

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: P953751

Luminaire Tested: **GALN-SB7A-950-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953751  
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-SB7A-950-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

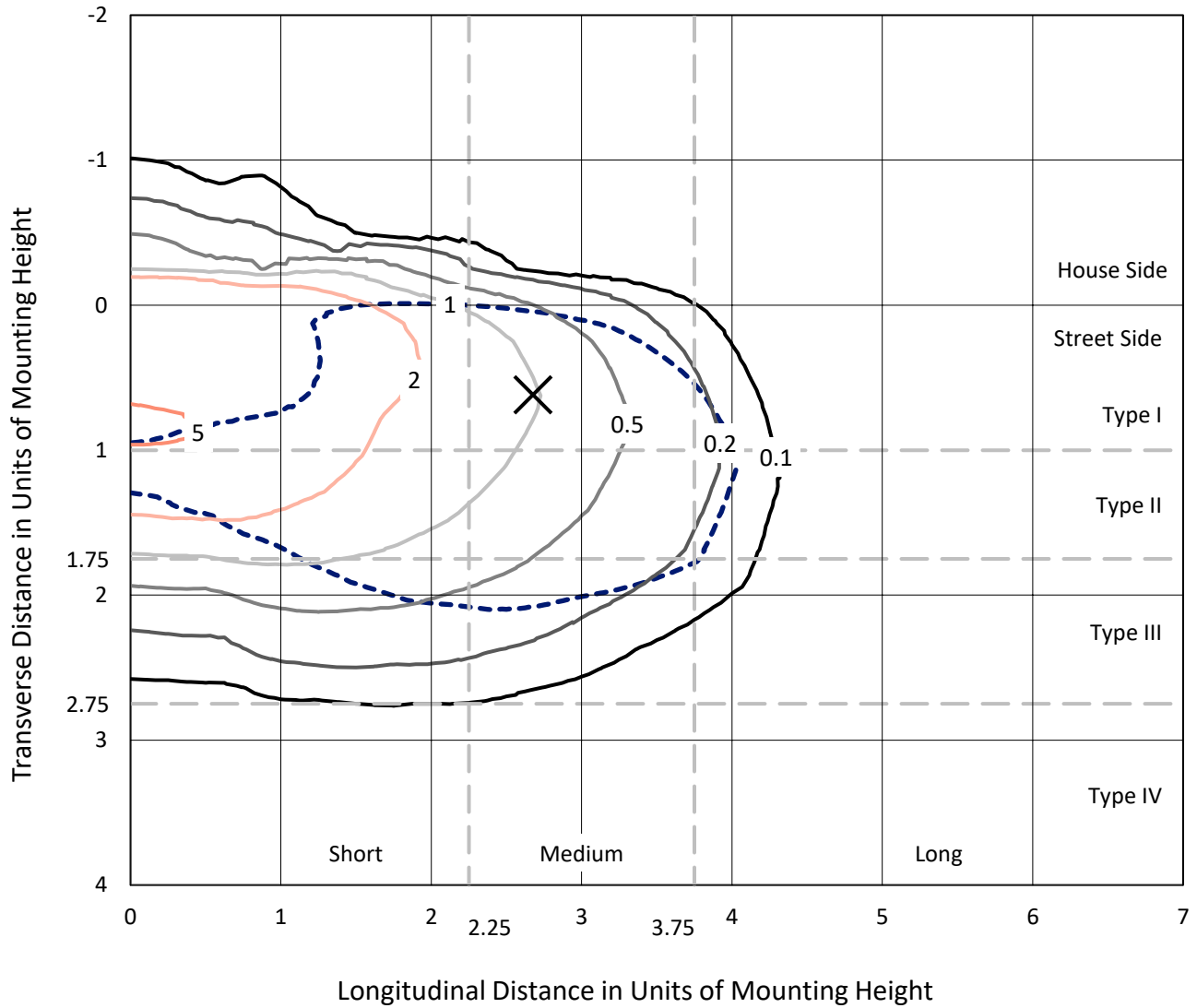
Lumens per Lamp: N/A  
Luminaire Lumens: 18476 lumens  
Efficiency: N/A  
Efficacy: 92.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): 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

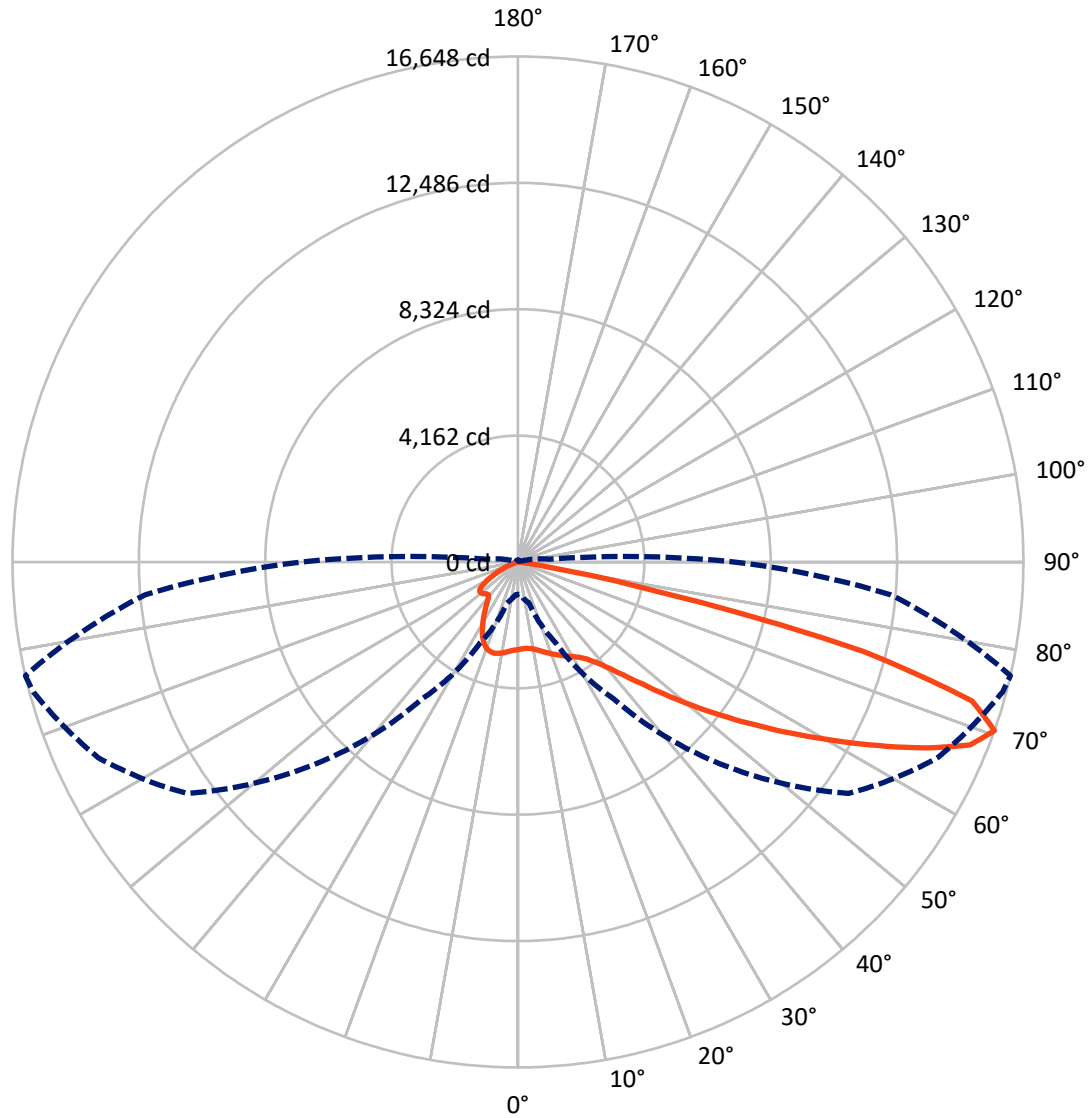
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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
<b>House Side</b>	Lumens	1947.6	0.0	1947.6
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	16528.4	0.0	16528.4
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	18476.0	0.0	18476.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.4	1.3
10°-20°	589.6	3.2
20°-30°	912.0	4.9
30°-40°	1654.8	9.0
40°-50°	3123.7	16.9
50°-60°	4513.5	24.4
60°-70°	4804.4	26.0
70°-80°	2546.0	13.8
80°-90°	83.6	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°	18476.0	100.0
0°-180°	18476.0	100.0

**Coefficient of Utilization**



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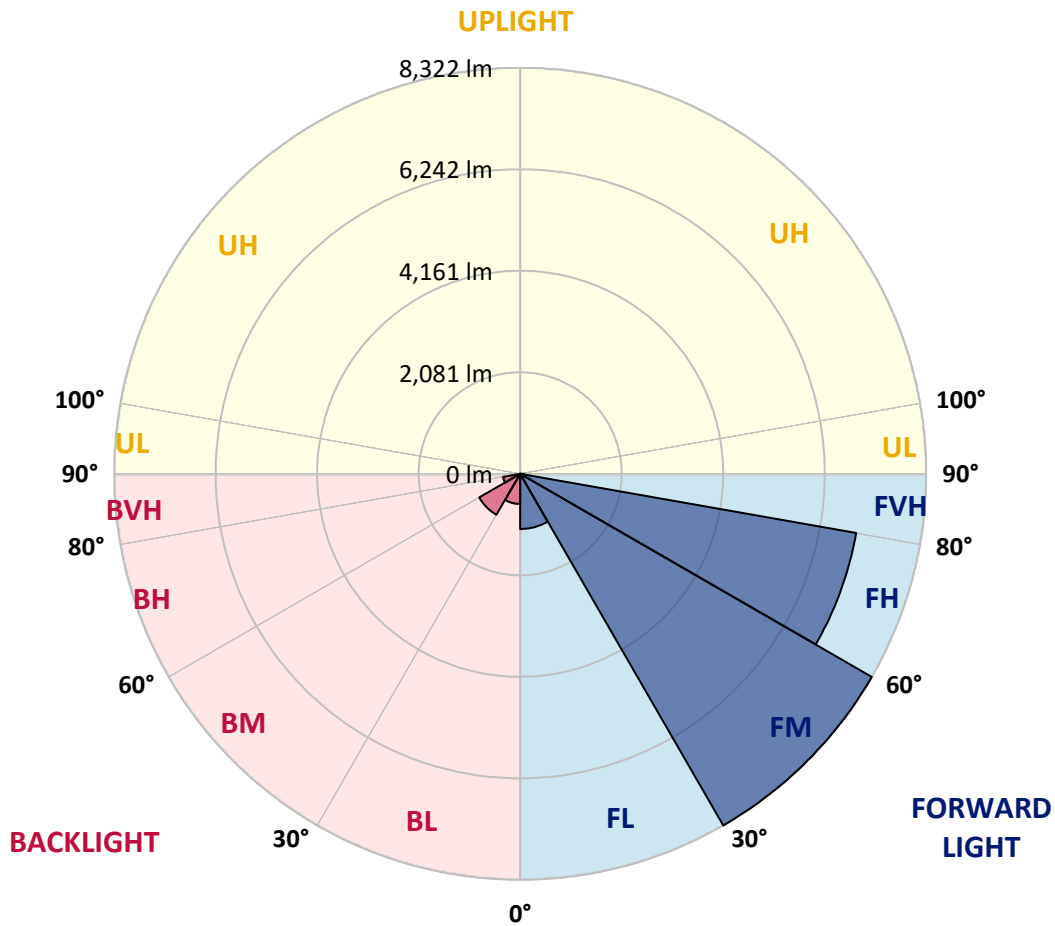
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1131.2	6.1			
FM (30°-60°)	8322.4	45.0			
FH (60°-80°)	6993.4	37.9			G3/7500
FVH (80°-90°)	81.3	0.4			G1/100
BL (0°-30°)	618.8	3.3	B2/1000		
BM (30°-60°)	969.5	5.2	B1/1000		
BH (60°-80°)	357.0	1.9	B1/500		G1/500
BVH (80°-90°)	2.2	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°	2881.9	2881.9	2881.9	2881.9	2881.9	2881.9	2881.9	2881.9	2881.9	2881.9
2.5°	2705.7	2730.2	2726.7	2743.1	2748.9	2772.2	2795.6	2827.1	2862.1	2860.9
5°	2552.9	2577.4	2583.2	2605.4	2633.4	2669.6	2717.4	2780.4	2845.8	2856.3
7.5°	2372.0	2397.7	2412.9	2457.2	2508.6	2583.2	2661.4	2753.6	2862.1	2877.3
10°	2191.2	2214.5	2234.4	2297.4	2379.0	2489.9	2617.1	2750.1	2895.9	2918.1
12.5°	2079.2	2101.4	2123.5	2178.4	2279.9	2415.2	2587.9	2766.4	2951.9	2983.4
15°	2039.5	2059.3	2076.9	2125.9	2220.4	2374.4	2582.1	2800.2	3023.1	3065.1
17.5°	2045.3	2055.8	2067.5	2104.9	2197.0	2355.7	2592.6	2858.6	3107.1	3144.4
20°	2079.2	2085.0	2086.2	2111.9	2193.5	2353.4	2613.6	2914.6	3186.4	3236.6
22.5°	2122.4	2124.7	2122.4	2139.9	2215.7	2370.9	2641.6	2982.3	3275.1	3321.8
25°	2324.2	2279.9	2223.9	2190.0	2253.0	2404.7	2683.6	3073.3	3372.0	3417.5
27.5°	2950.8	2823.6	2622.9	2397.7	2330.0	2453.7	2741.9	3165.4	3470.0	3510.8
30°	3968.2	3801.3	3460.6	2953.1	2577.4	2556.4	2817.7	3257.6	3573.8	3618.2
32.5°	4987.9	4947.1	4553.9	3851.5	3133.9	2785.1	2943.8	3382.5	3711.5	3746.5
35°	6019.4	5936.5	5614.5	4920.3	3991.5	3250.6	3153.8	3545.8	3892.3	3932.0
37.5°	6809.3	6759.1	6559.6	5987.9	5008.9	3969.4	3513.1	3799.0	4154.9	4199.2
40°	7507.0	7483.7	7416.0	7039.1	6146.5	4909.8	4072.0	4191.0	4518.9	4571.4
42.5°	8055.4	8110.2	8148.7	8043.7	7319.1	5983.2	4823.4	4741.8	5026.4	5080.1
45°	8616.6	8635.3	8790.4	8942.1	8483.6	7105.6	5670.5	5387.0	5657.7	5724.2
47.5°	8977.1	9051.8	9324.8	9592.0	9462.5	8218.7	6580.6	6148.9	6389.2	6514.1
50°	9004.0	9145.1	9520.8	9986.4	10175.4	9278.2	7570.0	7017.0	7272.5	7410.2
52.5°	8557.1	8776.4	9358.7	10040.1	10560.4	10175.4	8593.3	7885.0	8212.9	8392.6
55°	6560.7	6847.8	8748.4	9748.4	10575.6	10855.6	9589.7	8789.3	9260.7	9463.7
57.5°	5716.0	5860.7	6878.1	9242.0	10294.4	11129.8	10490.4	9650.4	10400.6	10652.6
60°	4755.8	4945.9	5768.5	8413.6	9912.9	11156.7	11286.2	10761.1	11636.2	11919.7
62.5°	3232.0	3438.5	4256.4	6990.1	9391.3	11143.8	11938.4	11904.6	13009.5	13314.0
65°	2002.2	2131.7	2670.7	5707.8	8662.1	11157.8	12621.0	13293.0	14458.6	14767.8
67.5°	1582.1	1641.6	1922.8	4382.4	7405.5	10842.8	13302.3	14598.6	15822.6	16067.6
70°	1062.9	1099.1	1399.0	2937.9	5509.5	9389.0	13289.5	15254.4	16525.0	16647.5
72.5°	560.0	588.1	817.9	1360.5	3327.6	6673.9	11202.2	14470.3	15826.1	15641.7
75°	280.0	326.7	550.7	690.7	1421.1	3722.0	6956.3	11408.7	12456.4	11742.4
77.5°	212.4	256.7	455.0	455.0	494.7	1253.1	2946.1	6222.4	5739.3	4779.1
80°	135.3	175.0	397.9	344.2	206.5	318.5	767.7	1743.2	1219.3	927.6
82.5°	79.3	114.3	331.4	227.5	115.5	117.8	217.0	371.0	316.2	246.2
85°	31.5	74.7	227.5	89.8	45.5	29.2	65.3	79.3	65.3	49.0
87.5°	0.0	17.5	39.7	0.0	3.5	2.3	4.7	5.8	5.8	4.7
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°
2881.9	0°	2881.9	2881.9	2881.9	2881.9	2881.9	2881.9	2881.9	2881.9	2881.9	2881.9
2884.3	2.5°	2894.8	2897.1	2904.1	2905.3	2888.9	2867.9	2859.8	2856.3	2842.3	2841.1
2902.9	5°	2929.8	2940.3	2929.8	2899.4	2827.1	2725.6	2648.6	2585.6	2528.4	2510.9
2967.1	7.5°	2999.8	3010.3	2978.8	2859.8	2677.7	2475.9	2293.9	2165.5	2050.0	2006.8
3045.3	10°	3100.1	3114.1	3014.9	2774.6	2452.6	2128.2	1820.2	1603.1	1434.0	1365.1
3151.4	12.5°	3226.1	3232.0	3034.8	2645.1	2159.7	1696.5	1260.1	1027.9	877.4	821.4
3279.8	15°	3365.0	3356.8	3037.1	2468.9	1760.7	1199.4	822.6	675.6	614.9	596.2
3408.1	17.5°	3510.8	3477.0	2990.4	2214.5	1323.1	820.2	610.2	575.2	564.7	560.0
3535.3	20°	3654.3	3578.5	2905.3	1882.0	949.8	612.6	554.2	543.7	537.9	535.5
3663.7	22.5°	3785.0	3655.5	2759.4	1495.8	689.6	541.4	523.9	514.5	504.0	499.4
3788.5	25°	3912.2	3699.8	2554.1	1135.3	551.9	506.4	492.4	474.9	460.9	455.0
3922.7	27.5°	4035.9	3727.8	2297.4	840.1	492.4	473.7	448.0	423.5	413.0	410.7
4066.2	30°	4167.7	3737.2	2005.7	626.6	456.2	432.9	395.5	367.5	361.7	362.9
4259.9	32.5°	4328.7	3751.2	1711.7	513.4	425.9	383.9	339.5	310.4	305.7	310.4
4542.2	35°	4521.2	3779.2	1428.1	472.5	399.0	333.7	285.9	261.4	256.7	260.2
4903.9	37.5°	4782.6	3824.7	1163.3	464.4	376.9	291.7	240.4	220.5	220.5	221.7
5347.3	40°	5130.3	3946.0	926.4	458.5	365.2	260.2	203.0	194.9	198.4	200.7
5912.0	42.5°	5553.8	4203.9	766.6	451.5	352.4	246.2	184.3	180.8	186.7	189.0
6588.8	45°	6028.7	4530.6	710.6	439.9	340.7	255.5	176.2	171.5	178.5	179.7
7347.2	47.5°	6519.9	4850.3	703.6	427.0	329.0	269.5	173.8	163.3	171.5	172.7
8156.9	50°	7017.0	5059.1	710.6	407.2	310.4	269.5	175.0	155.2	162.2	165.7
8997.0	52.5°	7517.5	5154.8	705.9	364.0	277.7	253.2	175.0	148.2	155.2	157.5
9904.7	55°	8002.9	5136.1	634.7	299.9	235.7	224.0	170.3	142.3	147.0	148.2
10762.3	57.5°	8386.7	4875.9	502.9	233.4	191.4	186.7	155.2	135.3	138.8	137.7
11548.7	60°	8587.4	4304.2	359.4	179.7	150.5	147.0	136.5	126.0	128.3	122.5
12214.9	62.5°	8589.8	3548.1	240.4	142.3	120.2	116.7	116.7	113.2	110.8	99.2
12730.6	65°	8406.6	2709.2	159.8	113.2	96.8	91.0	98.0	96.8	88.7	72.3
12888.1	67.5°	7991.2	1775.8	121.3	88.7	74.7	71.2	78.2	81.7	75.8	60.7
12314.1	70°	7137.1	1033.8	100.3	68.8	56.0	52.5	63.0	70.0	63.0	49.0
10525.4	72.5°	5928.4	557.7	81.7	51.3	38.5	35.0	50.2	57.2	50.2	36.2
6753.3	75°	3846.8	298.7	63.0	33.8	19.8	22.2	37.3	42.0	35.0	23.3
1982.3	77.5°	1291.6	131.8	39.7	16.3	9.3	9.3	22.2	25.7	16.3	8.2
360.5	80°	288.2	54.8	16.3	7.0	3.5	3.5	4.7	4.7	2.3	0.0
110.8	82.5°	94.5	22.2	7.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0
28.0	85°	36.2	8.2	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.3	87.5°	14.0	1.2	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>
2881.9
2843.4
2500.4
1989.3
1336.0
803.9
596.2
558.9
533.2
498.2
452.7
408.4
362.9
309.2
259.0
220.5
200.7
189.0
180.8
173.8
166.8
157.5
148.2
137.7
121.3
95.7
70.0
59.5
46.7
35.0
21.0
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