

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: P950538

Luminaire Tested: **GALN-SB4D-950-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950538
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-SB4D-950-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 900mA 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: 23620 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

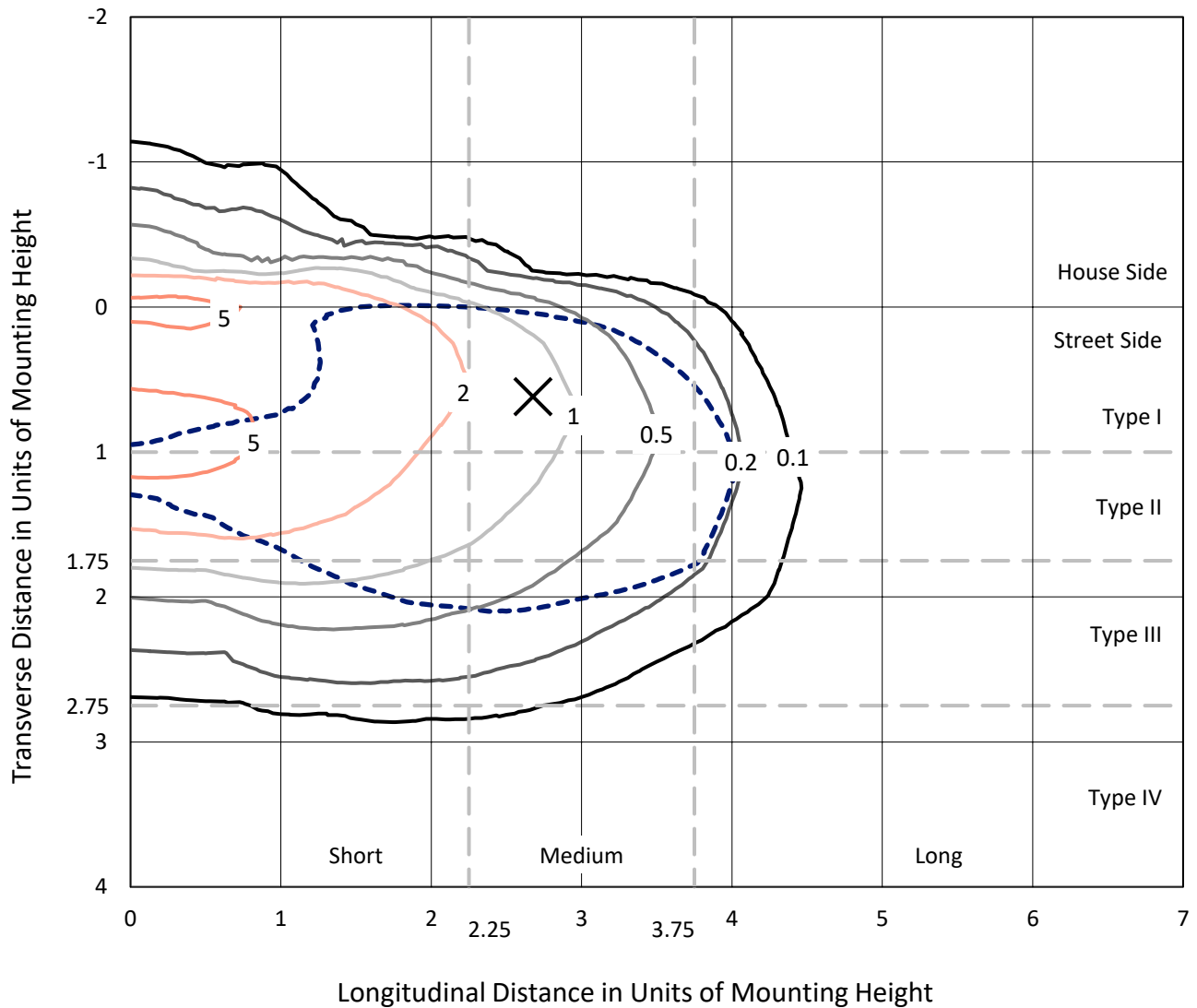
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

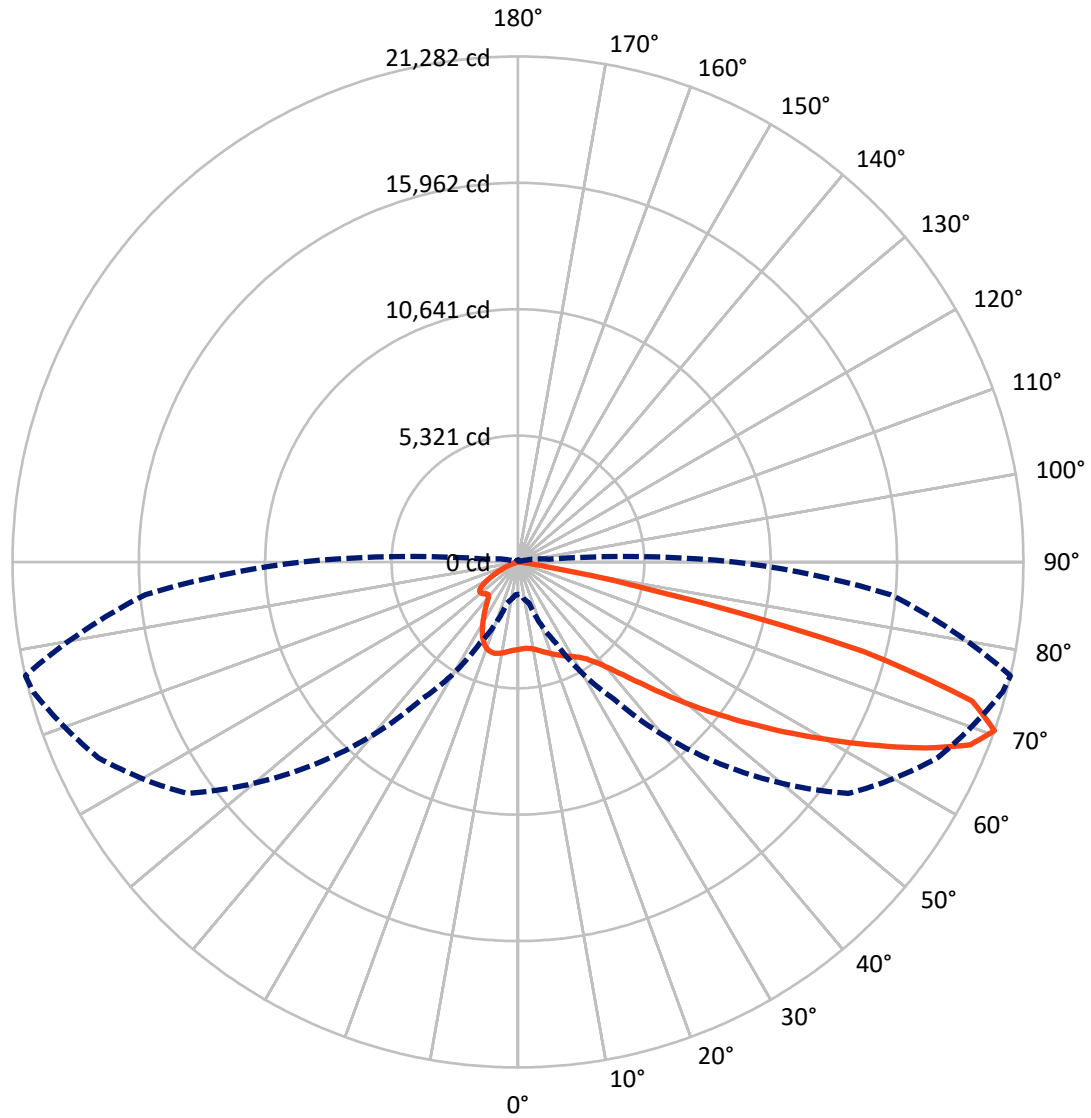
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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
House Side	Lumens	2489.9	0.0	2489.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	21130.1	0.0	21130.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	23620.0	0.0	23620.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.5	1.3
10°-20°	753.8	3.2
20°-30°	1165.9	4.9
30°-40°	2115.5	9.0
40°-50°	3993.4	16.9
50°-60°	5770.1	24.4
60°-70°	6142.1	26.0
70°-80°	3254.9	13.8
80°-90°	106.9	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°	23620.0	100.0
0°-180°	23620.0	100.0



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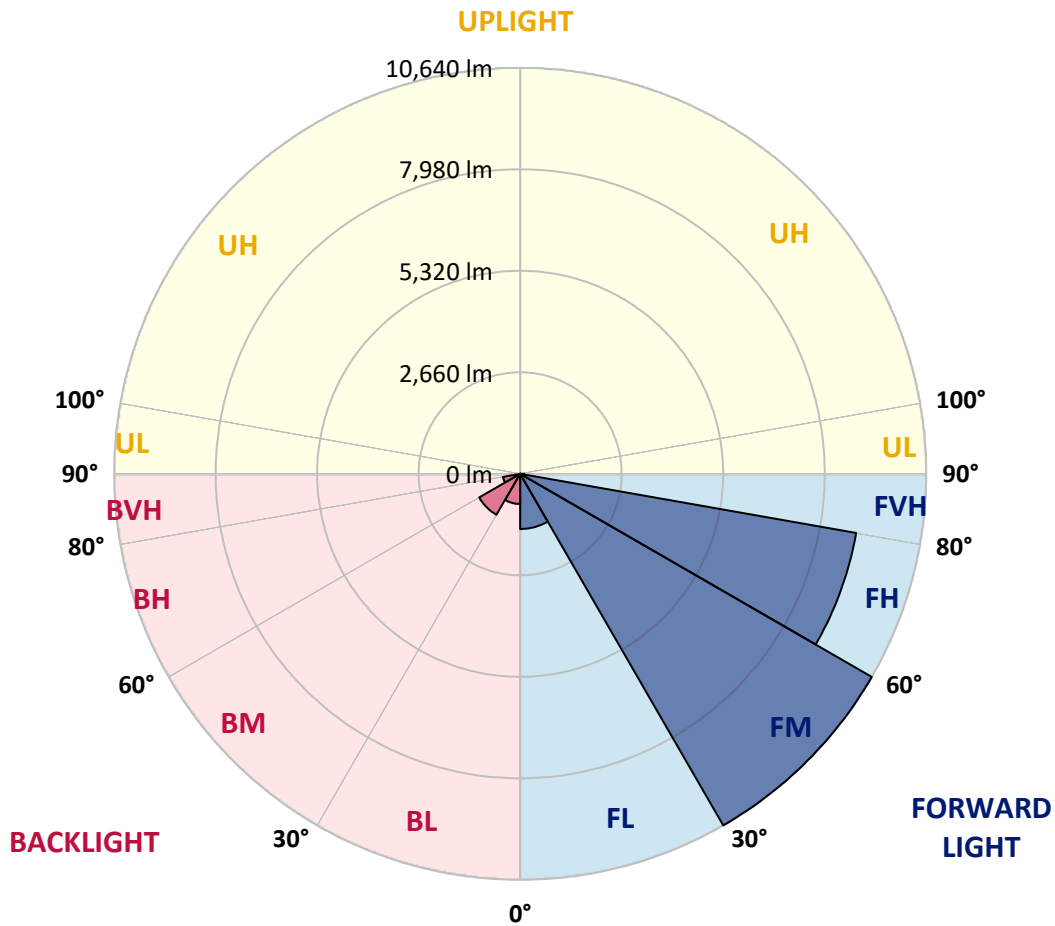
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1446.1	6.1			
FM (30°-60°)	10639.5	45.0			
FH (60°-80°)	8940.5	37.9			G4/12000
FVH (80°-90°)	104.0	0.4			G2/225
BL (0°-30°)	791.1	3.3	B2/1000		
BM (30°-60°)	1239.5	5.2	B2/2500		
BH (60°-80°)	456.5	1.9	B1/500		G1/500
BVH (80°-90°)	2.9	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3684.3	3684.3	3684.3	3684.3	3684.3	3684.3	3684.3	3684.3	3684.3	3684.3
2.5°	3459.1	3490.4	3485.9	3506.8	3514.2	3544.1	3573.9	3614.2	3658.9	3657.4
5°	3263.7	3295.0	3302.4	3330.8	3366.6	3412.8	3474.0	3554.5	3638.1	3651.5
7.5°	3032.5	3065.3	3084.7	3141.3	3207.0	3302.4	3402.4	3520.2	3658.9	3678.3
10°	2801.3	2831.1	2856.4	2937.0	3041.4	3183.1	3345.7	3515.7	3702.2	3730.5
12.5°	2658.1	2686.4	2714.7	2784.8	2914.6	3087.6	3308.4	3536.6	3773.8	3814.1
15°	2607.3	2632.7	2655.1	2717.7	2838.5	3035.4	3300.9	3579.9	3864.8	3918.5
17.5°	2614.8	2628.2	2643.1	2690.9	2808.7	3011.6	3314.4	3654.5	3972.2	4019.9
20°	2658.1	2665.5	2667.0	2699.8	2804.2	3008.6	3341.2	3726.1	4073.6	4137.7
22.5°	2713.3	2716.2	2713.3	2735.6	2832.6	3031.0	3377.0	3812.6	4187.0	4246.6
25°	2971.3	2914.6	2843.0	2799.8	2880.3	3074.2	3430.7	3928.9	4310.8	4368.9
27.5°	3772.3	3609.7	3353.2	3065.3	2978.8	3136.9	3505.3	4046.8	4436.1	4488.3
30°	5073.0	4859.7	4424.1	3775.3	3295.0	3268.1	3602.3	4164.6	4568.8	4625.5
32.5°	6376.7	6324.5	5821.8	4923.8	4006.5	3560.5	3763.3	4324.2	4744.8	4789.6
35°	7695.3	7589.3	7177.7	6290.1	5102.8	4155.6	4031.8	4533.0	4976.0	5026.7
37.5°	8705.1	8640.9	8385.9	7655.0	6403.5	5074.5	4491.3	4856.7	5311.6	5368.3
40°	9597.1	9567.2	9480.7	8998.9	7857.8	6276.7	5205.7	5357.9	5777.0	5844.2
42.5°	10298.1	10368.2	10417.5	10283.2	9356.9	7649.0	6166.3	6061.9	6425.9	6494.5
45°	11015.6	11039.5	11237.8	11431.8	10845.5	9083.9	7249.3	6886.8	7232.8	7317.9
47.5°	11476.5	11572.0	11921.0	12262.6	12097.0	10506.9	8412.7	7860.8	8168.1	8327.7
50°	11510.8	11691.3	12171.6	12766.7	13008.4	11861.3	9677.6	8970.6	9297.2	9473.3
52.5°	10939.5	11219.9	11964.3	12835.4	13500.6	13008.4	10985.8	10080.3	10499.5	10729.2
55°	8387.4	8754.3	11184.1	12462.5	13520.0	13878.0	12259.6	11236.3	11839.0	12098.5
57.5°	7307.4	7492.4	8793.1	11815.1	13160.5	14228.5	13411.1	12337.2	13296.3	13618.5
60°	6079.8	6323.0	7374.6	10756.0	12672.8	14262.8	14428.4	13757.2	14875.9	15238.4
62.5°	4131.8	4395.8	5441.4	8936.3	12006.0	14246.4	15262.2	15219.0	16631.5	17020.8
65°	2559.6	2725.2	3414.3	7297.0	11073.8	14264.3	16134.8	16994.0	18484.1	18879.4
67.5°	2022.6	2098.7	2458.2	5602.5	9467.3	13861.6	17005.9	18663.1	20227.8	20541.1
70°	1358.9	1405.1	1788.4	3755.9	7043.4	12003.0	16989.5	19501.4	21125.8	21282.4
72.5°	716.0	751.8	1045.6	1739.2	4254.1	8532.0	14321.0	18499.0	20232.3	19996.6
75°	358.0	417.7	704.0	883.0	1816.8	4758.3	8893.0	14585.0	15924.5	15011.6
77.5°	271.5	328.2	581.7	581.7	632.4	1602.0	3766.3	7954.8	7337.3	6109.7
80°	173.0	223.7	508.6	440.0	264.0	407.2	981.5	2228.5	1558.7	1185.8
82.5°	101.4	146.2	423.6	290.9	147.7	150.7	277.4	474.3	404.2	314.7
85°	40.3	95.5	290.9	114.9	58.2	37.3	83.5	101.4	83.5	62.6
87.5°	0.0	22.4	50.7	0.0	4.5	3.0	6.0	7.5	7.5	6.0
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°
3684.3	0°	3684.3	3684.3	3684.3	3684.3	3684.3	3684.3	3684.3	3684.3	3684.3	3684.3
3687.3	2.5°	3700.7	3703.7	3712.6	3714.1	3693.2	3666.4	3656.0	3651.5	3633.6	3632.1
3711.1	5°	3745.4	3758.9	3745.4	3706.7	3614.2	3484.4	3386.0	3305.4	3232.3	3210.0
3793.2	7.5°	3834.9	3848.4	3808.1	3656.0	3423.3	3165.2	2932.5	2768.4	2620.8	2565.6
3893.1	10°	3963.2	3981.1	3854.3	3547.1	3135.4	2720.7	2326.9	2049.5	1833.2	1745.2
4028.9	12.5°	4124.3	4131.8	3879.7	3381.5	2761.0	2168.8	1610.9	1314.1	1121.7	1050.1
4192.9	15°	4301.8	4291.4	3882.7	3156.3	2250.8	1533.4	1051.6	863.6	786.1	762.2
4357.0	17.5°	4488.3	4445.0	3823.0	2831.1	1691.5	1048.6	780.1	735.4	721.9	716.0
4519.6	20°	4671.7	4574.8	3714.1	2406.0	1214.2	783.1	708.5	695.1	687.6	684.7
4683.7	22.5°	4838.8	4673.2	3527.7	1912.3	881.5	692.1	669.7	657.8	644.4	638.4
4843.3	25°	5001.4	4729.9	3265.1	1451.3	705.5	647.4	629.5	607.1	589.2	581.7
5014.8	27.5°	5159.5	4765.7	2937.0	1074.0	629.5	605.6	572.8	541.5	528.0	525.0
5198.3	30°	5328.1	4777.6	2564.1	801.0	583.2	553.4	505.7	469.9	462.4	463.9
5445.9	32.5°	5533.9	4795.5	2188.2	656.3	544.4	490.7	434.1	396.8	390.8	396.8
5806.9	35°	5780.0	4831.3	1825.7	604.1	510.1	426.6	365.4	334.1	328.2	332.6
6269.3	37.5°	6114.1	4889.5	1487.1	593.7	481.8	372.9	307.3	281.9	281.9	283.4
6836.1	40°	6558.6	5044.6	1184.3	586.2	466.9	332.6	259.5	249.1	253.6	256.6
7558.0	42.5°	7100.1	5374.3	980.0	577.3	450.5	314.7	235.7	231.2	238.7	241.6
8423.2	45°	7707.2	5791.9	908.4	562.3	435.6	326.7	225.2	219.3	228.2	229.7
9392.7	47.5°	8335.2	6200.7	899.4	545.9	420.6	344.6	222.3	208.8	219.3	220.8
10427.9	50°	8970.6	6467.7	908.4	520.6	396.8	344.6	223.7	198.4	207.3	211.8
11501.9	52.5°	9610.5	6590.0	902.4	465.4	355.0	323.7	223.7	189.4	198.4	201.4
12662.3	55°	10231.0	6566.1	811.4	383.3	301.3	286.4	217.8	182.0	187.9	189.4
13758.7	57.5°	10721.7	6233.5	642.9	298.3	244.6	238.7	198.4	173.0	177.5	176.0
14764.0	60°	10978.3	5502.6	459.4	229.7	192.4	187.9	174.5	161.1	164.1	156.6
15615.7	62.5°	10981.3	4536.0	307.3	182.0	153.6	149.2	149.2	144.7	141.7	126.8
16275.0	65°	10747.1	3463.5	204.4	144.7	123.8	116.3	125.3	123.8	113.4	92.5
16476.4	67.5°	10216.1	2270.2	155.1	113.4	95.5	91.0	99.9	104.4	97.0	77.6
15742.5	70°	9124.2	1321.6	128.3	88.0	71.6	67.1	80.5	89.5	80.5	62.6
13455.9	72.5°	7578.9	713.0	104.4	65.6	49.2	44.7	64.1	73.1	64.1	46.2
8633.5	75°	4917.9	381.9	80.5	43.3	25.4	28.3	47.7	53.7	44.7	29.8
2534.3	77.5°	1651.2	168.6	50.7	20.9	11.9	11.9	28.3	32.8	20.9	10.4
460.9	80°	368.4	70.1	20.9	8.9	4.5	4.5	6.0	6.0	3.0	0.0
141.7	82.5°	120.8	28.3	8.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0
35.8	85°	46.2	10.4	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11.9	87.5°	17.9	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

180°
3684.3
3635.1
3196.5
2543.2
1707.9
1027.7
762.2
714.5
681.7
636.9
578.7
522.1
463.9
395.3
331.1
281.9
256.6
241.6
231.2
222.3
213.3
201.4
189.4
176.0
155.1
122.3
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