

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: P941146

Luminaire Tested: **GALN-SB4C-750-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941146
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-750-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24904 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

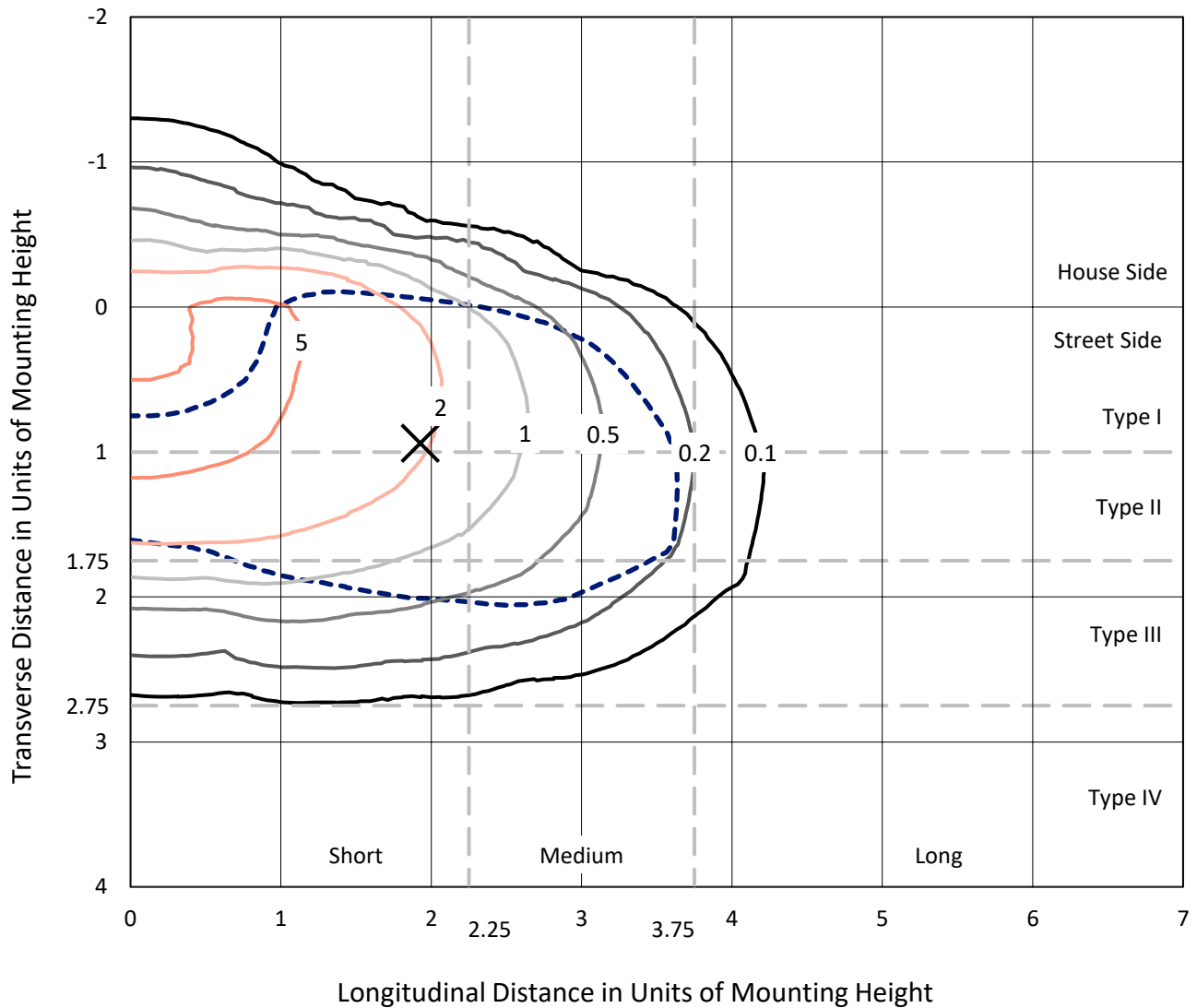
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

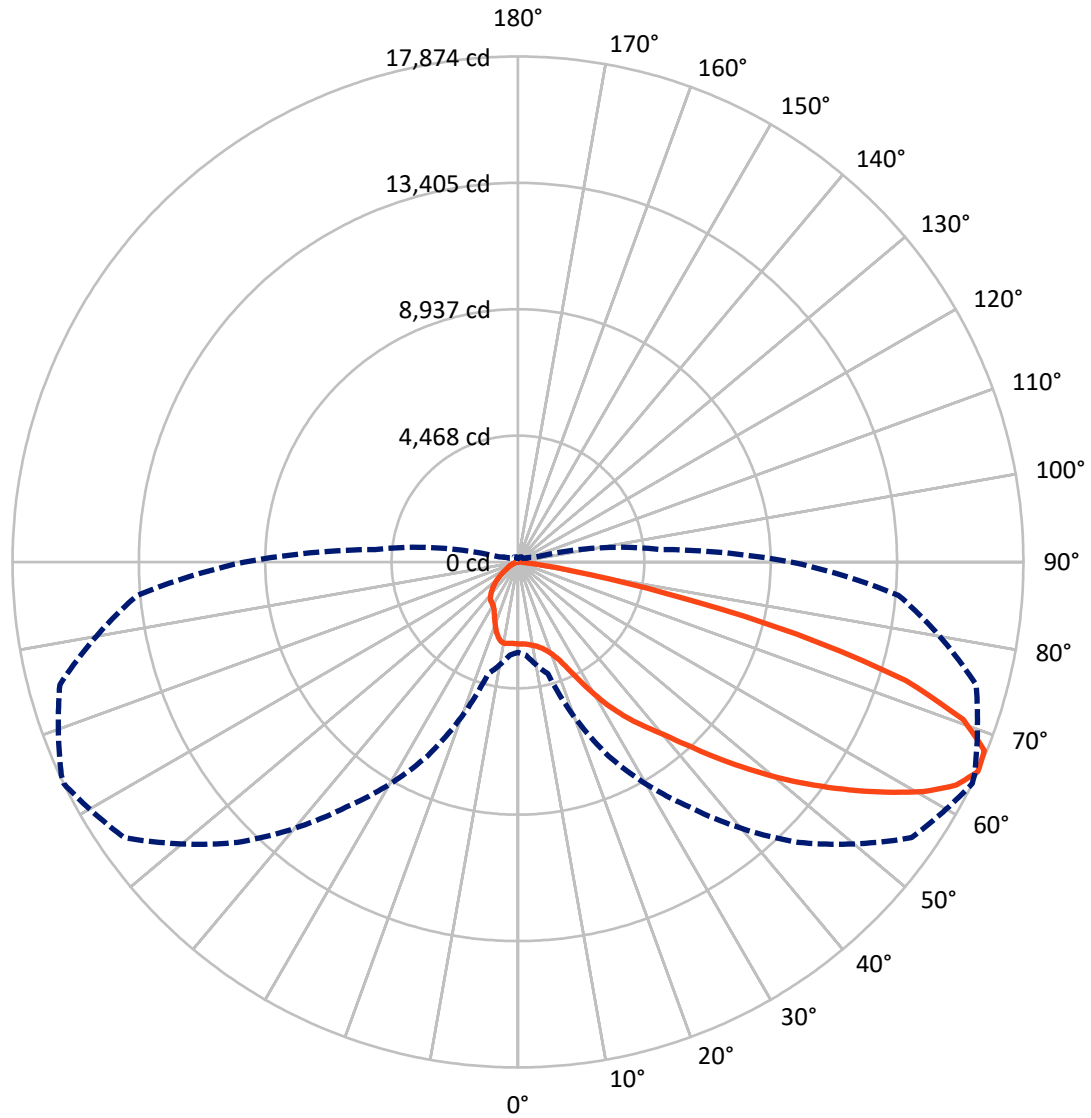
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3330.4	0.0	3330.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	21573.6	0.0	21573.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	24904.0	0.0	24904.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.2	1.1
10°-20°	724.8	2.9
20°-30°	1373.5	5.5
30°-40°	2779.3	11.2
40°-50°	4734.6	19.0
50°-60°	6438.6	25.9
60°-70°	6046.2	24.3
70°-80°	2422.4	9.7
80°-90°	117.4	0.5
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°	24904.0	100.0
0°-180°	24904.0	100.0

Coefficient of Utilization



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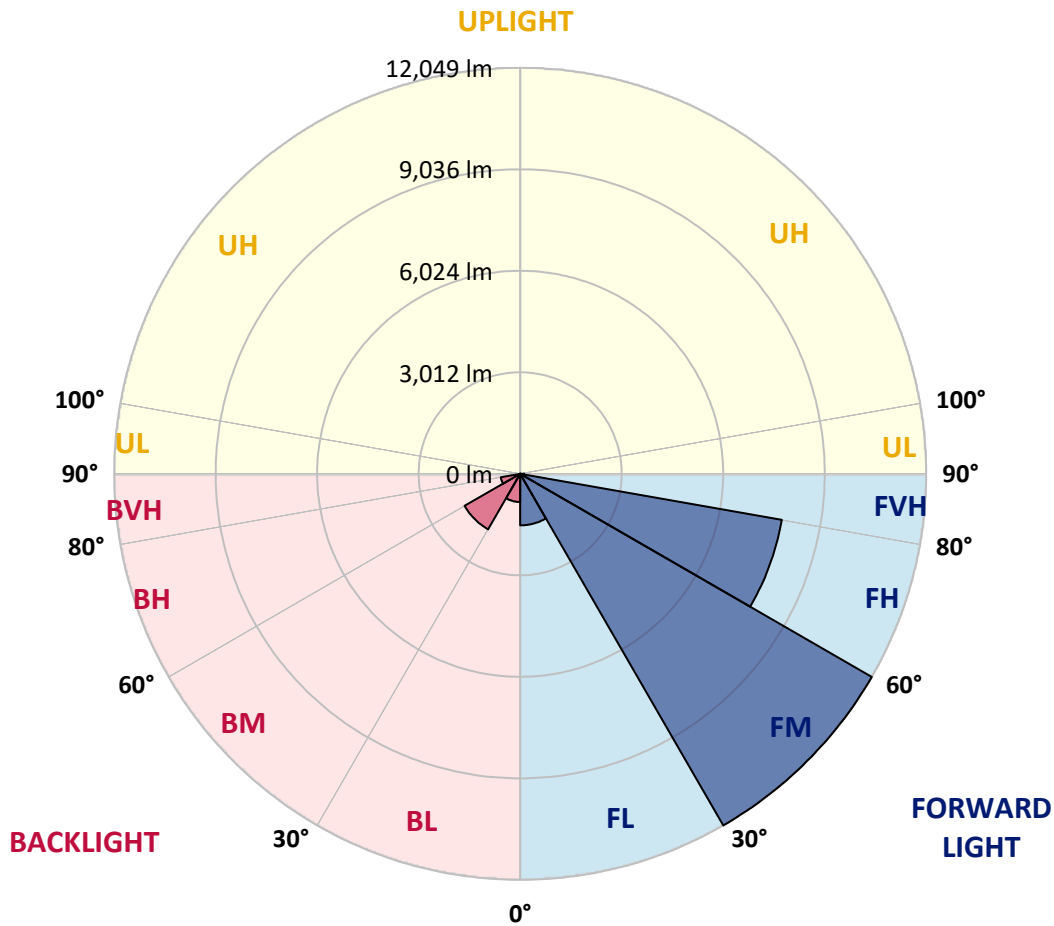
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1529.4	6.1			
FM (30°-60°)	12048.5	48.4			
FH (60°-80°)	7884.0	31.7			G4/12000
FVH (80°-90°)	111.6	0.4			G2/225
BL (0°-30°)	836.2	3.4	B2/1000		
BM (30°-60°)	1904.0	7.6	B2/2500		
BH (60°-80°)	584.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	2896.6	2896.6	2896.6	2896.6	2896.6	2896.6	2896.6	2896.6	2896.6	2896.6
2.5°	2886.6	2906.6	2901.6	2896.6	2894.9	2898.3	2899.9	2898.3	2898.3	2898.3
5°	2831.5	2848.2	2848.2	2859.9	2876.6	2896.6	2911.6	2915.0	2918.3	2923.3
7.5°	2726.3	2739.7	2749.7	2788.1	2829.8	2883.2	2928.3	2951.7	2955.0	2973.4
10°	2654.5	2671.2	2687.9	2728.0	2788.1	2868.2	2945.0	3001.8	3010.1	3053.5
12.5°	2651.2	2667.9	2689.6	2733.0	2803.1	2888.2	2981.7	3063.5	3078.6	3142.0
15°	2686.2	2706.3	2726.3	2779.7	2854.9	2958.4	3058.5	3160.4	3175.4	3265.6
17.5°	2758.0	2784.7	2799.8	2853.2	2933.3	3048.5	3180.4	3297.3	3310.6	3415.8
20°	2899.9	2931.7	2936.7	2980.1	3058.5	3182.1	3339.0	3484.3	3501.0	3621.2
22.5°	3193.8	3238.8	3198.8	3220.5	3290.6	3414.1	3584.4	3768.1	3791.4	3928.3
25°	3711.3	3774.8	3671.2	3634.5	3664.6	3793.1	4006.8	4238.9	4265.6	4375.8
27.5°	4728.0	4646.2	4489.3	4335.7	4245.6	4319.0	4559.4	4846.6	4880.0	4986.8
30°	5844.9	5773.2	5561.1	5220.5	5006.9	4995.2	5217.2	5537.8	5576.2	5678.0
32.5°	6963.5	6895.1	6664.7	6245.6	5875.0	5691.3	5844.9	6200.5	6220.6	6285.7
35°	8063.7	7993.6	7763.2	7334.1	6878.4	6461.0	6430.9	6831.6	6838.3	6906.7
37.5°	9170.6	9112.2	8866.7	8446.0	7996.9	7421.0	7142.1	7429.3	7437.7	7504.4
40°	9960.3	9985.3	9816.7	9491.1	9105.5	8476.1	7940.2	8065.4	8015.3	8127.2
42.5°	10638.1	10688.2	10541.3	10377.7	10153.9	9599.7	8928.5	8906.8	8826.7	8886.8
45°	11224.1	11265.8	11133.9	11095.5	11090.5	10701.5	10008.7	9878.5	9766.6	9754.9
47.5°	11439.5	11519.6	11576.4	11704.9	11955.3	11791.7	11125.6	10923.6	10798.4	10706.5
50°	11521.3	11606.4	11800.1	12174.0	12766.7	12836.8	12237.5	12010.4	11856.8	11689.9
52.5°	11411.1	11563.0	11823.4	12452.8	13312.6	13674.9	13304.3	13105.6	12930.3	12658.2
55°	10761.6	10913.6	11446.1	12449.5	13584.8	14262.6	14312.7	14224.2	14027.2	13598.1
57.5°	9392.6	9618.0	10461.1	12025.5	13579.8	14768.5	15301.0	15364.5	15144.1	14529.7
60°	7496.1	7801.6	8830.0	11085.5	13160.7	15042.3	16167.5	16484.7	16251.0	15447.9
62.5°	5230.6	5584.5	6557.8	9613.0	12202.4	14845.3	16800.2	17386.2	17209.3	16269.3
65°	3190.4	3304.0	4088.6	7564.5	10573.0	14020.5	16995.6	17873.7	17815.3	16771.9
67.5°	2125.3	2220.4	2445.8	5187.2	8207.3	12372.7	16528.1	17788.6	17805.3	16690.1
70°	1280.5	1362.3	1509.2	3016.8	5319.0	9793.3	15080.7	16703.4	16800.2	15596.5
72.5°	527.6	582.7	716.2	1367.3	2754.7	6215.6	12008.8	14341.1	14566.4	13114.0
75°	298.8	327.2	420.7	686.2	1195.4	2896.6	7274.0	10180.7	10512.9	9038.7
77.5°	198.7	212.0	272.1	444.1	672.8	988.3	3108.6	5304.0	5938.4	4936.7
80°	133.6	145.2	187.0	297.2	437.4	424.1	990.0	1965.0	2417.4	1696.2
82.5°	90.2	91.8	133.6	195.3	277.1	205.3	292.2	611.0	768.0	490.8
85°	51.8	50.1	98.5	113.5	123.5	85.1	88.5	183.6	240.4	207.0
87.5°	6.7	10.0	38.4	30.1	16.7	18.4	18.4	31.7	46.7	50.1
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°
2896.6	0°	2896.6	2896.6	2896.6	2896.6	2896.6	2896.6	2896.6	2896.6	2896.6	2896.6
2899.9	2.5°	2899.9	2898.3	2893.3	2888.2	2876.6	2869.9	2873.2	2869.9	2868.2	2869.9
2921.6	5°	2921.6	2916.6	2903.3	2886.6	2863.2	2834.8	2816.5	2789.7	2764.7	2749.7
2980.1	7.5°	2980.1	2975.1	2956.7	2909.9	2834.8	2716.3	2607.8	2512.6	2440.8	2399.1
3073.6	10°	3073.6	3065.2	3036.8	2933.3	2736.3	2477.5	2262.2	2083.5	1966.7	1911.6
3183.7	12.5°	3183.7	3173.7	3123.6	2911.6	2549.3	2145.3	1848.1	1649.5	1541.0	1492.5
3310.6	15°	3314.0	3300.6	3202.1	2808.1	2277.2	1778.0	1505.9	1357.3	1287.2	1243.8
3472.6	17.5°	3475.9	3452.5	3260.5	2652.8	1981.7	1497.5	1295.5	1183.7	1121.9	1080.2
3684.6	20°	3686.3	3647.9	3307.3	2467.5	1709.6	1320.6	1153.6	1060.1	1013.4	976.7
3985.1	22.5°	3980.1	3925.0	3364.1	2267.2	1517.6	1198.7	1048.5	980.0	941.6	899.9
4404.2	25°	4344.1	4278.9	3434.2	2081.9	1385.7	1093.5	971.7	914.9	869.8	821.4
4953.4	27.5°	4853.3	4736.4	3517.7	1929.9	1272.2	1003.4	901.5	838.1	786.3	746.3
5576.2	30°	5420.9	5228.9	3591.1	1838.1	1168.7	919.9	809.7	746.3	697.9	669.5
6135.4	32.5°	5958.5	5698.0	3639.5	1798.1	1075.2	824.7	709.5	641.1	604.4	596.0
6683.0	35°	6466.0	6122.1	3634.5	1759.7	991.7	729.6	611.0	540.9	512.5	517.5
7272.4	37.5°	7050.3	6574.5	3599.5	1699.6	923.2	642.8	525.9	464.1	439.1	440.7
7988.6	40°	7729.8	7097.1	3577.8	1586.0	848.1	562.6	455.8	405.7	387.3	380.6
8743.2	42.5°	8454.4	7602.9	3581.1	1457.5	754.6	490.8	407.4	365.6	348.9	343.9
9583.0	45°	9182.3	8085.4	3586.1	1323.9	656.1	435.7	372.3	337.2	327.2	320.5
10434.4	47.5°	9866.8	8496.1	3492.6	1180.3	559.3	394.0	343.9	320.5	312.2	303.9
11289.2	50°	10504.5	8769.9	3267.2	1013.4	482.5	360.6	322.2	305.5	297.2	288.8
12063.9	52.5°	11000.4	8813.3	2894.9	841.4	429.1	335.6	308.9	293.8	283.8	275.5
12689.9	55°	11220.8	8541.2	2365.7	681.2	387.3	313.9	295.5	280.5	268.8	260.4
13182.4	57.5°	11164.0	7968.6	1844.8	547.6	347.3	292.2	278.8	268.8	255.4	242.1
13581.4	60°	10885.2	7202.3	1390.7	455.8	310.5	268.8	260.4	252.1	233.7	213.7
13735.0	62.5°	10402.7	6238.9	991.7	377.3	270.5	242.1	238.7	232.1	205.3	168.6
13508.0	65°	9664.8	5068.6	667.8	313.9	232.1	212.0	213.7	202.0	167.0	125.2
12676.6	67.5°	8586.3	3706.3	427.4	257.1	193.7	177.0	178.6	172.0	141.9	106.8
11100.5	70°	7212.3	2454.2	278.8	195.3	155.3	136.9	146.9	148.6	120.2	86.8
8519.5	72.5°	5287.3	1449.1	195.3	145.2	113.5	95.2	120.2	123.5	96.8	65.1
5125.4	75°	3013.5	687.8	146.9	105.2	70.1	66.8	93.5	93.5	66.8	43.4
2218.8	77.5°	1265.5	287.2	103.5	68.4	40.1	38.4	63.4	58.4	33.4	20.0
540.9	80°	365.6	128.6	55.1	33.4	16.7	15.0	25.0	18.4	8.3	3.3
205.3	82.5°	143.6	56.8	21.7	13.4	6.7	6.7	3.3	0.0	0.0	0.0
116.9	85°	85.1	23.4	10.0	5.0	1.7	0.0	0.0	0.0	0.0	0.0
25.0	87.5°	21.7	5.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
2896.6
2876.6
2753.0
2400.8
1906.6
1487.5
1245.5
1076.8
970.0
893.2
816.4
737.9
664.5
601.0
517.5
447.4
379.0
342.2
320.5
303.9
288.8
273.8
258.8
240.4
210.4
165.3
121.9
101.8
83.5
61.8
40.1
20.0
3.3
0.0
0.0
0.0
0.0

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