

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: P948944

Luminaire Tested: **GALN-SB3D-830-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948944
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-SB3D-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 900mA 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: 21132 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

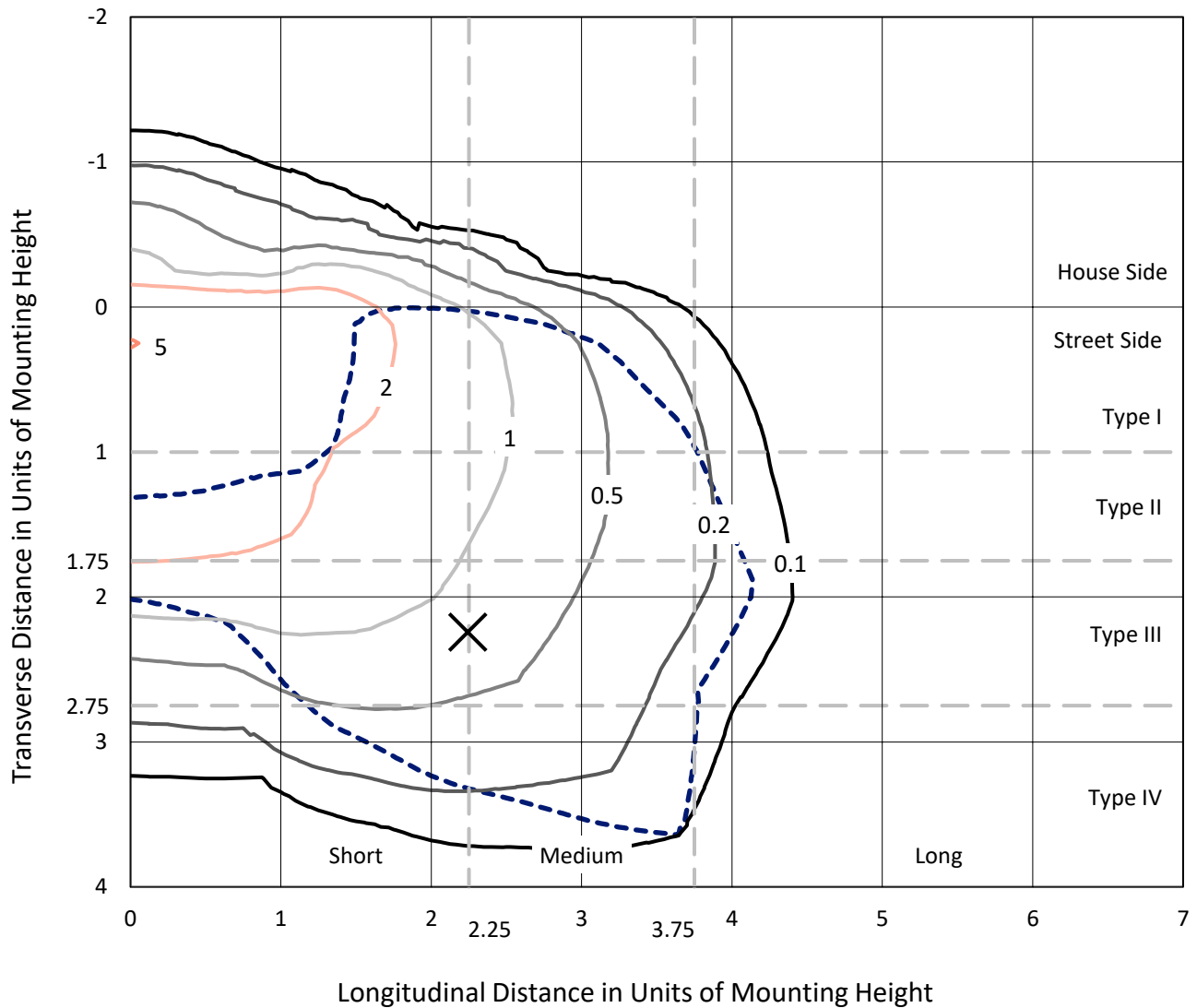
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

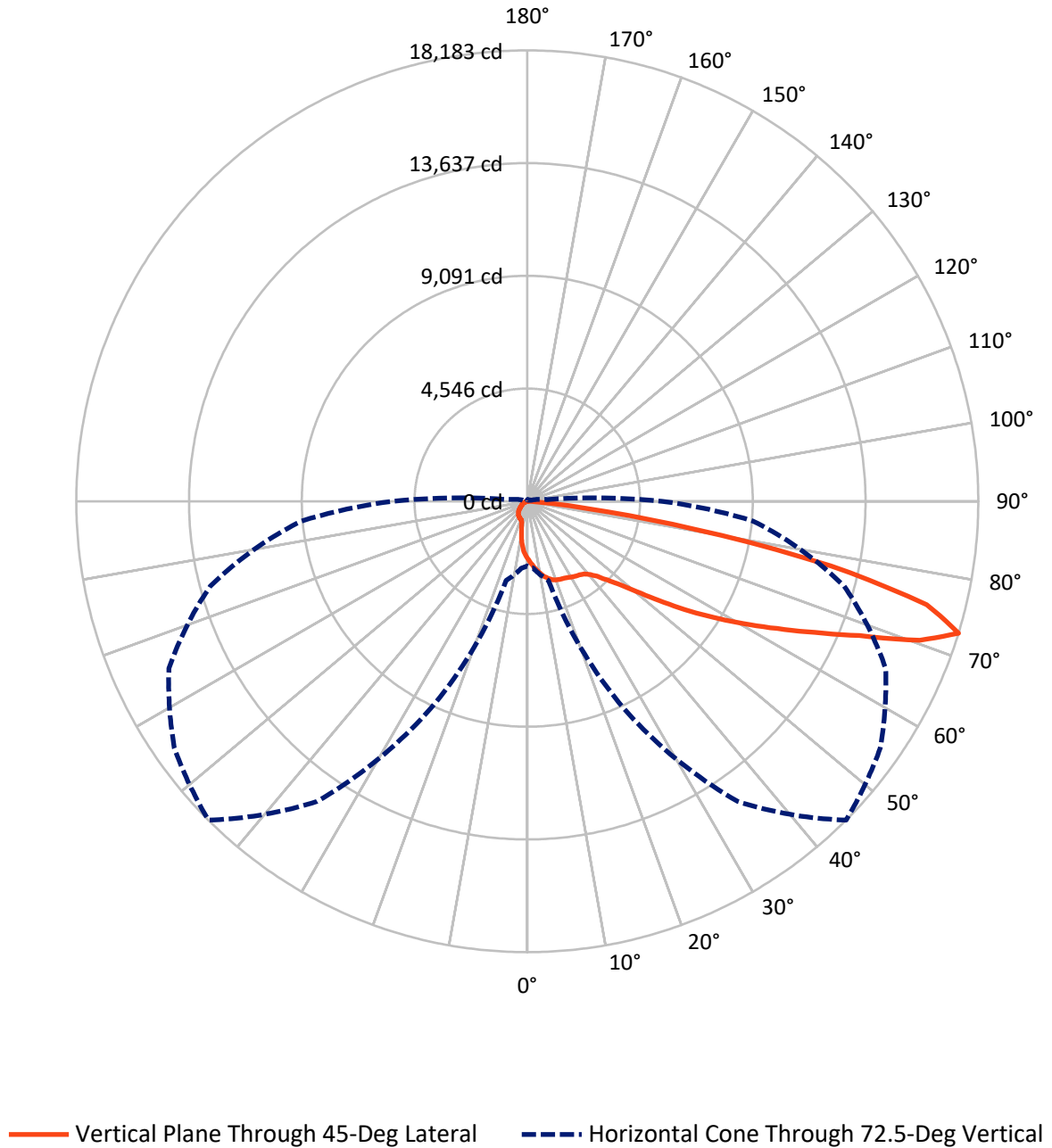
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	2220.4	0.0	2220.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	18911.6	0.0	18911.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	21132.0	0.0	21132.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.1	1.0
10°-20°	637.5	3.0
20°-30°	1046.9	5.0
30°-40°	1484.7	7.0
40°-50°	2454.0	11.6
50°-60°	4408.4	20.9
60°-70°	6121.3	29.0
70°-80°	4440.2	21.0
80°-90°	321.0	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°	21132.0	100.0
0°-180°	21132.0	100.0

Coefficient of Utilization



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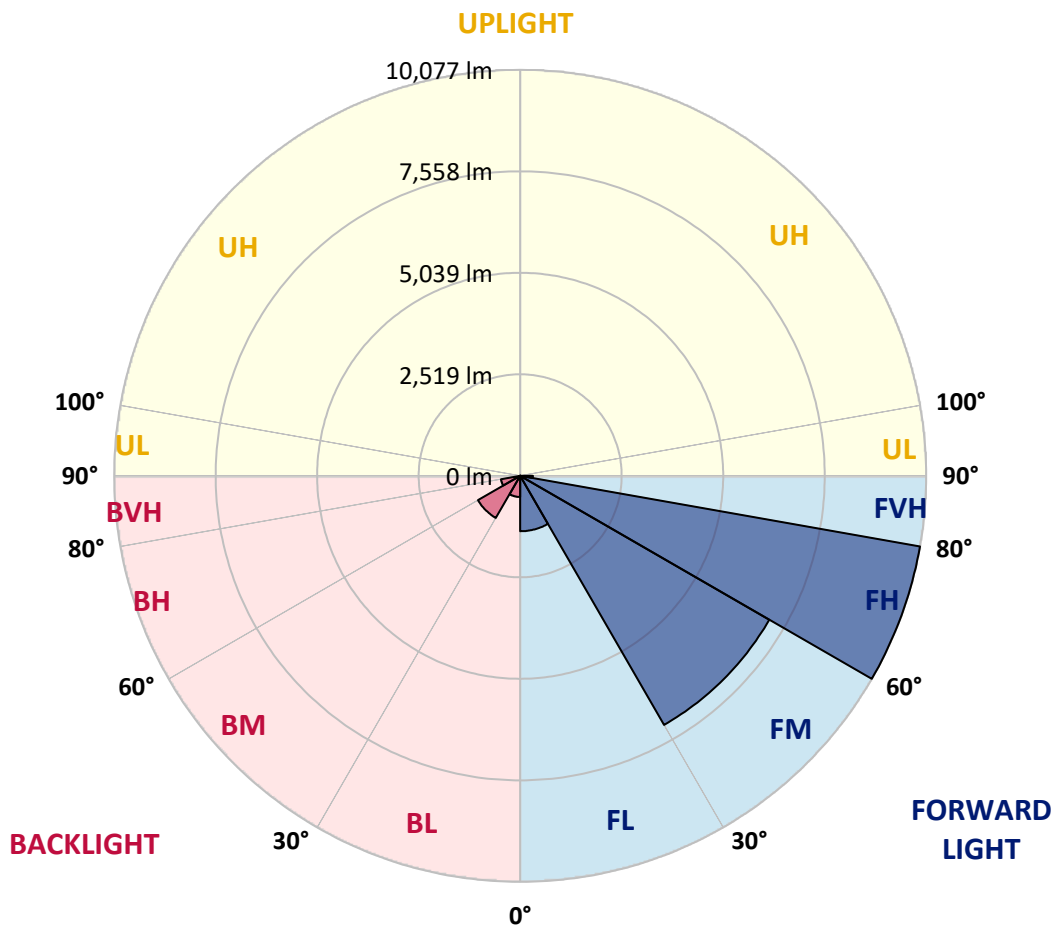
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1376.5	6.5			
FM (30°-60°)	7139.5	33.8			
FH (60°-80°)	10077.2	47.7			G4/12000
FVH (80°-90°)	318.3	1.5			G3/500
BL (0°-30°)	525.9	2.5	B2/1000		
BM (30°-60°)	1207.6	5.7	B2/2500		
BH (60°-80°)	484.2	2.3	B1/500		G1/500
BVH (80°-90°)	2.7	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°	35°	45°	46°	55°	65°	75°
0°	2315.1	2315.1	2315.1	2315.1	2315.1	2315.1	2315.1	2315.1	2315.1	2315.1
2.5°	2528.5	2532.9	2530.0	2512.7	2483.8	2468.0	2459.3	2430.4	2411.7	2378.5
5°	2760.8	2778.1	2768.0	2733.4	2678.5	2639.6	2628.1	2568.9	2515.5	2453.5
7.5°	3007.4	3016.1	2997.3	2952.6	2879.0	2812.7	2802.6	2720.4	2635.3	2540.1
10°	3220.9	3231.0	3202.1	3137.2	3053.6	2971.3	2956.9	2866.1	2765.1	2648.3
12.5°	3399.7	3409.8	3372.3	3294.4	3202.1	3117.0	3102.6	3007.4	2896.3	2766.5
15°	3535.3	3554.1	3503.6	3419.9	3320.4	3235.3	3228.1	3134.3	3026.2	2881.9
17.5°	3614.7	3633.4	3585.8	3484.8	3399.7	3327.6	3319.0	3241.1	3140.1	3001.6
20°	3627.6	3645.0	3594.5	3506.5	3435.8	3378.1	3373.8	3317.5	3244.0	3111.3
22.5°	3588.7	3610.3	3564.2	3493.5	3444.5	3414.2	3408.4	3376.7	3334.8	3222.3
25°	3548.3	3565.6	3531.0	3469.0	3443.0	3440.1	3444.5	3438.7	3430.0	3334.8
27.5°	3545.4	3564.2	3525.2	3466.1	3451.7	3482.0	3486.3	3513.7	3520.9	3437.2
30°	3569.9	3582.9	3545.4	3483.4	3476.2	3545.4	3546.9	3595.9	3607.4	3523.8
32.5°	3623.3	3637.7	3600.2	3509.4	3499.3	3595.9	3600.2	3665.1	3683.9	3616.1
35°	3748.8	3766.1	3722.8	3581.5	3545.4	3643.5	3656.5	3732.9	3770.4	3714.2
37.5°	4061.8	4011.3	3952.2	3727.2	3650.7	3718.5	3740.1	3829.6	3895.9	3831.0
40°	4839.3	4680.6	4496.0	3975.3	3835.3	3878.6	3895.9	3985.4	4076.2	4012.8
42.5°	6006.2	5818.7	5521.5	4546.5	4113.7	4135.4	4148.3	4226.2	4354.6	4304.1
45°	7046.1	6978.3	6675.4	5521.5	4634.4	4527.7	4543.6	4584.0	4772.9	4754.2
47.5°	7845.2	7806.3	7572.6	6640.8	5514.3	5008.0	5052.7	5071.5	5344.1	5410.5
50°	8459.7	8445.3	8236.1	7636.1	6663.9	5716.2	5732.1	5691.7	6099.9	6264.4
52.5°	9039.5	9088.6	8934.2	8560.7	7891.4	6643.7	6640.8	6450.4	7001.4	7249.5
55°	9563.1	9580.4	9596.3	9504.0	9126.1	7699.5	7672.1	7360.6	8047.2	8303.9
57.5°	10055.0	10062.2	10203.6	10392.5	10411.3	8833.3	8782.8	8409.2	9189.5	9372.7
60°	10385.3	10418.5	10717.0	11242.1	11471.4	10003.1	9975.7	9594.9	10352.1	10437.2
62.5°	9909.3	10111.2	10864.2	11905.6	12472.5	11299.8	11286.8	10929.1	11575.3	11506.0
65°	8021.2	8363.0	9687.2	12354.2	13454.7	12748.0	12766.7	12385.9	12831.6	12606.6
67.5°	5610.9	5971.5	7538.0	12390.2	14552.4	14448.5	14556.7	13959.6	14165.8	13661.0
70°	3880.1	4066.1	5085.9	11614.2	15407.7	16791.0	16788.1	15892.4	15492.8	14141.3
72.5°	2609.3	2705.9	3303.1	9214.1	14778.9	18182.9	18099.3	17369.4	15940.0	13225.4
75°	1100.6	1171.2	1528.9	5178.2	11692.1	16635.2	16408.8	15350.0	14162.9	10414.1
77.5°	349.1	379.4	602.9	1853.5	6440.3	12504.2	12264.7	9586.2	9492.4	5224.4
80°	165.9	193.3	339.0	744.3	2534.3	6800.9	6767.8	4348.8	4083.4	1410.7
82.5°	72.1	85.1	187.5	398.1	1133.7	2426.1	2475.2	1479.9	1224.6	535.1
85°	23.1	30.3	86.5	183.2	478.9	602.9	595.7	351.9	493.3	291.4
87.5°	0.0	0.0	28.8	41.8	49.0	34.6	38.9	30.3	137.0	80.8
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°
2315.1	0°	2315.1	2315.1	2315.1	2315.1	2315.1	2315.1	2315.1	2315.1	2315.1	2315.1
2343.9	2.5°	2326.6	2303.5	2263.1	2225.6	2192.5	2159.3	2139.1	2110.2	2107.3	2107.3
2381.4	5°	2342.5	2305.0	2232.8	2156.4	2068.4	1984.7	1901.1	1820.3	1794.3	1775.6
2442.0	7.5°	2388.6	2329.5	2215.5	2069.8	1902.5	1719.3	1591.0	1452.5	1399.1	1370.3
2522.8	10°	2455.0	2374.2	2201.1	1945.8	1674.6	1425.1	1241.9	1091.9	1034.2	1009.7
2610.7	12.5°	2528.5	2429.0	2175.1	1791.5	1425.1	1126.5	947.7	878.4	869.8	869.8
2716.0	15°	2616.5	2495.4	2130.4	1609.7	1164.0	891.4	827.9	830.8	839.5	845.2
2818.5	17.5°	2707.4	2566.0	2059.8	1406.3	933.2	802.0	803.4	807.7	815.0	820.7
2929.5	20°	2805.5	2636.7	1966.0	1190.0	800.5	776.0	780.3	784.7	790.4	793.3
3033.4	22.5°	2910.8	2703.1	1854.9	977.9	755.8	754.4	755.8	760.1	767.4	767.4
3154.5	25°	3023.3	2776.6	1728.0	823.6	732.7	732.7	735.6	738.5	744.3	744.3
3271.4	27.5°	3138.7	2844.4	1593.9	742.8	712.5	711.1	711.1	715.4	718.3	719.8
3386.8	30°	3265.6	2923.7	1459.7	725.5	696.7	689.5	685.1	688.0	690.9	692.4
3507.9	32.5°	3395.4	3000.2	1340.0	732.7	680.8	667.8	653.4	650.5	650.5	656.3
3633.4	35°	3539.7	3083.9	1247.7	757.3	672.2	636.1	613.0	600.0	601.5	610.1
3783.4	37.5°	3712.7	3184.8	1179.9	778.9	666.4	600.0	562.5	546.7	536.6	546.7
3989.7	40°	3939.2	3333.4	1130.8	796.2	659.2	558.2	507.7	481.8	463.0	468.8
4309.9	42.5°	4272.4	3567.1	1112.1	797.6	643.3	509.2	451.5	416.9	389.4	390.9
4791.7	45°	4739.7	3936.3	1208.7	778.9	608.7	455.8	392.3	346.2	328.9	324.5
5511.4	47.5°	5380.2	4474.3	1432.3	740.0	558.2	403.9	334.6	295.7	282.7	275.5
6456.2	50°	6238.4	5165.2	1680.4	696.7	507.7	354.8	287.0	262.5	253.9	246.7
7576.9	52.5°	7233.6	5866.2	1883.8	653.4	457.2	311.6	256.7	242.3	235.1	229.3
8658.7	55°	8146.7	6349.5	1872.2	607.3	408.2	276.9	235.1	226.5	217.8	212.0
9590.5	57.5°	8715.0	6417.2	1543.4	556.8	351.9	249.5	214.9	209.1	199.1	191.8
10396.8	60°	8976.1	6030.7	1081.8	490.4	295.7	223.6	193.3	190.4	177.4	167.3
11159.9	62.5°	9023.7	5312.4	721.2	408.2	246.7	199.1	171.6	167.3	150.0	132.7
11780.1	65°	8830.4	4285.4	499.1	318.8	210.6	173.1	147.1	138.5	119.7	102.4
11927.2	67.5°	8218.8	3008.9	347.6	229.3	178.9	137.0	116.8	113.9	99.5	85.1
11177.2	70°	7098.1	1715.0	232.2	171.6	141.4	93.8	92.3	95.2	80.8	69.2
9131.8	72.5°	5442.2	784.7	144.2	125.5	96.6	63.5	73.6	75.0	62.0	51.9
5697.5	75°	3203.6	336.1	90.9	80.8	49.0	41.8	53.4	54.8	41.8	33.2
2082.8	77.5°	1090.5	126.9	57.7	47.6	24.5	23.1	34.6	34.6	23.1	13.0
418.3	80°	248.1	47.6	28.8	18.8	11.5	10.1	11.5	10.1	5.8	1.4
128.4	82.5°	70.7	18.8	11.5	7.2	4.3	4.3	1.4	0.0	0.0	0.0
44.7	85°	20.2	8.7	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
15.9	87.5°	8.7	1.4	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>
2315.1
2114.6
1784.3
1374.6
1009.7
869.8
845.2
820.7
794.8
770.2
745.7
721.2
695.2
660.6
614.5
543.8
465.9
385.1
318.8
271.2
245.2
227.9
209.1
190.4
164.4
124.0
96.6
80.8
63.5
46.2
28.8
10.1
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