

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: P953753

Luminaire Tested: **GALN-SB7A-950-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953753
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
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-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17094 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

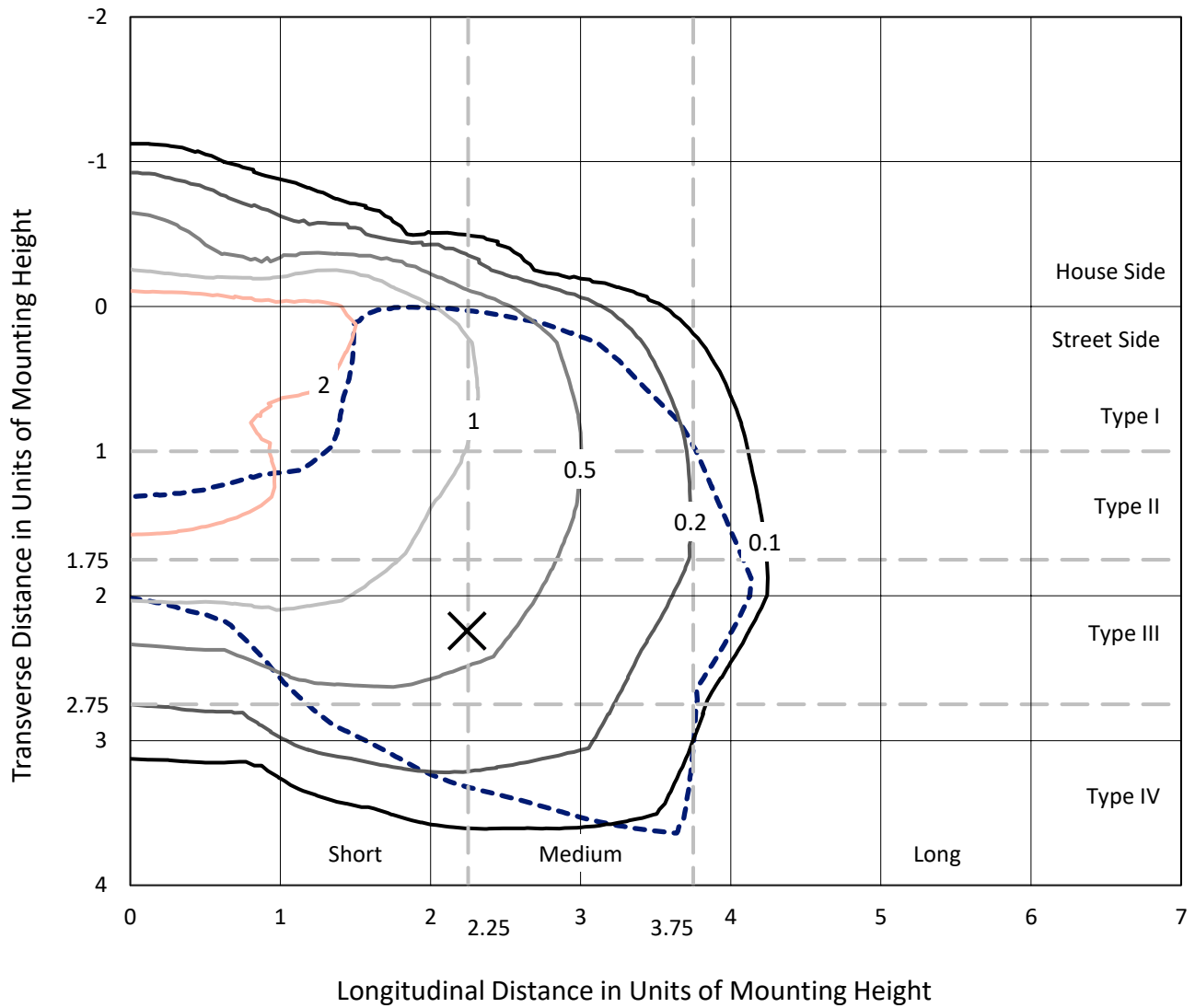
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

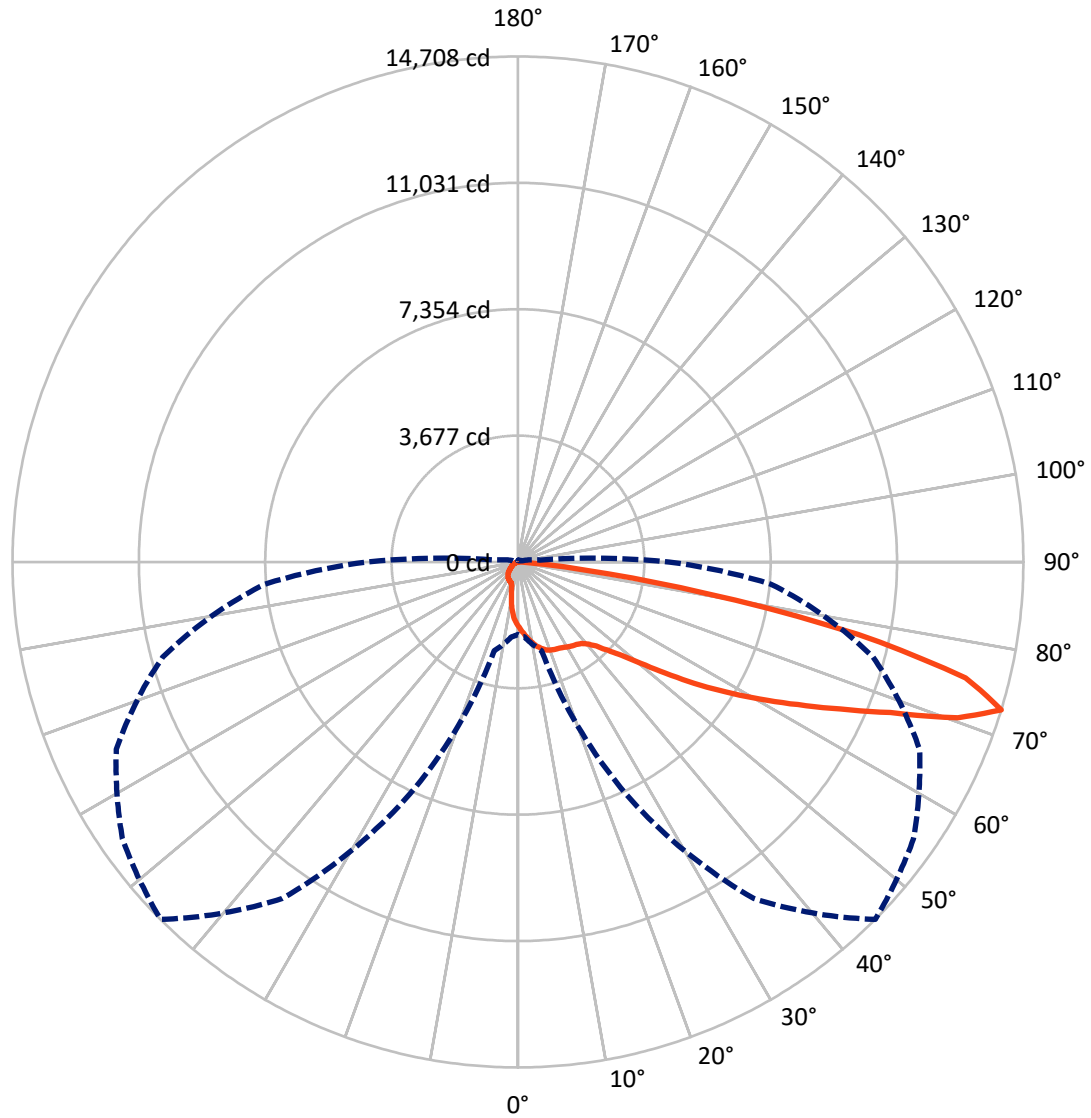
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1796.1	0.0	1796.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	15297.9	0.0	15297.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	17094.0	0.0	17094.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.4	1.0
10°-20°	515.7	3.0
20°-30°	846.8	5.0
30°-40°	1201.0	7.0
40°-50°	1985.1	11.6
50°-60°	3566.0	20.9
60°-70°	4951.6	29.0
70°-80°	3591.7	21.0
80°-90°	259.7	1.5
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°	17094.0	100.0
0°-180°	17094.0	100.0

Coefficient of Utilization



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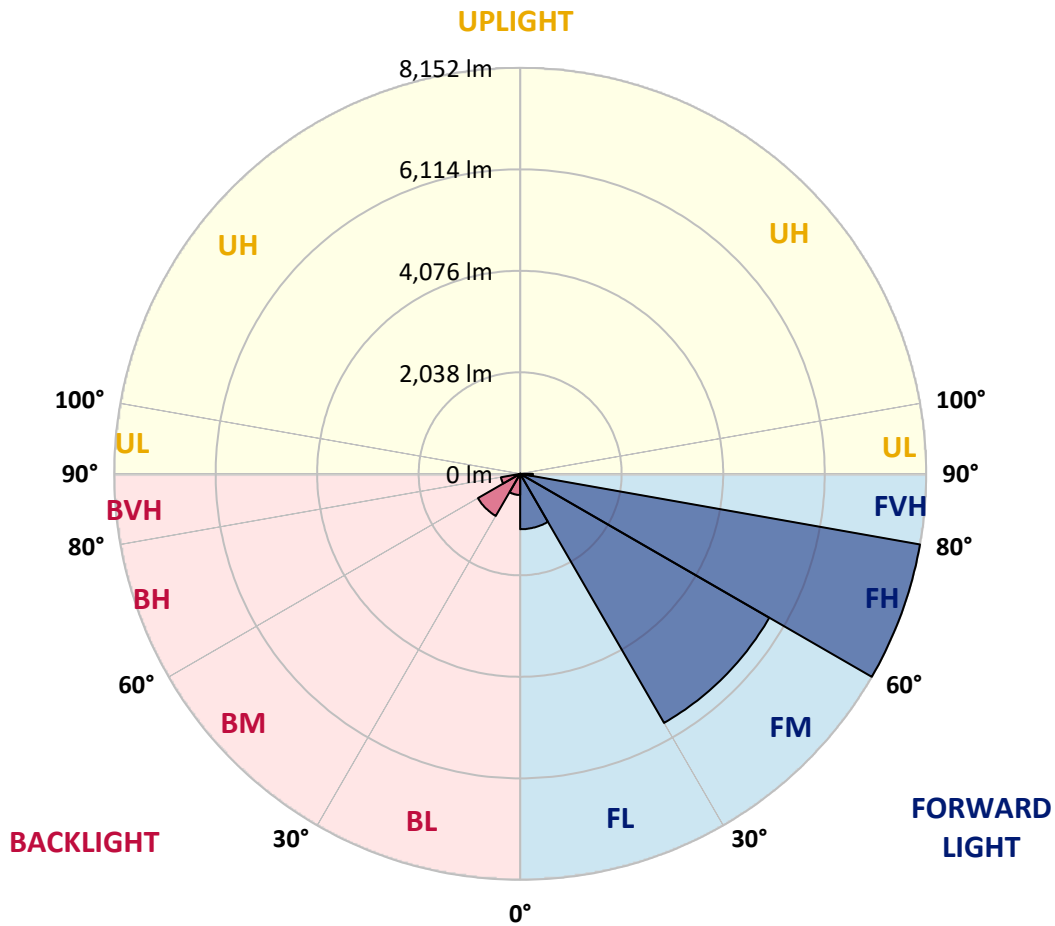
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1113.5	6.5			
FM (30°-60°)	5775.3	33.8			
FH (60°-80°)	8151.6	47.7			G4/12000
FVH (80°-90°)	257.5	1.5			G3/500
BL (0°-30°)	425.4	2.5	B1/500		
BM (30°-60°)	976.8	5.7	B1/1000		
BH (60°-80°)	391.7	2.3	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: B1-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1872.7	1872.7	1872.7	1872.7	1872.7	1872.7	1872.7	1872.7	1872.7	1872.7
2.5°	2045.4	2048.9	2046.5	2032.5	2009.2	1996.4	1989.4	1966.0	1950.9	1924.0
5°	2233.2	2247.2	2239.1	2211.1	2166.7	2135.2	2125.9	2078.0	2034.9	1984.7
7.5°	2432.7	2439.7	2424.6	2388.4	2328.9	2275.2	2267.1	2200.5	2131.7	2054.7
10°	2605.4	2613.6	2590.3	2537.7	2470.1	2403.6	2391.9	2318.4	2236.7	2142.2
12.5°	2750.1	2758.3	2727.9	2664.9	2590.3	2521.4	2509.7	2432.7	2342.9	2237.9
15°	2859.8	2874.9	2834.1	2766.4	2685.9	2617.1	2611.3	2535.4	2447.9	2331.2
17.5°	2924.0	2939.1	2900.6	2818.9	2750.1	2691.8	2684.8	2621.8	2540.1	2428.1
20°	2934.5	2948.5	2907.6	2836.4	2779.3	2732.6	2729.1	2683.6	2624.1	2516.7
22.5°	2903.0	2920.5	2883.1	2825.9	2786.3	2761.8	2757.1	2731.4	2697.6	2606.6
25°	2870.3	2884.3	2856.3	2806.1	2785.1	2782.8	2786.3	2781.6	2774.6	2697.6
27.5°	2867.9	2883.1	2851.6	2803.8	2792.1	2816.6	2820.1	2842.3	2848.1	2780.4
30°	2887.8	2898.3	2867.9	2817.8	2811.9	2867.9	2869.1	2908.8	2918.1	2850.4
32.5°	2931.0	2942.6	2912.3	2838.8	2830.6	2908.8	2912.3	2964.8	2980.0	2925.1
35°	3032.5	3046.5	3011.5	2897.1	2867.9	2947.3	2957.8	3019.6	3050.0	3004.5
37.5°	3285.7	3244.8	3197.0	3015.0	2953.1	3008.0	3025.5	3097.8	3151.5	3099.0
40°	3914.6	3786.2	3636.9	3215.6	3102.5	3137.5	3151.5	3223.8	3297.3	3246.0
42.5°	4858.5	4706.8	4466.4	3677.7	3327.7	3345.2	3355.7	3418.7	3522.5	3481.7
45°	5699.7	5644.9	5399.9	4466.4	3748.9	3662.5	3675.4	3708.0	3860.9	3845.7
47.5°	6346.1	6314.6	6125.6	5371.9	4460.6	4051.1	4087.2	4102.4	4322.9	4376.6
50°	6843.2	6831.5	6662.3	6176.9	5390.5	4624.0	4636.8	4604.1	4934.3	5067.3
52.5°	7312.2	7351.9	7227.0	6924.8	6383.5	5374.2	5371.9	5217.8	5663.6	5864.2
55°	7735.8	7749.8	7762.6	7687.9	7382.2	6228.3	6206.1	5954.1	6509.5	6717.2
57.5°	8133.6	8139.5	8253.8	8406.7	8421.8	7145.4	7104.5	6802.3	7433.6	7581.7
60°	8400.8	8427.7	8669.2	9093.9	9279.4	8091.6	8069.5	7761.4	8374.0	8442.8
62.5°	8015.8	8179.1	8788.2	9630.6	10089.2	9140.6	9130.1	8840.7	9363.4	9307.4
65°	6488.5	6765.0	7836.1	9993.5	10883.7	10312.0	10327.2	10019.2	10379.7	10197.7
67.5°	4538.8	4830.5	6097.6	10022.7	11771.7	11687.6	11775.2	11292.1	11459.0	11050.6
70°	3138.6	3289.2	4114.1	9394.9	12463.6	13582.5	13580.2	12855.6	12532.4	11439.1
72.5°	2110.7	2188.9	2671.9	7453.4	11954.8	14708.4	14640.8	14050.4	12894.1	10698.2
75°	890.3	947.4	1236.8	4188.7	9457.9	13456.5	13273.3	12416.9	11456.6	8424.2
77.5°	282.4	306.9	487.7	1499.3	5209.7	10114.8	9921.1	7754.4	7678.6	4226.1
80°	134.2	156.3	274.2	602.1	2050.0	5501.4	5474.5	3517.8	3303.2	1141.1
82.5°	58.3	68.8	151.7	322.0	917.1	1962.5	2002.2	1197.1	990.6	432.9
85°	18.7	24.5	70.0	148.2	387.4	487.7	481.9	284.7	399.0	235.7
87.5°	0.0	0.0	23.3	33.8	39.7	28.0	31.5	24.5	110.8	65.3
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°
1872.7	0°	1872.7	1872.7	1872.7	1872.7	1872.7	1872.7	1872.7	1872.7	1872.7	1872.7
1896.0	2.5°	1882.0	1863.3	1830.7	1800.3	1773.5	1746.7	1730.3	1707.0	1704.7	1704.7
1926.4	5°	1894.9	1864.5	1806.2	1744.3	1673.2	1605.5	1537.8	1472.5	1451.5	1436.3
1975.4	7.5°	1932.2	1884.4	1792.2	1674.3	1539.0	1390.8	1287.0	1174.9	1131.8	1108.4
2040.7	10°	1985.9	1920.5	1780.5	1574.0	1354.6	1152.8	1004.6	883.3	836.6	816.7
2111.9	12.5°	2045.4	1964.9	1759.5	1449.1	1152.8	911.3	766.6	710.6	703.6	703.6
2197.0	15°	2116.5	2018.5	1723.3	1302.1	941.6	721.1	669.7	672.1	679.1	683.7
2279.9	17.5°	2190.0	2075.7	1666.2	1137.6	754.9	648.7	649.9	653.4	659.2	663.9
2369.7	20°	2269.4	2132.9	1590.3	962.6	647.6	627.7	631.2	634.7	639.4	641.7
2453.7	22.5°	2354.6	2186.5	1500.5	791.1	611.4	610.2	611.4	614.9	620.7	620.7
2551.8	25°	2445.6	2246.1	1397.8	666.2	592.7	592.7	595.1	597.4	602.1	602.1
2646.3	27.5°	2538.9	2300.9	1289.3	600.9	576.4	575.2	575.2	578.7	581.1	582.2
2739.6	30°	2641.6	2365.1	1180.8	586.9	563.6	557.7	554.2	556.6	558.9	560.1
2837.6	32.5°	2746.6	2426.9	1083.9	592.7	550.7	540.2	528.6	526.2	526.2	530.9
2939.1	35°	2863.3	2494.6	1009.3	612.6	543.7	514.6	495.9	485.4	486.5	493.5
3060.5	37.5°	3003.3	2576.3	954.4	630.1	539.1	485.4	455.0	442.2	434.0	442.2
3227.3	40°	3186.5	2696.4	914.8	644.1	533.2	451.5	410.7	389.7	374.5	379.2
3486.3	42.5°	3456.0	2885.5	899.6	645.2	520.4	411.9	365.2	337.2	315.0	316.2
3876.0	45°	3834.0	3184.1	977.8	630.1	492.4	368.7	317.4	280.0	266.0	262.5
4458.3	47.5°	4352.1	3619.4	1158.6	598.6	451.5	326.7	270.7	239.2	228.7	222.9
5222.5	50°	5046.3	4178.2	1359.3	563.6	410.7	287.0	232.2	212.4	205.4	199.5
6129.1	52.5°	5851.4	4745.3	1523.8	528.6	369.9	252.0	207.7	196.0	190.2	185.5
7004.2	55°	6590.0	5136.2	1514.5	491.2	330.2	224.0	190.2	183.2	176.2	171.5
7757.9	57.5°	7049.7	5191.0	1248.5	450.4	284.7	201.9	173.9	169.2	161.0	155.2
8410.2	60°	7260.9	4878.3	875.1	396.7	239.2	180.9	156.3	154.0	143.5	135.3
9027.4	62.5°	7299.4	4297.3	583.4	330.2	199.5	161.0	138.8	135.3	121.3	107.3
9529.1	65°	7143.0	3466.5	403.7	257.9	170.4	140.0	119.0	112.0	96.8	82.8
9648.1	67.5°	6648.3	2433.9	281.2	185.5	144.7	110.8	94.5	92.2	80.5	68.8
9041.4	70°	5741.7	1387.3	187.9	138.8	114.3	75.8	74.7	77.0	65.3	56.0
7386.9	72.5°	4402.3	634.7	116.7	101.5	78.2	51.3	59.5	60.7	50.2	42.0
4608.8	75°	2591.4	271.9	73.5	65.3	39.7	33.8	43.2	44.3	33.8	26.8
1684.8	77.5°	882.1	102.7	46.7	38.5	19.8	18.7	28.0	28.0	18.7	10.5
338.4	80°	200.7	38.5	23.3	15.2	9.3	8.2	9.3	8.2	4.7	1.2
103.8	82.5°	57.2	15.2	9.3	5.8	3.5	3.5	1.2	0.0	0.0	0.0
36.2	85°	16.3	7.0	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
12.8	87.5°	7.0	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>
1872.7
1710.5
1443.3
1111.9
816.7
703.6
683.7
663.9
642.9
623.1
603.2
583.4
562.4
534.4
497.0
439.9
376.9
311.5
257.9
219.4
198.4
184.4
169.2
154.0
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