

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: P950158

Luminaire Tested: **GALN-SB4C-940-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950158
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-940-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16622 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

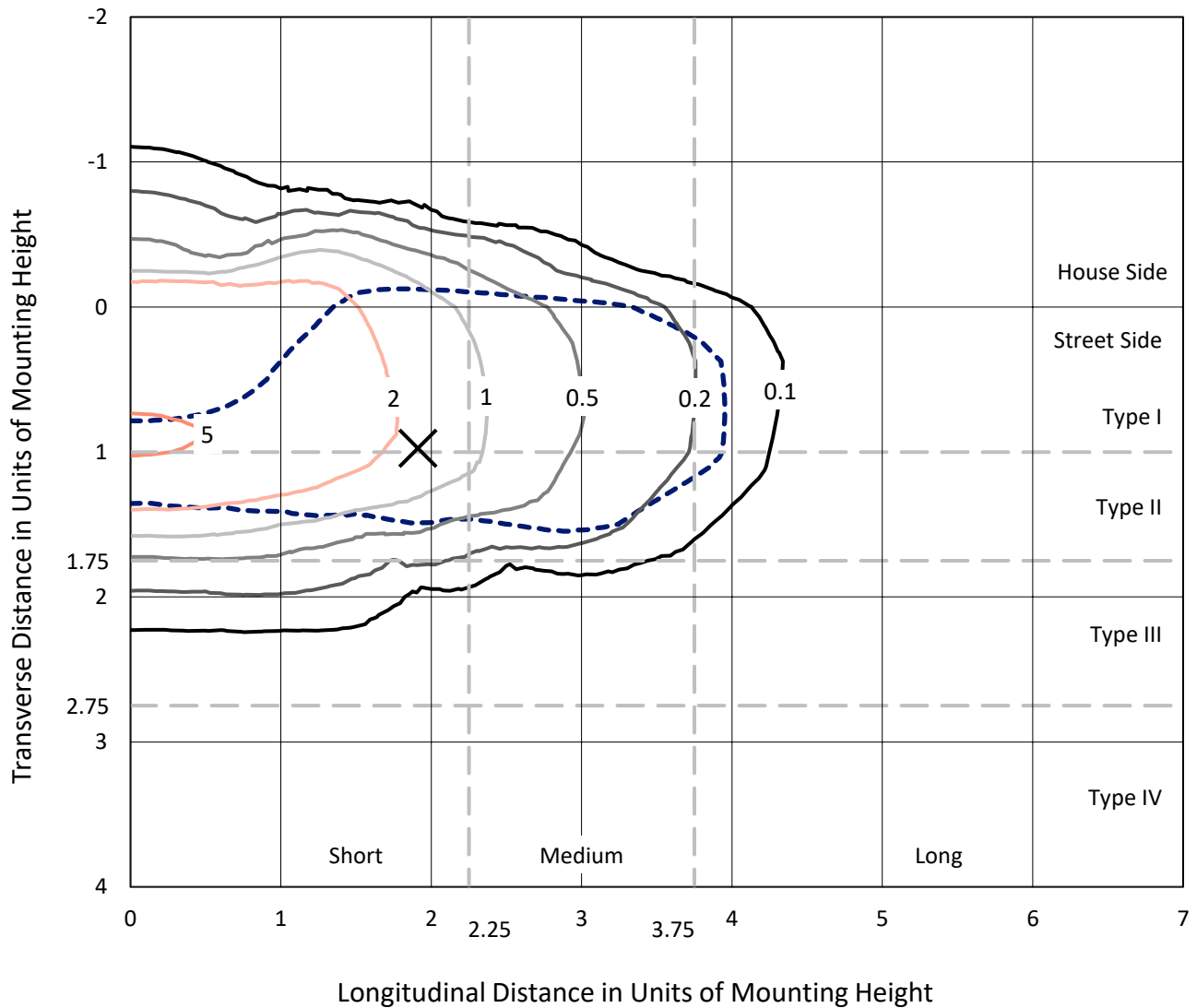
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

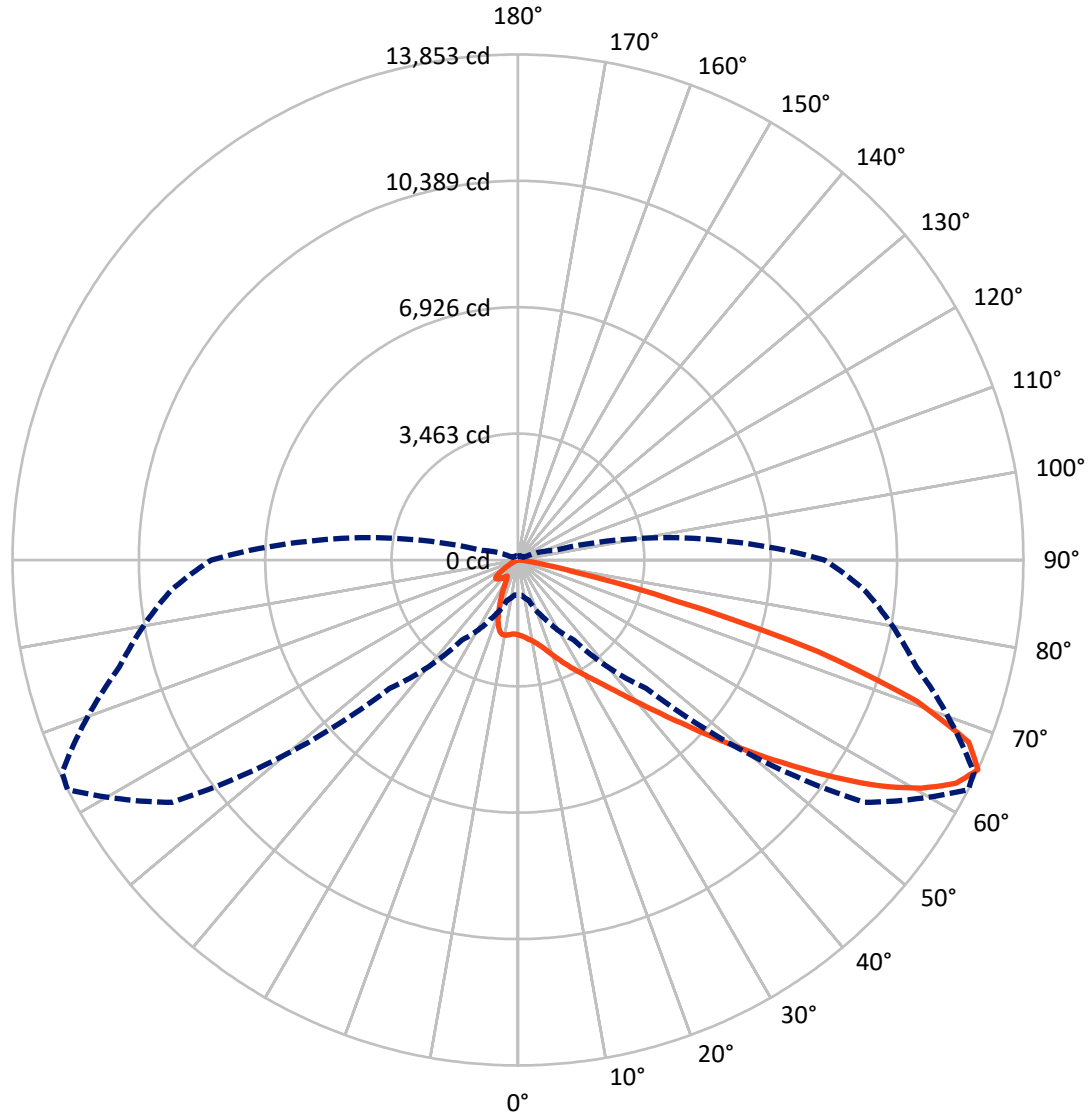
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2443.3	0.0	2443.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	14178.7	0.0	14178.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	16622.0	0.0	16622.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.3	1.2
10°-20°	536.3	3.2
20°-30°	933.8	5.6
30°-40°	1683.1	10.1
40°-50°	3338.2	20.1
50°-60°	4547.2	27.4
60°-70°	3629.5	21.8
70°-80°	1642.4	9.9
80°-90°	118.1	0.7
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°	16622.0	100.0
0°-180°	16622.0	100.0

Coefficient of Utilization



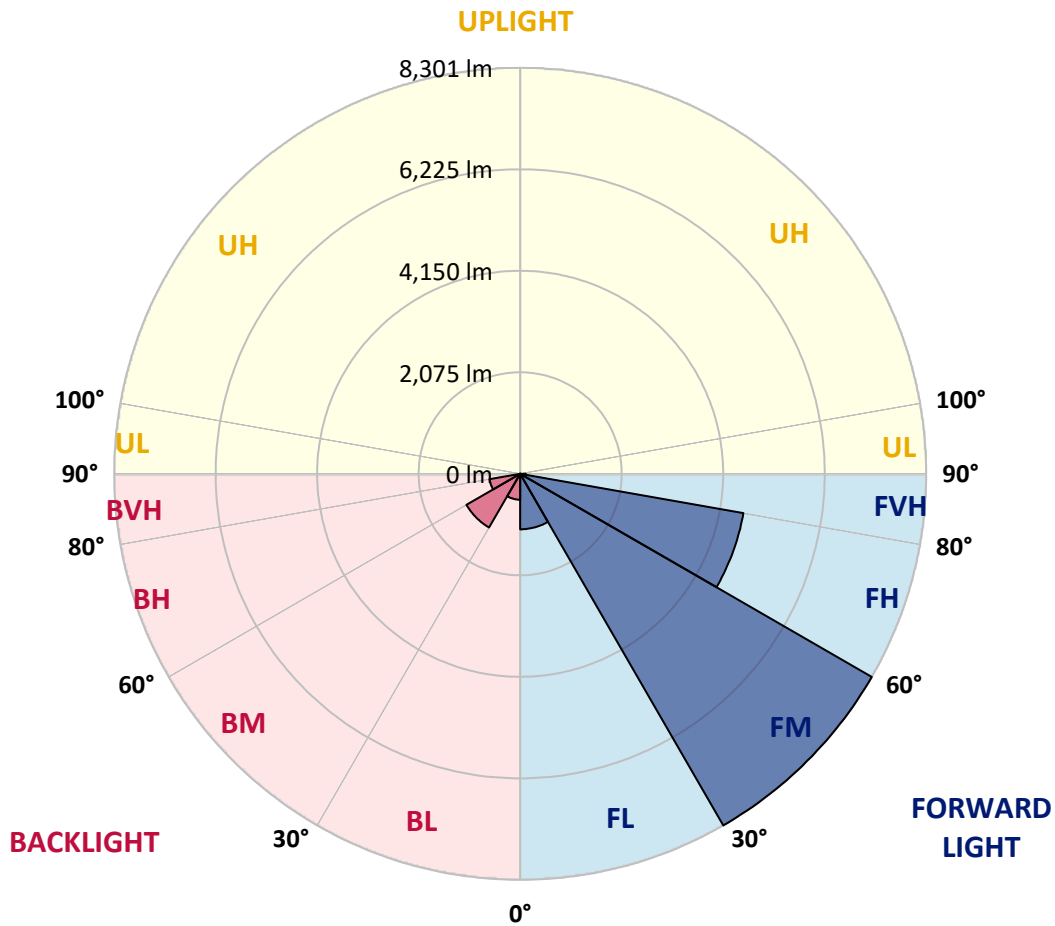
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1134.7	6.8			
FM (30°-60°)	8300.6	49.9			
FH (60°-80°)	4634.1	27.9			G2/5000
FVH (80°-90°)	109.3	0.7			G2/225
BL (0°-30°)	528.8	3.2	B2/1000		
BM (30°-60°)	1267.9	7.6	B2/2500		
BH (60°-80°)	637.8	3.8	B2/1000		G2/1000
BVH (80°-90°)	8.8	0.1			G0/10
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	2051.5	2051.5	2051.5	2051.5	2051.5	2051.5	2051.5	2051.5	2051.5	2051.5
2.5°	2099.5	2093.8	2101.8	2098.4	2096.1	2091.5	2089.2	2086.9	2082.3	2078.9
5°	2105.2	2101.8	2109.8	2116.6	2123.5	2130.4	2133.8	2138.4	2133.8	2124.7
7.5°	2057.2	2054.9	2072.1	2092.6	2123.5	2149.8	2178.4	2194.4	2195.6	2192.1
10°	2053.8	2048.0	2065.2	2090.3	2130.4	2177.3	2227.6	2261.9	2266.4	2281.3
12.5°	2107.5	2101.8	2125.8	2153.2	2194.4	2243.6	2305.3	2353.4	2360.2	2380.8
15°	2197.8	2189.8	2217.3	2252.7	2305.3	2361.4	2426.5	2470.0	2475.7	2500.9
17.5°	2303.0	2295.0	2327.1	2364.8	2422.0	2498.6	2574.1	2622.1	2628.9	2645.0
20°	2438.0	2427.7	2452.8	2487.1	2547.8	2639.2	2729.6	2798.2	2797.0	2797.0
22.5°	2594.6	2578.6	2600.4	2627.8	2685.0	2795.9	2916.0	2997.2	2997.2	2965.1
25°	2762.7	2746.7	2770.7	2795.9	2846.2	2972.0	3112.7	3213.3	3217.9	3163.0
27.5°	2973.1	2952.6	2970.9	3000.6	3030.3	3158.4	3325.3	3442.0	3444.3	3359.7
30°	3377.9	3319.6	3262.5	3230.4	3244.2	3371.1	3549.5	3678.7	3690.1	3573.5
32.5°	4118.9	4107.5	3906.3	3643.2	3506.0	3599.8	3799.9	3955.4	3962.3	3812.5
35°	5270.5	5256.7	4933.1	4432.3	3985.2	3906.3	4104.1	4288.2	4283.6	4114.4
37.5°	6645.0	6632.4	6205.9	5535.8	4811.9	4369.4	4496.3	4689.6	4718.1	4496.3
40°	7819.4	7772.5	7502.6	6856.5	5909.7	5137.8	5054.3	5182.4	5212.1	4949.1
42.5°	8709.0	8669.0	8531.8	8128.1	7238.5	6274.5	5711.9	5761.0	5794.2	5478.6
45°	9169.9	9160.7	9215.6	9177.9	8592.4	7669.6	6651.8	6447.1	6459.7	6065.2
47.5°	9235.0	9230.5	9480.9	9835.4	9756.5	9243.0	7858.2	7302.5	7257.9	6727.3
50°	8850.8	8841.7	9321.9	9986.3	10534.1	10565.0	9228.2	8266.5	8168.1	7412.3
52.5°	7623.8	7621.5	8410.6	9516.3	10807.4	11722.2	10582.1	9325.4	9160.7	8137.3
55°	5866.2	5908.6	6813.1	8120.1	10308.8	12279.1	11797.7	10500.9	10248.2	8866.8
57.5°	4155.5	4217.3	5111.5	6275.6	8762.8	11949.7	12619.8	11678.7	11406.6	9594.1
60°	2232.1	2287.0	3182.4	4571.8	6519.2	10721.6	13053.2	12701.0	12443.7	10284.8
62.5°	1329.9	1348.2	1718.7	2951.4	4409.4	8191.0	12869.1	13479.8	13268.2	10864.6
65°	954.8	958.3	1144.7	1802.2	2677.0	4976.6	11578.1	13852.6	13787.4	11301.4
67.5°	803.9	801.6	879.4	1197.3	1823.9	2492.9	8873.7	13325.4	13602.1	11578.1
70°	689.5	693.0	784.5	877.1	1371.1	1411.1	4411.7	11602.1	12192.2	11651.3
72.5°	513.4	524.9	609.5	799.3	1034.9	970.8	1523.2	8602.7	9669.6	10977.8
75°	362.5	368.2	428.8	672.4	771.9	706.7	777.6	4447.1	5814.8	8416.3
77.5°	279.0	289.3	324.8	470.0	760.4	496.3	475.7	1539.2	2364.8	5084.1
80°	150.9	169.2	234.4	339.6	534.0	351.1	235.6	612.9	801.6	2377.4
82.5°	77.8	86.9	163.5	244.7	304.2	306.5	116.6	255.0	330.5	734.1
85°	30.9	37.7	109.8	134.9	156.7	150.9	52.6	102.9	118.9	203.5
87.5°	6.9	11.4	40.0	30.9	29.7	32.0	12.6	24.0	22.9	24.0
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°
2051.5	0°	2051.5	2051.5	2051.5	2051.5	2051.5	2051.5	2051.5	2051.5	2051.5	2051.5
2065.2	2.5°	2064.0	2059.5	2046.9	2033.2	2017.2	2008.0	2002.3	2001.2	1993.1	1987.4
2110.9	5°	2098.4	2093.8	2069.8	2041.2	2010.3	1986.3	1963.4	1942.8	1913.1	1907.4
2177.3	7.5°	2167.0	2154.4	2115.5	2076.6	2018.3	1948.6	1863.9	1766.7	1679.8	1653.5
2265.3	10°	2251.6	2234.4	2185.3	2116.6	1987.4	1797.6	1592.9	1403.1	1252.2	1209.8
2369.4	12.5°	2347.6	2332.8	2267.6	2140.7	1858.2	1514.0	1200.7	965.1	818.8	782.2
2480.3	15°	2462.0	2440.3	2349.9	2104.1	1627.2	1150.4	824.5	685.0	632.4	625.5
2607.2	17.5°	2583.2	2547.8	2423.1	1972.6	1316.2	817.6	636.9	596.9	574.0	567.2
2735.3	20°	2694.1	2648.4	2466.6	1773.6	983.4	636.9	570.6	544.3	523.7	515.7
2863.4	22.5°	2805.0	2739.9	2466.6	1502.6	737.6	564.9	523.7	499.7	475.7	465.4
3000.6	25°	2920.5	2833.6	2423.1	1200.7	593.5	518.0	479.1	452.8	432.2	419.7
3130.9	27.5°	3032.6	2912.5	2323.6	914.8	528.3	476.8	438.0	412.8	393.4	384.2
3272.7	30°	3139.0	2990.3	2184.1	694.1	486.0	436.8	400.2	378.5	359.1	349.9
3456.9	32.5°	3283.0	3088.6	2035.5	569.5	449.4	399.1	365.9	345.3	328.2	321.3
3695.8	35°	3483.2	3233.9	1907.4	559.2	418.5	368.2	335.1	315.6	298.5	292.7
4004.6	37.5°	3766.7	3468.3	1839.9	627.8	393.4	340.8	309.9	289.3	273.3	268.7
4396.8	40°	4116.7	3786.2	1876.5	696.4	376.2	316.8	287.0	266.4	252.7	247.0
4847.4	42.5°	4531.8	4178.4	2078.9	749.0	364.8	296.2	265.3	242.4	233.3	231.0
5358.5	45°	5008.6	4609.5	2388.8	805.0	346.5	276.7	243.6	226.4	219.6	218.4
5914.3	47.5°	5550.6	5082.9	2747.9	874.8	328.2	258.4	226.4	215.0	209.3	207.0
6494.0	50°	6088.1	5559.8	3117.2	913.7	313.3	241.3	212.7	203.5	199.0	197.8
7107.0	52.5°	6650.7	6050.3	3415.7	877.1	300.7	227.6	201.3	194.4	189.8	188.7
7671.9	55°	7187.0	6447.1	3467.1	744.4	275.6	213.8	188.7	185.2	179.5	179.5
8244.8	57.5°	7649.0	6646.1	3103.5	546.6	250.4	193.3	176.1	172.7	168.1	167.0
8761.6	60°	8073.2	6588.9	2395.7	368.2	223.0	172.7	160.1	157.8	153.2	147.5
9211.0	62.5°	8312.2	6337.4	1638.7	240.1	195.5	150.9	141.8	140.7	130.4	118.9
9543.8	65°	8402.6	5820.5	1022.3	175.0	163.5	129.2	122.4	120.1	105.2	92.6
9732.5	67.5°	8323.7	4969.7	515.7	138.4	129.2	107.5	100.6	100.6	90.3	78.9
9721.0	70°	8008.0	3725.6	217.3	110.9	99.5	82.3	82.3	86.9	76.6	64.0
9216.7	72.5°	7323.1	2506.6	115.5	84.6	74.3	58.3	67.5	70.9	60.6	48.0
7543.8	75°	5821.6	1528.9	80.0	62.9	46.9	41.2	51.5	53.7	41.2	32.0
5172.1	77.5°	3981.7	878.2	53.7	40.0	29.7	24.0	35.4	33.2	21.7	14.9
1994.3	80°	1748.4	365.9	30.9	18.3	11.4	9.1	12.6	9.1	6.9	4.6
273.3	82.5°	204.7	85.8	11.4	6.9	4.6	2.3	1.1	0.0	0.0	0.0
83.5	85°	42.3	10.3	5.7	2.3	1.1	0.0	0.0	0.0	0.0	0.0
14.9	87.5°	8.0	2.3	1.1	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>
2051.5
1993.1
1905.1
1640.9
1193.8
771.9
618.6
563.8
511.2
459.7
415.1
384.2
351.1
321.3
292.7
267.6
245.9
231.0
217.3
207.0
197.8
188.7
178.4
165.8
146.4
116.6
91.5
77.8
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