

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: P940668

Luminaire Tested: **GALN-SB3D-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940668
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20772 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

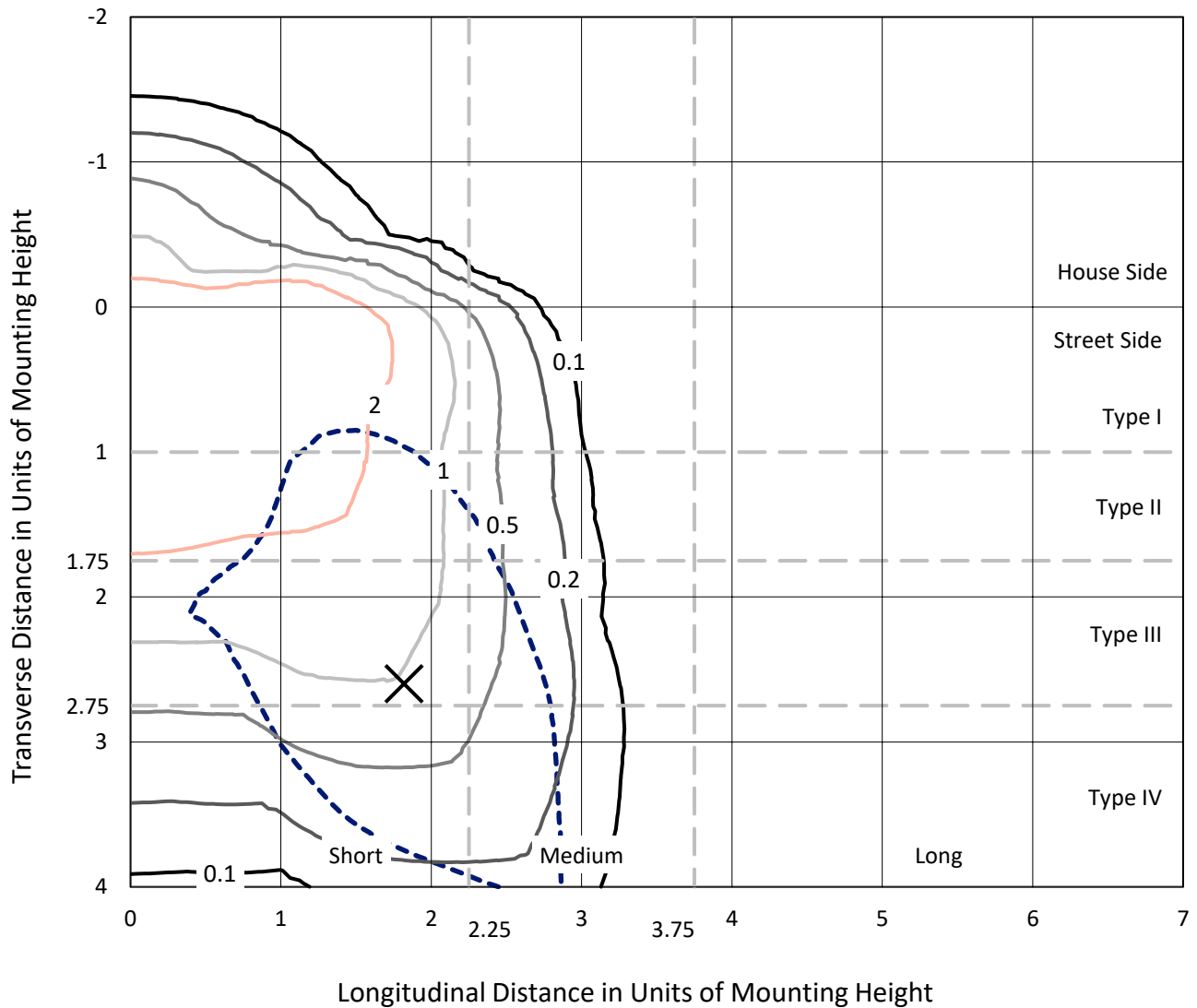
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

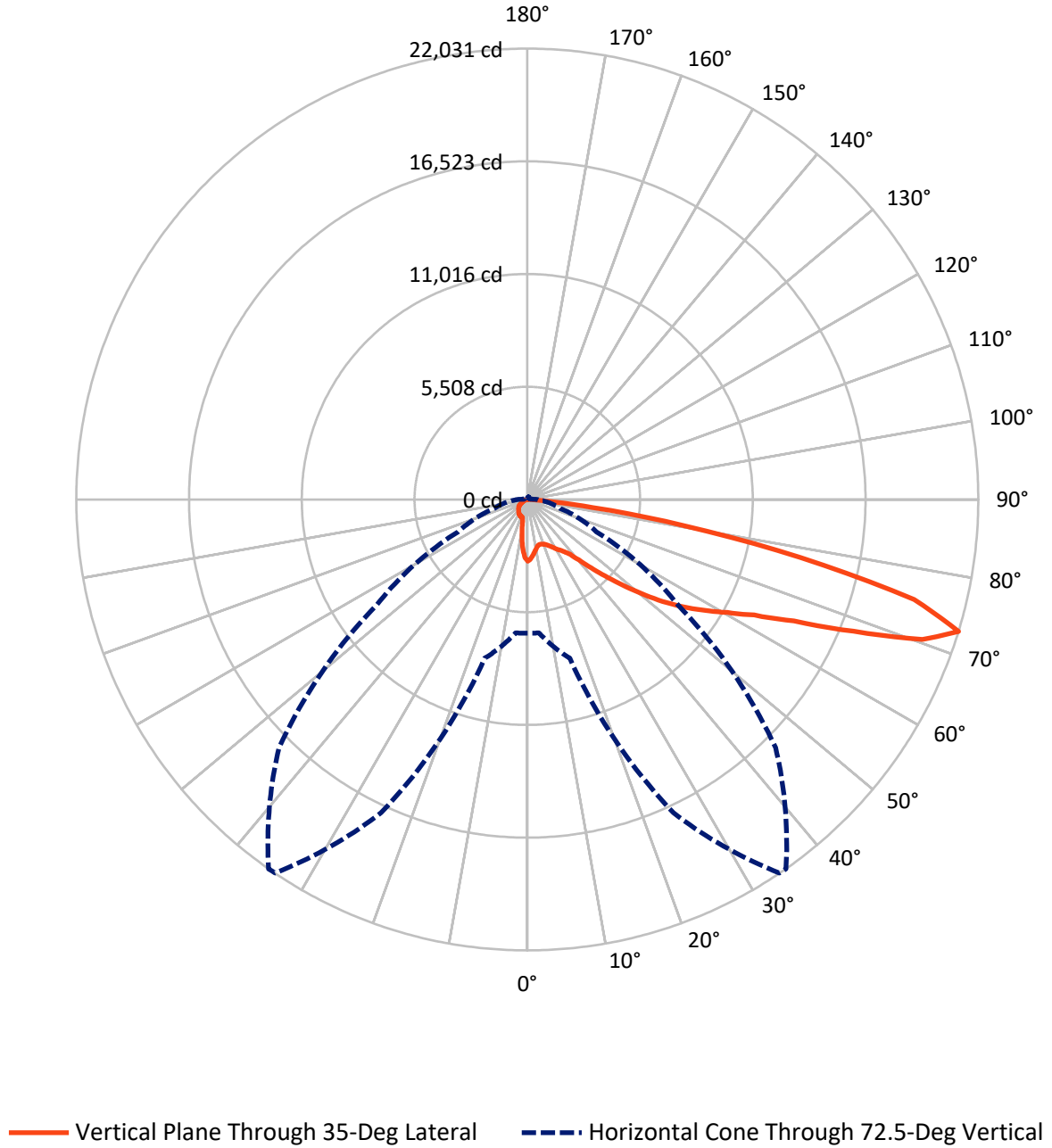
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2337.8	0.0	2337.8
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	18434.2	0.0	18434.2
	% Fixture	88.7	0.0	88.7
Total	Lumens	20772.0	0.0	20772.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.4	1.2
10°-20°	578.7	2.8
20°-30°	940.1	4.5
30°-40°	1568.6	7.6
40°-50°	2967.9	14.3
50°-60°	4715.9	22.7
60°-70°	5833.9	28.1
70°-80°	3626.4	17.5
80°-90°	293.1	1.4
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°	20772.0	100.0
0°-180°	20772.0	100.0

Coefficient of Utilization



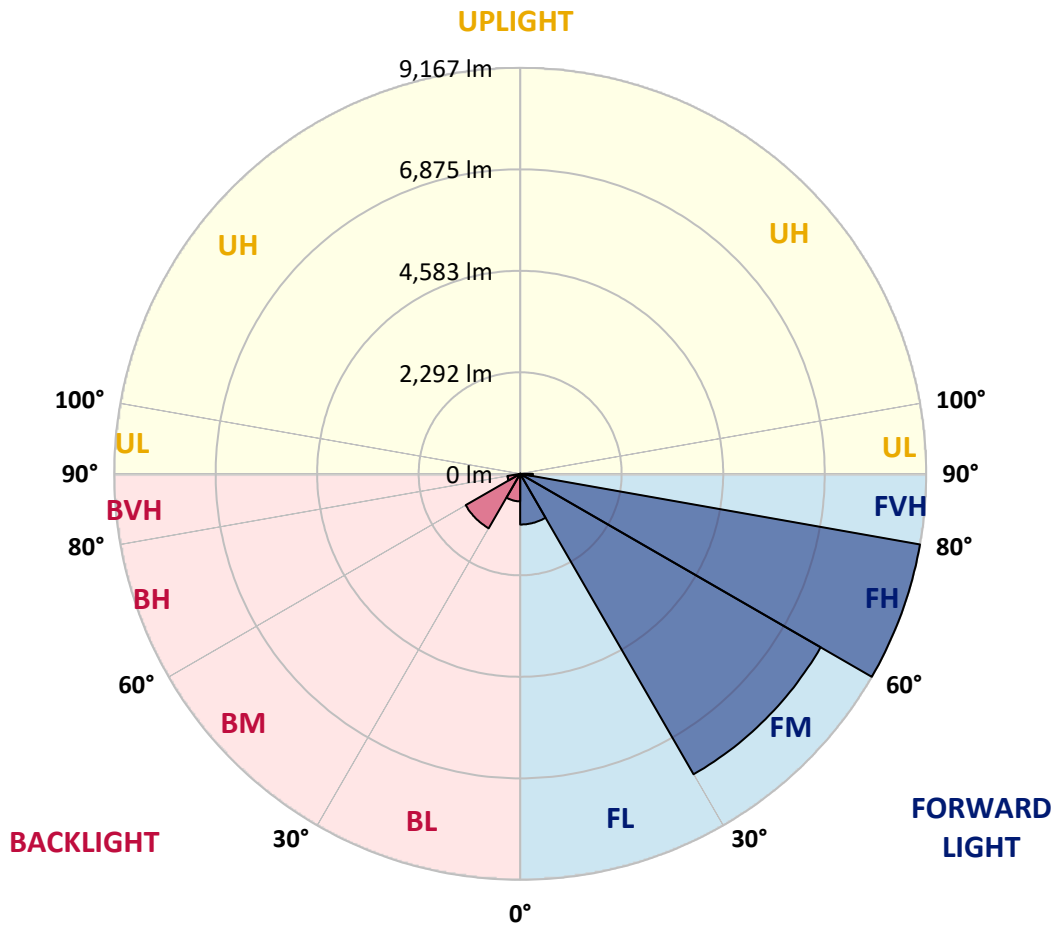
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1145.1	5.5			
FM (30°-60°)	7833.1	37.7			
FH (60°-80°)	9166.9	44.1			G4/12000
FVH (80°-90°)	289.1	1.4			G3/500
BL (0°-30°)	621.2	3.0	B2/1000		
BM (30°-60°)	1419.3	6.8	B2/2500		
BH (60°-80°)	293.4	1.4	B1/500		G1/500
BVH (80°-90°)	4.0	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	3010.6	3010.6	3010.6	3010.6	3010.6	3010.6	3010.6	3010.6	3010.6	3010.6
2.5°	2876.6	2901.0	2905.5	2913.1	2913.1	2922.3	2937.5	2958.8	2993.8	3012.1
5°	2651.4	2669.6	2692.5	2710.7	2745.7	2750.3	2809.7	2867.5	2948.2	3009.0
7.5°	2424.6	2445.9	2476.3	2520.5	2566.1	2579.8	2669.6	2767.0	2894.9	3009.0
10°	2264.8	2266.3	2293.7	2337.8	2410.9	2427.6	2537.2	2675.7	2835.5	2990.8
12.5°	2175.0	2185.6	2197.8	2231.3	2301.3	2312.0	2429.1	2592.0	2776.2	2980.1
15°	2175.0	2182.6	2190.2	2206.9	2263.2	2272.4	2375.9	2538.7	2745.7	2984.7
17.5°	2197.8	2210.0	2203.9	2223.7	2283.0	2289.1	2380.4	2523.5	2744.2	3013.6
20°	2252.6	2261.7	2249.5	2261.7	2321.1	2333.3	2427.6	2552.4	2770.1	3063.8
22.5°	2339.3	2343.9	2315.0	2324.1	2385.0	2400.2	2509.8	2634.6	2832.5	3144.5
25°	2448.9	2458.1	2413.9	2424.6	2482.4	2500.7	2627.0	2757.9	2931.4	3255.6
27.5°	2575.3	2579.8	2541.8	2540.3	2614.8	2640.7	2768.6	2910.1	3063.8	3395.6
30°	2719.9	2733.6	2697.0	2690.9	2785.3	2806.6	2932.9	3097.3	3258.6	3605.7
32.5°	2834.0	2844.7	2823.4	2838.6	2934.5	2951.2	3132.3	3362.1	3564.6	3904.0
35°	2998.4	3004.5	2955.8	2983.2	3092.7	3135.4	3404.8	3733.5	3949.6	4278.4
37.5°	3593.5	3593.5	3386.5	3251.0	3356.1	3394.1	3777.7	4200.8	4424.5	4780.7
40°	4416.9	4403.2	4100.3	3823.3	3809.6	3884.2	4308.8	4789.8	5037.9	5383.4
42.5°	5295.1	5273.8	4861.3	4587.4	4541.7	4567.6	4922.2	5515.8	5768.5	6118.5
45°	6074.4	6068.3	5690.8	5322.5	5240.3	5322.5	5687.8	6365.1	6546.2	6914.5
47.5°	6727.3	6727.3	6451.9	6211.4	6168.8	6217.5	6724.3	7307.2	7290.5	7762.3
50°	7479.2	7473.1	7211.3	7107.8	7152.0	7220.5	7917.6	8299.6	8060.6	8594.9
52.5°	8005.8	8042.4	7952.6	7935.8	8161.1	8279.8	9129.1	9270.6	8750.1	9384.8
55°	8422.9	8465.5	8569.0	8686.2	9120.0	9275.2	10302.6	10191.5	9326.9	10069.7
57.5°	9013.4	8952.5	9112.3	9343.7	10045.3	10232.6	11439.5	11060.5	9791.2	10625.2
60°	9730.3	9739.4	9766.8	10059.0	10969.2	11209.7	12559.7	11882.4	10089.5	10966.2
62.5°	10591.8	10605.4	10661.8	11110.8	12209.7	12436.4	13753.0	12555.2	10226.5	10870.3
65°	10532.4	10590.2	11218.8	12754.5	14095.4	14319.2	15145.6	13027.0	10019.5	9993.6
67.5°	9594.8	9689.2	10740.9	14718.0	16938.6	17188.2	16829.0	13119.8	9126.0	7771.4
70°	8365.0	8398.5	9663.3	16483.5	20230.7	20483.4	18335.8	12098.6	6925.2	4334.7
72.5°	6532.5	6540.1	8024.1	16892.9	22017.6	22031.3	17153.2	8981.5	3724.4	1665.1
75°	4666.5	4620.9	5374.3	13699.7	19370.8	19526.0	12859.6	4213.0	1423.1	786.9
77.5°	2502.2	2552.4	3041.0	8124.6	13381.6	13646.4	7016.5	1214.6	724.5	535.8
80°	773.2	815.8	1246.5	3719.8	7579.7	7739.5	2601.1	540.3	505.3	382.0
82.5°	243.5	252.7	581.4	1563.1	3146.0	3219.1	753.4	305.9	345.5	252.7
85°	70.0	71.5	258.7	582.9	777.8	793.0	211.6	118.7	197.9	156.8
87.5°	7.6	24.4	97.4	97.4	68.5	67.0	22.8	25.9	56.3	19.8
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°
3010.6	0°	3010.6	3010.6	3010.6	3010.6	3010.6	3010.6	3010.6	3010.6	3010.6	3010.6
3024.3	2.5°	3016.6	3018.2	2998.4	2964.9	2928.4	2897.9	2859.9	2829.4	2808.1	2802.0
3051.7	5°	3038.0	3027.3	2971.0	2869.0	2747.2	2642.2	2525.0	2432.2	2371.3	2345.4
3080.6	7.5°	3069.9	3039.5	2916.2	2715.3	2482.4	2275.4	2065.4	1902.5	1799.0	1747.3
3108.0	10°	3097.3	3036.4	2824.9	2493.1	2136.9	1823.4	1540.3	1343.9	1234.4	1182.6
3139.9	12.5°	3123.2	3034.9	2706.2	2229.8	1747.3	1363.7	1100.4	1003.0	972.6	961.9
3191.7	15°	3171.9	3039.5	2557.0	1928.4	1359.2	1030.4	934.5	933.0	939.1	936.0
3270.8	17.5°	3238.9	3044.0	2388.1	1608.8	1048.7	908.6	904.1	917.8	926.9	922.3
3369.8	20°	3325.6	3062.3	2208.5	1292.2	901.0	878.2	888.9	901.0	908.6	901.0
3502.2	22.5°	3447.4	3094.3	2012.1	1038.0	853.9	859.9	869.1	882.8	890.4	879.7
3671.1	25°	3596.5	3144.5	1818.8	902.6	831.0	838.6	852.3	867.6	876.7	866.0
3884.2	27.5°	3789.8	3225.2	1640.7	872.1	808.2	812.8	832.5	855.4	867.6	853.9
4187.1	30°	4069.9	3357.6	1487.0	885.8	794.5	783.8	811.2	843.2	856.9	844.7
4599.6	32.5°	4441.3	3544.8	1392.7	907.1	788.4	750.4	776.2	817.3	840.2	832.5
5138.3	35°	4928.3	3829.4	1356.1	931.5	783.8	715.4	733.6	777.8	817.3	824.9
5817.2	37.5°	5518.9	4225.1	1366.8	942.1	770.1	686.4	695.6	733.6	785.4	809.7
6581.2	40°	6190.1	4686.3	1427.7	931.5	754.9	662.1	663.6	692.5	738.2	774.7
7403.1	42.5°	6882.6	5225.1	1540.3	891.9	741.2	640.8	636.2	656.0	686.4	712.3
8223.5	45°	7541.6	5779.1	1651.4	837.1	724.5	619.5	608.8	616.4	622.5	633.2
9022.5	47.5°	8116.9	6168.8	1619.4	786.9	701.7	595.1	576.8	573.8	555.5	554.0
9736.4	50°	8514.2	6254.0	1438.3	736.7	668.2	567.7	538.8	520.5	488.6	473.3
10270.6	52.5°	8640.5	5917.6	1175.0	686.4	613.4	531.2	490.1	461.2	421.6	407.9
10578.1	55°	8473.1	5258.6	939.1	625.6	537.3	482.5	436.8	398.8	366.8	350.1
10611.5	57.5°	8063.7	4420.0	742.7	554.0	456.6	427.7	382.0	344.0	316.6	299.8
10240.2	60°	7384.9	3509.8	587.5	468.8	389.6	368.3	321.1	296.8	272.4	252.7
9281.3	62.5°	6354.4	2505.2	461.2	371.4	325.7	301.4	274.0	255.7	226.8	199.4
7556.8	65°	4958.7	1532.7	356.2	272.4	261.8	249.6	232.9	216.1	181.1	153.7
4929.8	67.5°	3127.8	726.0	254.2	205.5	207.0	200.9	193.3	179.6	153.7	129.4
2208.5	70°	1377.4	351.6	167.4	156.8	153.7	153.7	159.8	155.2	130.9	108.1
767.1	72.5°	468.8	188.7	124.8	118.7	111.1	109.6	133.9	129.4	105.0	83.7
382.0	75°	245.0	126.3	91.3	85.2	67.0	80.7	106.5	100.5	74.6	54.8
252.7	77.5°	159.8	89.8	62.4	54.8	38.1	53.3	79.1	70.0	44.1	27.4
165.9	80°	100.5	59.4	36.5	25.9	18.3	28.9	42.6	30.4	16.7	6.1
97.4	82.5°	53.3	30.4	13.7	9.1	7.6	9.1	10.7	7.6	3.0	0.0
50.2	85°	21.3	10.7	4.6	3.0	1.5	0.0	3.0	1.5	0.0	0.0
9.1	87.5°	7.6	1.5	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>
3010.6
2812.7
2354.6
1754.9
1184.1
958.9
934.5
920.8
899.5
878.2
864.5
853.9
843.2
832.5
824.9
815.8
786.9
723.0
639.2
552.5
474.9
406.4
350.1
296.8
248.1
194.8
149.2
126.3
103.5
79.1
50.2
24.4
4.6
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