	100.4
607.6	80°	513.4	199.6	99.2	91.6	80.3	120.5	173.2	155.7	92.9	65.3
261.1	82.5°	205.9	84.1	57.7	51.5	43.9	82.8	136.8	125.5	69.0	41.4
81.6	85°	66.5	27.6	21.3	16.3	20.1	51.5	81.6	85.4	49.0	21.3
12.6	87.5°	8.8	3.8	3.8	5.0	3.8	8.8	25.1	23.9	13.8	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

<u>180°</u>
2888.4
2547.0
2061.2
1594.2
1301.7
1195.0
1158.6
1117.2
1059.5
985.4
905.1
827.2
765.7
724.3
692.9
695.4
672.8
621.4
571.2
528.5
499.6
479.5
441.9
410.5
366.5
317.6
268.6
239.8
213.4
168.2
123.0
96.7
64.0
41.4
16.3
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