

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: P940616

Luminaire Tested: **GALN-SB3D-735-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940616
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23945 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

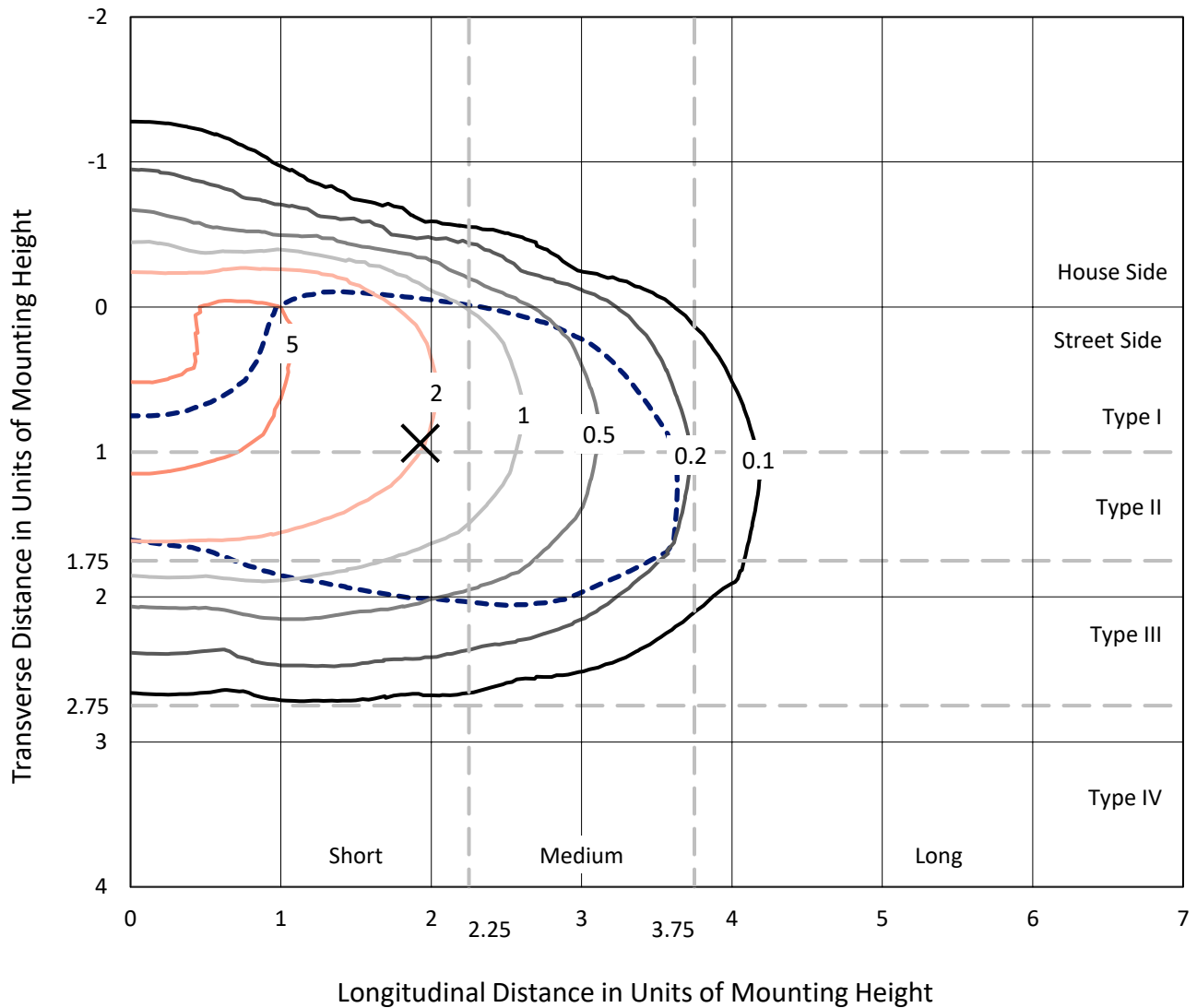
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

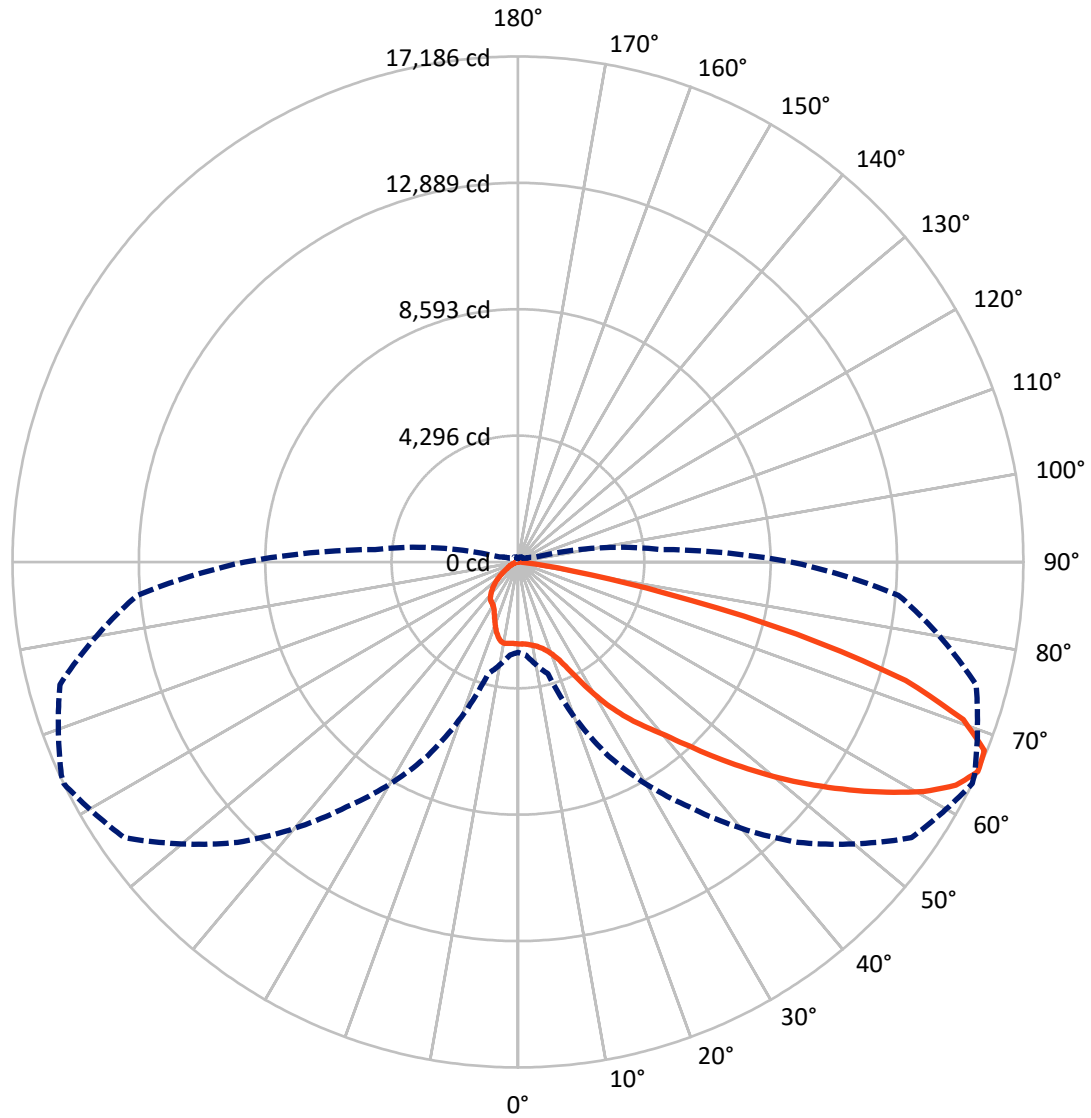
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3202.2	0.0	3202.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	20742.8	0.0	20742.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	23945.0	0.0	23945.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.0	1.1
10°-20°	696.9	2.9
20°-30°	1320.6	5.5
30°-40°	2672.3	11.2
40°-50°	4552.2	19.0
50°-60°	6190.7	25.9
60°-70°	5813.4	24.3
70°-80°	2329.1	9.7
80°-90°	112.8	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°	23945.0	100.0
0°-180°	23945.0	100.0

Coefficient of Utilization



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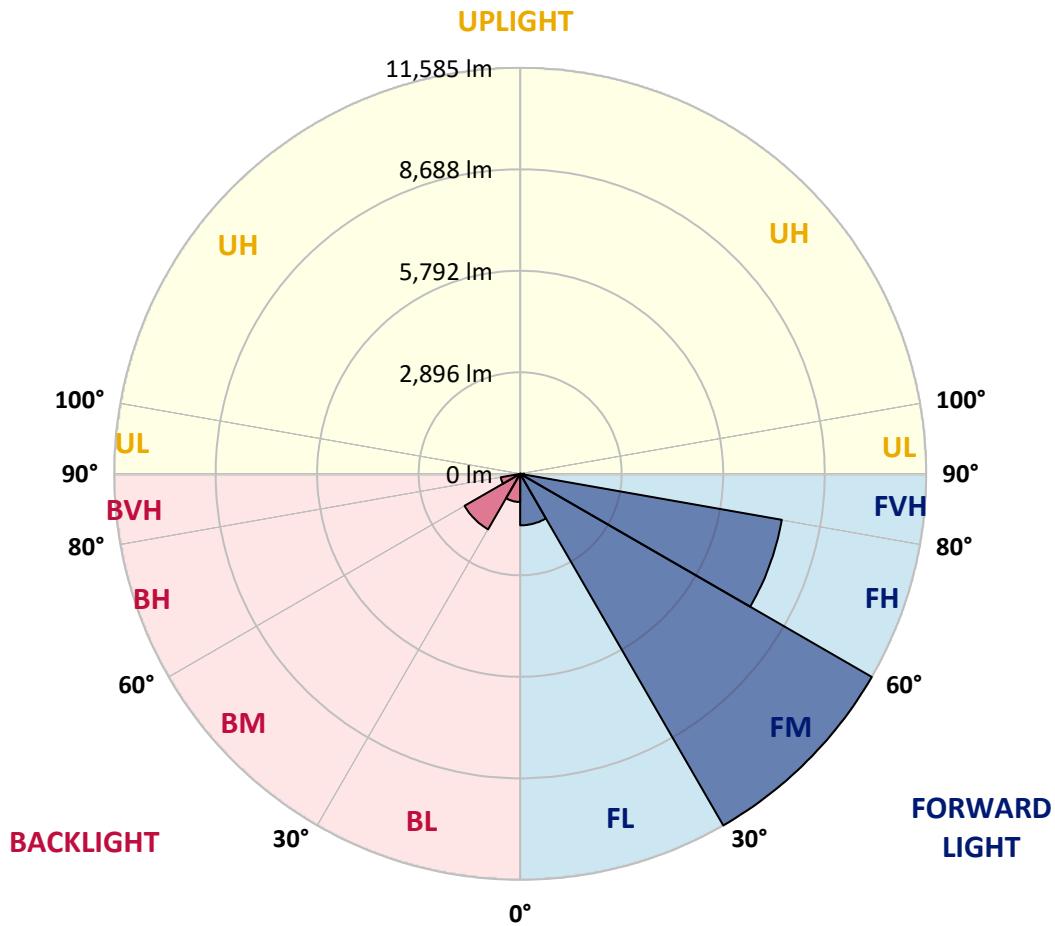
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1470.5	6.1			
FM (30°-60°)	11584.6	48.4			
FH (60°-80°)	7580.4	31.7			G4/12000
FVH (80°-90°)	107.3	0.4			G2/225
BL (0°-30°)	804.0	3.4	B2/1000		
BM (30°-60°)	1830.7	7.6	B2/2500		
BH (60°-80°)	562.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.5	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	2785.1	2785.1	2785.1	2785.1	2785.1	2785.1	2785.1	2785.1	2785.1	2785.1
2.5°	2775.4	2794.7	2789.9	2785.1	2783.4	2786.7	2788.3	2786.7	2786.7	2786.7
5°	2722.4	2738.5	2738.5	2749.7	2765.8	2785.1	2799.5	2802.7	2805.9	2810.7
7.5°	2621.3	2634.2	2643.8	2680.7	2720.8	2772.2	2815.6	2838.0	2841.2	2858.9
10°	2552.3	2568.3	2584.4	2622.9	2680.7	2757.8	2831.6	2886.2	2894.2	2935.9
12.5°	2549.1	2565.1	2586.0	2627.7	2695.2	2777.0	2866.9	2945.6	2960.0	3021.0
15°	2582.8	2602.1	2621.3	2672.7	2744.9	2844.4	2940.8	3038.7	3053.1	3139.8
17.5°	2651.8	2677.5	2691.9	2743.3	2820.4	2931.1	3057.9	3170.3	3183.1	3284.3
20°	2788.3	2818.8	2823.6	2865.3	2940.8	3059.5	3210.4	3350.1	3366.1	3481.7
22.5°	3070.8	3114.1	3075.6	3096.5	3163.9	3282.7	3446.4	3623.0	3645.4	3777.1
25°	3568.4	3629.4	3529.9	3494.6	3523.5	3647.1	3852.5	4075.6	4101.3	4207.3
27.5°	4546.0	4467.3	4316.4	4168.7	4082.1	4152.7	4383.8	4659.9	4692.1	4794.8
30°	5619.9	5550.8	5347.0	5019.5	4814.0	4802.8	5016.3	5324.5	5361.4	5459.3
32.5°	6695.4	6629.5	6408.0	6005.1	5648.8	5472.2	5619.9	5961.8	5981.0	6043.6
35°	7753.2	7685.8	7464.3	7051.7	6613.5	6212.2	6183.3	6568.5	6575.0	6640.8
37.5°	8817.5	8761.3	8525.3	8120.8	7689.0	7135.2	6867.1	7143.2	7151.2	7215.5
40°	9576.7	9600.8	9438.7	9125.7	8754.9	8149.7	7634.4	7754.8	7706.6	7814.2
42.5°	10228.4	10276.6	10135.3	9978.0	9762.9	9230.0	8584.7	8563.8	8486.8	8544.6
45°	10791.9	10832.0	10705.2	10668.3	10663.5	10289.4	9623.3	9498.1	9390.5	9379.3
47.5°	10998.9	11076.0	11130.6	11254.2	11495.0	11337.7	10697.2	10502.9	10382.5	10294.3
50°	11077.6	11159.5	11345.7	11705.2	12275.1	12342.5	11766.2	11547.9	11400.3	11239.7
52.5°	10971.7	11117.7	11368.1	11973.3	12800.0	13148.3	12792.0	12601.0	12432.4	12170.8
55°	10347.2	10493.3	11005.4	11970.1	13061.7	13713.4	13761.5	13676.5	13487.0	13074.5
57.5°	9031.0	9247.7	10058.3	11562.4	13056.8	14199.8	14711.8	14772.8	14560.9	13970.2
60°	7207.4	7501.2	8490.0	10658.6	12653.9	14463.0	15544.9	15849.9	15625.2	14853.1
62.5°	5029.1	5369.5	6305.3	9242.8	11732.5	14273.6	16153.3	16716.7	16546.6	15642.8
65°	3067.6	3176.7	3931.2	7273.2	10165.8	13480.6	16341.1	17185.5	17129.3	16126.0
67.5°	2043.4	2134.9	2351.6	4987.4	7891.2	11896.3	15891.7	17103.6	17119.6	16047.4
70°	1231.2	1309.9	1451.1	2900.6	5114.2	9416.2	14499.9	16060.2	16153.3	14995.9
72.5°	507.2	560.2	688.6	1314.7	2648.6	5976.2	11546.3	13788.8	14005.5	12609.0
75°	287.3	314.6	404.5	659.7	1149.3	2785.1	6993.9	9788.6	10108.1	8690.6
77.5°	191.0	203.9	261.7	427.0	646.9	950.3	2988.9	5099.8	5709.8	4746.6
80°	128.4	139.7	179.8	285.7	420.6	407.7	951.9	1889.3	2324.4	1630.9
82.5°	86.7	88.3	128.4	187.8	266.5	197.4	280.9	587.5	738.4	471.9
85°	49.8	48.2	94.7	109.2	118.8	81.9	85.1	176.6	231.2	199.0
87.5°	6.4	9.6	36.9	28.9	16.1	17.7	17.7	30.5	44.9	48.2
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°
2785.1	0°	2785.1	2785.1	2785.1	2785.1	2785.1	2785.1	2785.1	2785.1	2785.1	2785.1
2788.3	2.5°	2788.3	2786.7	2781.8	2777.0	2765.8	2759.4	2762.6	2759.4	2757.8	2759.4
2809.1	5°	2809.1	2804.3	2791.5	2775.4	2752.9	2725.7	2708.0	2682.3	2658.2	2643.8
2865.3	7.5°	2865.3	2860.5	2842.8	2797.9	2725.7	2611.7	2507.3	2415.9	2346.8	2306.7
2955.2	10°	2955.2	2947.2	2919.9	2820.4	2631.0	2382.1	2175.1	2003.3	1890.9	1838.0
3061.1	12.5°	3061.1	3051.5	3003.4	2799.5	2451.2	2062.7	1777.0	1586.0	1481.6	1435.1
3183.1	15°	3186.4	3173.5	3078.8	2700.0	2189.5	1709.6	1447.9	1305.0	1237.6	1195.9
3338.9	17.5°	3342.1	3319.6	3135.0	2550.7	1905.4	1439.9	1245.6	1138.1	1078.7	1038.6
3542.7	20°	3544.3	3507.4	3179.9	2372.5	1643.7	1269.7	1109.2	1019.3	974.4	939.1
3831.7	22.5°	3826.8	3773.9	3234.5	2179.9	1459.1	1152.5	1008.1	942.3	905.3	865.2
4234.6	25°	4176.8	4114.2	3301.9	2001.7	1332.3	1051.4	934.2	879.7	836.3	789.8
4762.7	27.5°	4666.4	4554.0	3382.2	1855.6	1223.2	964.7	866.8	805.8	756.1	717.5
5361.4	30°	5212.1	5027.5	3452.8	1767.3	1123.7	884.5	778.5	717.5	671.0	643.7
5899.2	32.5°	5729.0	5478.6	3499.4	1728.8	1033.8	793.0	682.2	616.4	581.1	573.1
6425.7	35°	6217.0	5886.3	3494.6	1691.9	953.5	701.5	587.5	520.1	492.8	497.6
6992.3	37.5°	6778.8	6321.3	3460.8	1634.1	887.7	618.0	505.6	446.3	422.2	423.8
7681.0	40°	7432.2	6823.8	3440.0	1525.0	815.5	541.0	438.2	390.1	372.4	366.0
8406.5	42.5°	8128.8	7310.2	3443.2	1401.4	725.6	471.9	391.7	351.5	335.5	330.7
9213.9	45°	8828.7	7774.1	3448.0	1272.9	630.9	419.0	358.0	324.3	314.6	308.2
10032.6	47.5°	9486.8	8169.0	3358.1	1134.9	537.7	378.8	330.7	308.2	300.2	292.1
10854.5	50°	10100.0	8432.2	3141.4	974.4	463.9	346.7	309.8	293.8	285.7	277.7
11599.3	52.5°	10576.8	8473.9	2783.4	809.0	412.5	322.6	297.0	282.5	272.9	264.9
12201.3	55°	10788.7	8212.3	2274.6	654.9	372.4	301.8	284.1	269.7	258.4	250.4
12674.8	57.5°	10734.1	7661.7	1773.8	526.5	333.9	280.9	268.1	258.4	245.6	232.8
13058.4	60°	10466.0	6924.9	1337.1	438.2	298.6	258.4	250.4	242.4	224.7	205.5
13206.1	62.5°	10002.1	5998.7	953.5	362.8	260.0	232.8	229.5	223.1	197.4	162.1
12987.8	65°	9292.6	4873.4	642.1	301.8	223.1	203.9	205.5	194.2	160.5	120.4
12188.4	67.5°	8255.6	3563.6	410.9	247.2	186.2	170.2	171.8	165.3	136.4	102.7
10673.1	70°	6934.5	2359.7	268.1	187.8	149.3	131.6	141.3	142.9	115.6	83.5
8191.4	72.5°	5083.7	1393.3	187.8	139.7	109.2	91.5	115.6	118.8	93.1	62.6
4928.0	75°	2897.4	661.3	141.3	101.1	67.4	64.2	89.9	89.9	64.2	41.7
2133.3	77.5°	1216.8	276.1	99.5	65.8	38.5	36.9	61.0	56.2	32.1	19.3
520.1	80°	351.5	123.6	53.0	32.1	16.1	14.4	24.1	17.7	8.0	3.2
197.4	82.5°	138.0	54.6	20.9	12.8	6.4	6.4	3.2	0.0	0.0	0.0
112.4	85°	81.9	22.5	9.6	4.8	1.6	0.0	0.0	0.0	0.0	0.0
24.1	87.5°	20.9	4.8	3.2	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

180°
2785.1
2765.8
2647.0
2308.3
1833.2
1430.2
1197.5
1035.4
932.6
858.8
785.0
709.5
638.9
577.9
497.6
430.2
364.4
329.1
308.2
292.1
277.7
263.3
248.8
231.2
202.3
158.9
117.2
97.9
80.3
59.4
38.5
19.3
3.2
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