

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: P950181

Luminaire Tested: **GALN-SB4C-950-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950181
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-950-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17383 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

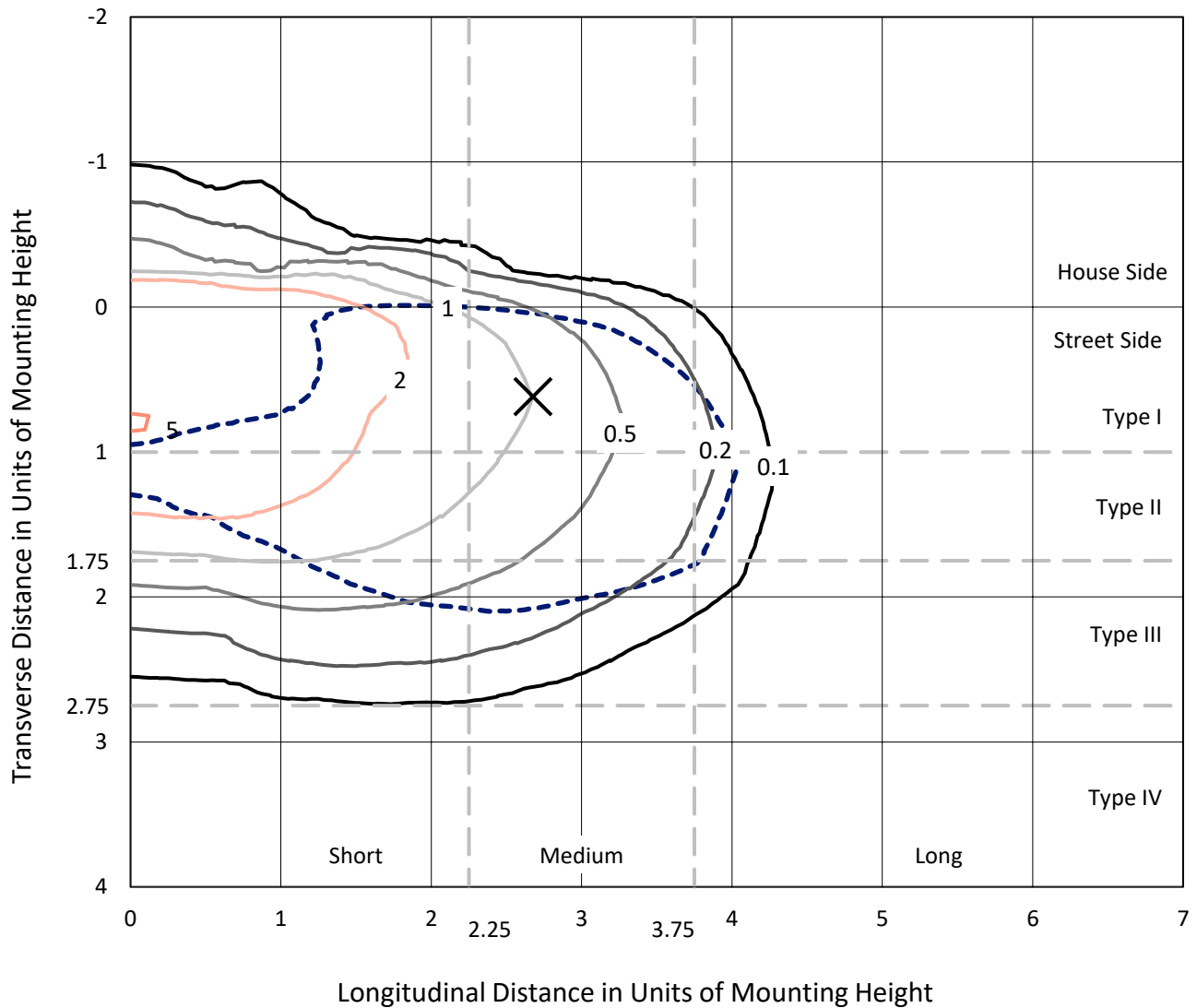
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

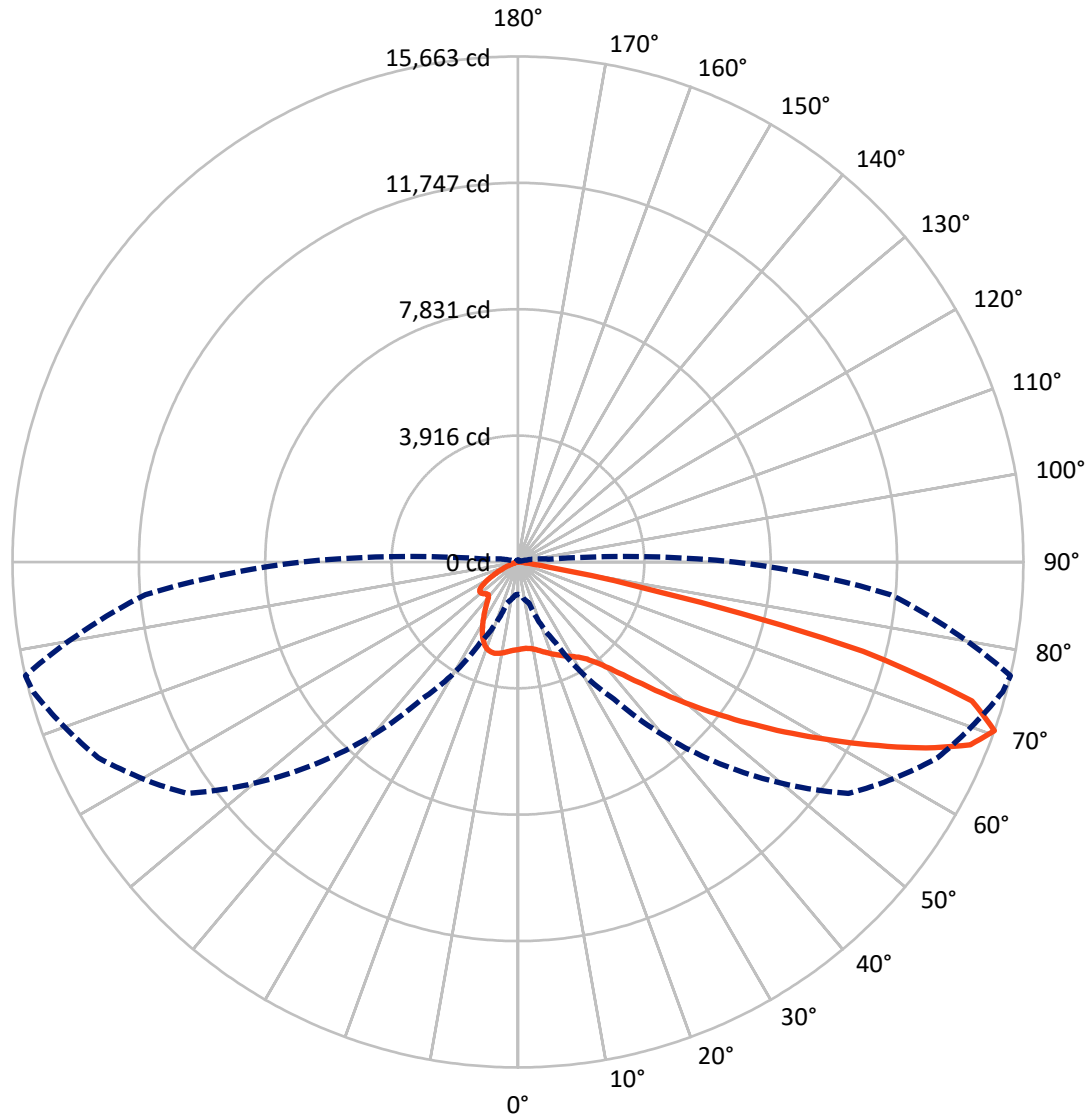
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1832.4	0.0	1832.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	15550.6	0.0	15550.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	17383.0	0.0	17383.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.7	1.3
10°-20°	554.7	3.2
20°-30°	858.0	4.9
30°-40°	1556.9	9.0
40°-50°	2938.9	16.9
50°-60°	4246.4	24.4
60°-70°	4520.2	26.0
70°-80°	2395.4	13.8
80°-90°	78.7	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°	17383.0	100.0
0°-180°	17383.0	100.0

Coefficient of Utilization



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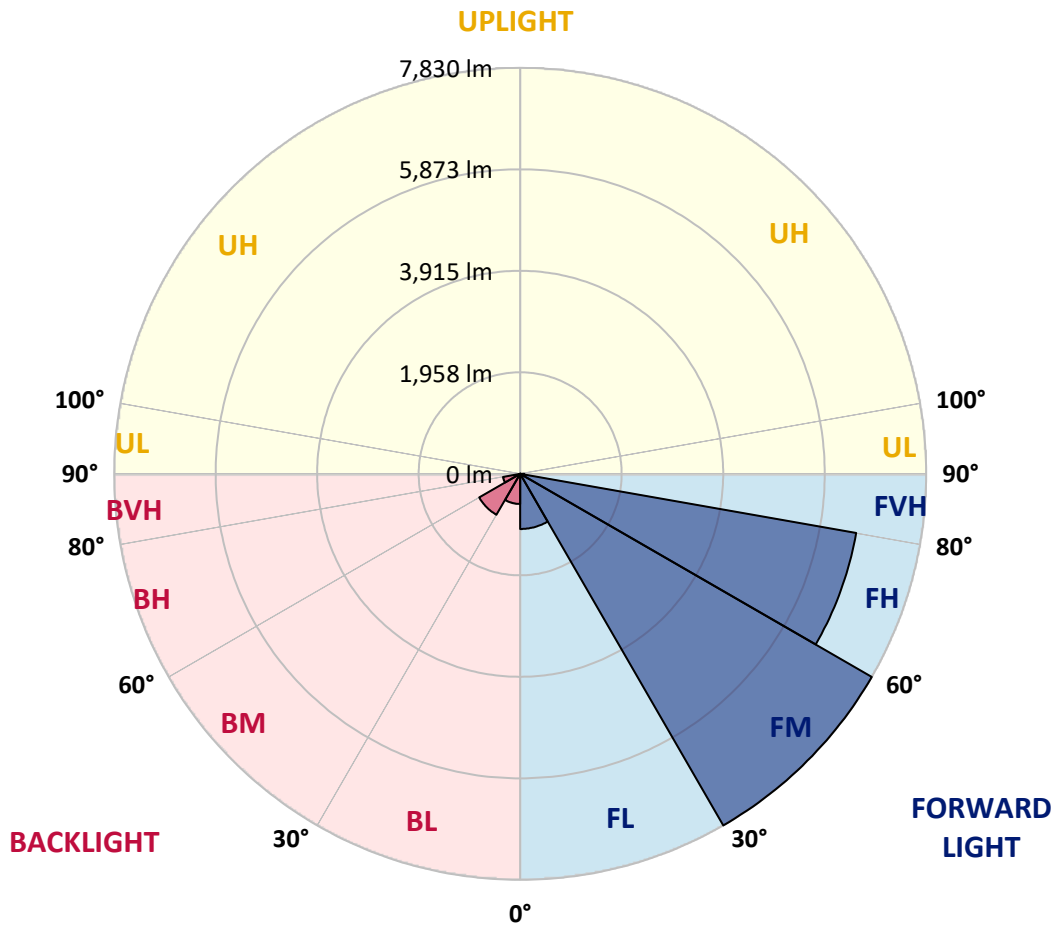
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1064.3	6.1			
FM (30°-60°)	7830.1	45.0			
FH (60°-80°)	6579.7	37.9			G3/7500
FVH (80°-90°)	76.5	0.4			G1/100
BL (0°-30°)	582.2	3.3	B2/1000		
BM (30°-60°)	912.2	5.2	B1/1000		
BH (60°-80°)	335.9	1.9	B1/500		G1/500
BVH (80°-90°)	2.1	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-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4
2.5°	2545.7	2568.7	2565.4	2580.8	2586.3	2608.2	2630.2	2659.8	2692.8	2691.7
5°	2401.9	2424.9	2430.4	2451.3	2477.6	2511.6	2556.7	2615.9	2677.4	2687.3
7.5°	2231.7	2255.9	2270.1	2311.9	2360.2	2430.4	2504.0	2590.7	2692.8	2707.0
10°	2061.6	2083.5	2102.2	2161.5	2238.3	2342.6	2462.2	2587.4	2724.6	2745.5
12.5°	1956.2	1977.0	1997.9	2049.5	2145.0	2272.3	2434.8	2602.8	2777.3	2806.9
15°	1918.9	1937.5	1954.0	2000.1	2089.0	2233.9	2429.3	2634.6	2844.3	2883.8
17.5°	1924.3	1934.2	1945.2	1980.3	2067.1	2216.4	2439.2	2689.5	2923.3	2958.4
20°	1956.2	1961.7	1962.8	1986.9	2063.8	2214.2	2459.0	2742.2	2997.9	3045.1
22.5°	1996.8	1999.0	1996.8	2013.3	2084.6	2230.6	2485.3	2805.8	3081.4	3125.3
25°	2186.7	2145.0	2092.3	2060.5	2119.7	2262.5	2524.8	2891.5	3172.5	3215.3
27.5°	2776.2	2656.5	2467.7	2255.9	2192.2	2308.6	2579.7	2978.2	3264.7	3303.1
30°	3733.4	3576.5	3255.9	2778.4	2424.9	2405.2	2651.1	3064.9	3362.4	3404.1
32.5°	4692.9	4654.4	4284.5	3623.7	2948.5	2620.3	2769.6	3182.4	3491.9	3524.9
35°	5663.3	5585.3	5282.4	4629.2	3755.4	3058.3	2967.2	3336.1	3662.1	3699.4
37.5°	6406.4	6359.2	6171.5	5633.6	4712.6	3734.5	3305.3	3574.3	3909.1	3950.8
40°	7062.9	7040.9	6977.3	6622.7	5782.9	4619.3	3831.1	3943.1	4251.6	4301.0
42.5°	7578.8	7630.4	7666.7	7567.9	6886.2	5629.2	4538.1	4461.2	4729.1	4779.6
45°	8106.9	8124.4	8270.4	8413.1	7981.7	6685.3	5335.0	5068.3	5323.0	5385.5
47.5°	8446.1	8516.3	8773.2	9024.6	8902.7	7732.5	6191.3	5785.1	6011.3	6128.7
50°	8471.3	8604.1	8957.6	9395.6	9573.4	8729.3	7122.2	6601.8	6842.3	6971.8
52.5°	8050.9	8257.2	8805.0	9446.1	9935.7	9573.4	8084.9	7418.6	7727.0	7896.1
55°	6172.6	6442.7	8230.9	9171.7	9950.0	10213.4	9022.4	8269.3	8712.8	8903.8
57.5°	5377.9	5514.0	6471.2	8695.3	9685.4	10471.4	9869.8	9079.5	9785.3	10022.4
60°	4474.4	4653.3	5427.3	7915.9	9326.5	10496.7	10618.5	10124.5	10947.8	11214.6
62.5°	3040.8	3235.1	4004.6	6576.6	8835.8	10484.6	11232.1	11200.3	12239.9	12526.4
65°	1883.7	2005.6	2512.7	5370.2	8149.7	10497.8	11874.3	12506.6	13603.3	13894.2
67.5°	1488.5	1544.5	1809.1	4123.1	6967.4	10201.4	12515.4	13735.0	14886.5	15117.1
70°	1000.0	1034.1	1316.2	2764.1	5183.6	8833.6	12503.3	14351.9	15547.4	15662.6
72.5°	526.9	553.3	769.5	1280.0	3130.8	6279.1	10539.5	13614.3	14889.8	14716.4
75°	263.5	307.4	518.1	649.9	1337.1	3501.8	6544.8	10733.8	11719.5	11047.7
77.5°	199.8	241.5	428.1	428.1	465.4	1179.0	2771.8	5854.3	5399.8	4496.4
80°	127.3	164.7	374.3	323.8	194.3	299.7	722.3	1640.0	1147.1	872.7
82.5°	74.6	107.6	311.8	214.1	108.7	110.9	204.2	349.1	297.5	231.6
85°	29.6	70.3	214.1	84.5	42.8	27.4	61.5	74.6	61.5	46.1
87.5°	0.0	16.5	37.3	0.0	3.3	2.2	4.4	5.5	5.5	4.4
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°
2711.4	0°	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4
2713.6	2.5°	2723.5	2725.7	2732.3	2733.4	2718.0	2698.3	2690.6	2687.3	2674.1	2673.0
2731.2	5°	2756.4	2766.3	2756.4	2727.9	2659.8	2564.3	2491.9	2432.6	2378.8	2362.4
2791.6	7.5°	2822.3	2832.2	2802.5	2690.6	2519.3	2329.4	2158.2	2037.4	1928.7	1888.1
2865.1	10°	2916.7	2929.9	2836.6	2610.4	2307.5	2002.3	1712.5	1508.3	1349.1	1284.4
2965.0	12.5°	3035.3	3040.8	2855.2	2488.6	2031.9	1596.1	1185.6	967.1	825.5	772.8
3085.8	15°	3165.9	3158.2	2857.4	2322.8	1656.5	1128.5	773.9	635.6	578.5	560.9
3206.5	17.5°	3303.1	3271.3	2813.5	2083.5	1244.8	771.7	574.1	541.2	531.3	526.9
3326.2	20°	3438.1	3366.8	2733.4	1770.7	893.6	576.3	521.4	511.5	506.1	503.9
3446.9	22.5°	3561.1	3439.2	2596.2	1407.3	648.8	509.4	492.9	484.1	474.2	469.8
3564.4	25°	3680.7	3481.0	2403.0	1068.1	519.2	476.4	463.2	446.8	433.6	428.1
3690.6	27.5°	3797.1	3507.3	2161.5	790.4	463.2	445.7	421.5	398.5	388.6	386.4
3825.6	30°	3921.2	3516.1	1887.0	589.5	429.2	407.3	372.1	345.8	340.3	341.4
4007.9	32.5°	4072.6	3529.3	1610.4	483.0	400.7	361.2	319.4	292.0	287.6	292.0
4273.5	35°	4253.8	3555.6	1343.6	444.6	375.4	314.0	268.9	245.9	241.5	244.8
4613.8	37.5°	4499.7	3598.4	1094.5	436.9	354.6	274.4	226.1	207.5	207.5	208.6
5031.0	40°	4826.8	3712.6	871.6	431.4	343.6	244.8	191.0	183.3	186.6	188.8
5562.3	42.5°	5225.3	3955.2	721.2	424.8	331.5	231.6	173.4	170.2	175.6	177.8
6199.0	45°	5672.1	4262.5	668.5	413.9	320.5	240.4	165.8	161.4	168.0	169.1
6912.5	47.5°	6134.2	4563.3	661.9	401.8	309.6	253.6	163.6	153.7	161.4	162.5
7674.3	50°	6601.8	4759.8	668.5	383.1	292.0	253.6	164.7	146.0	152.6	155.9
8464.7	52.5°	7072.8	4849.8	664.1	342.5	261.3	238.2	164.7	139.4	146.0	148.2
9318.8	55°	7529.4	4832.3	597.2	282.1	221.7	210.8	160.3	133.9	138.3	139.4
10125.6	57.5°	7890.6	4587.5	473.1	219.5	180.0	175.6	146.0	127.3	130.6	129.5
10865.5	60°	8079.4	4049.6	338.1	169.1	141.6	138.3	128.4	118.6	120.8	115.3
11492.3	62.5°	8081.6	3338.2	226.1	133.9	113.1	109.8	109.8	106.5	104.3	93.3
11977.5	65°	7909.3	2549.0	150.4	106.5	91.1	85.6	92.2	91.1	83.4	68.1
12125.7	67.5°	7518.5	1670.8	114.2	83.4	70.3	67.0	73.5	76.8	71.4	57.1
11585.6	70°	6714.9	972.6	94.4	64.8	52.7	49.4	59.3	65.9	59.3	46.1
9902.8	72.5°	5577.7	524.7	76.8	48.3	36.2	32.9	47.2	53.8	47.2	34.0
6353.8	75°	3619.3	281.0	59.3	31.8	18.7	20.9	35.1	39.5	32.9	22.0
1865.1	77.5°	1215.2	124.0	37.3	15.4	8.8	8.8	20.9	24.2	15.4	7.7
339.2	80°	271.1	51.6	15.4	6.6	3.3	3.3	4.4	4.4	2.2	0.0
104.3	82.5°	88.9	20.9	6.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0
26.3	85°	34.0	7.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.8	87.5°	13.2	1.1	0.0	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>
2711.4
2675.2
2352.5
1871.7
1256.9
756.3
560.9
525.8
501.7
468.7
425.9
384.2
341.4
290.9
243.7
207.5
188.8
177.8
170.2
163.6
157.0
148.2
139.4
129.5
114.2
90.0
65.9
56.0
43.9
32.9
19.8
6.6
0.0
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