

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: P950643

Luminaire Tested: **GALN-SB5A-740-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950643
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-SB5A-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 350mA 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: 19959 lumens
Efficiency: N/A
Efficacy: 140.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

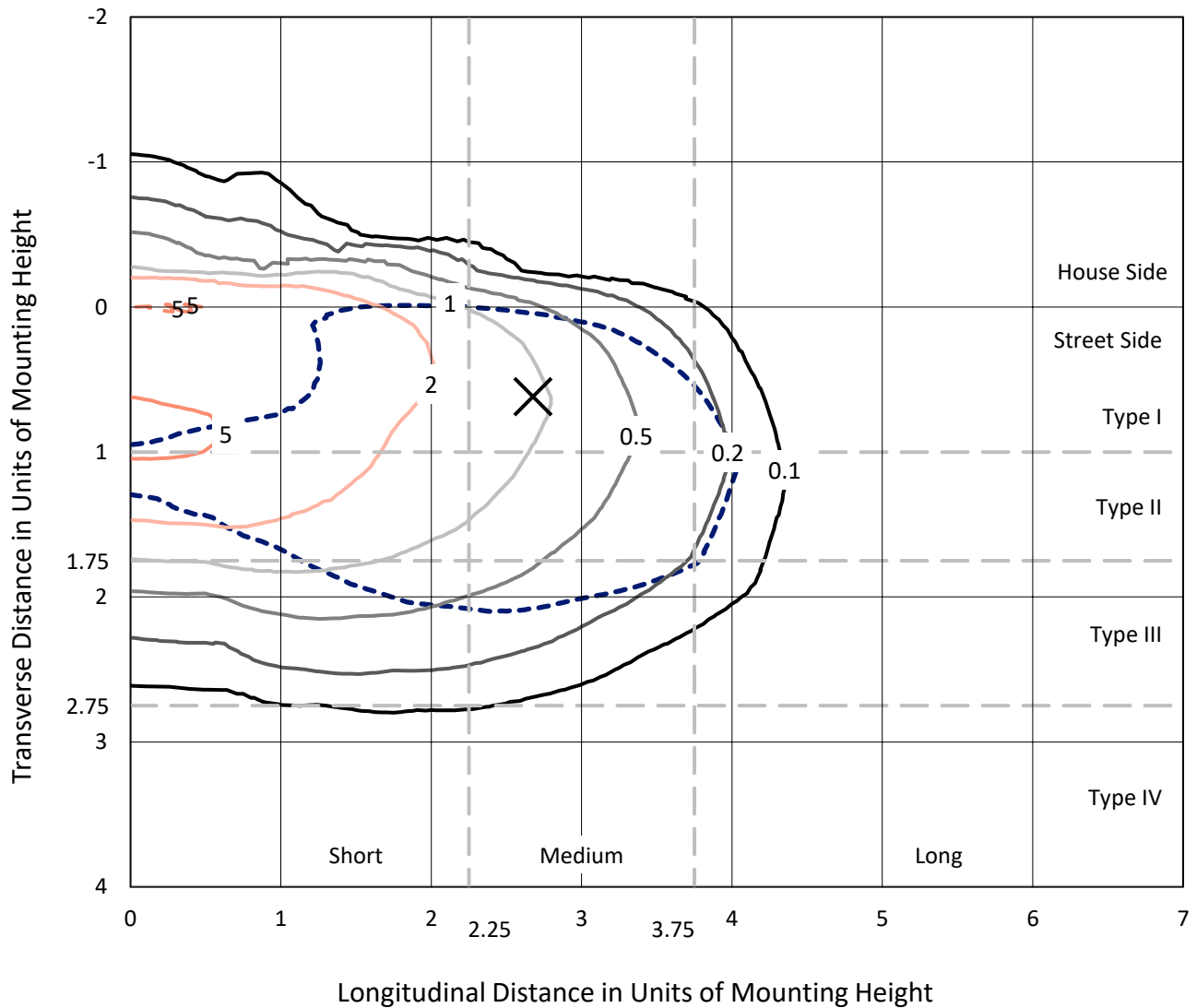
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

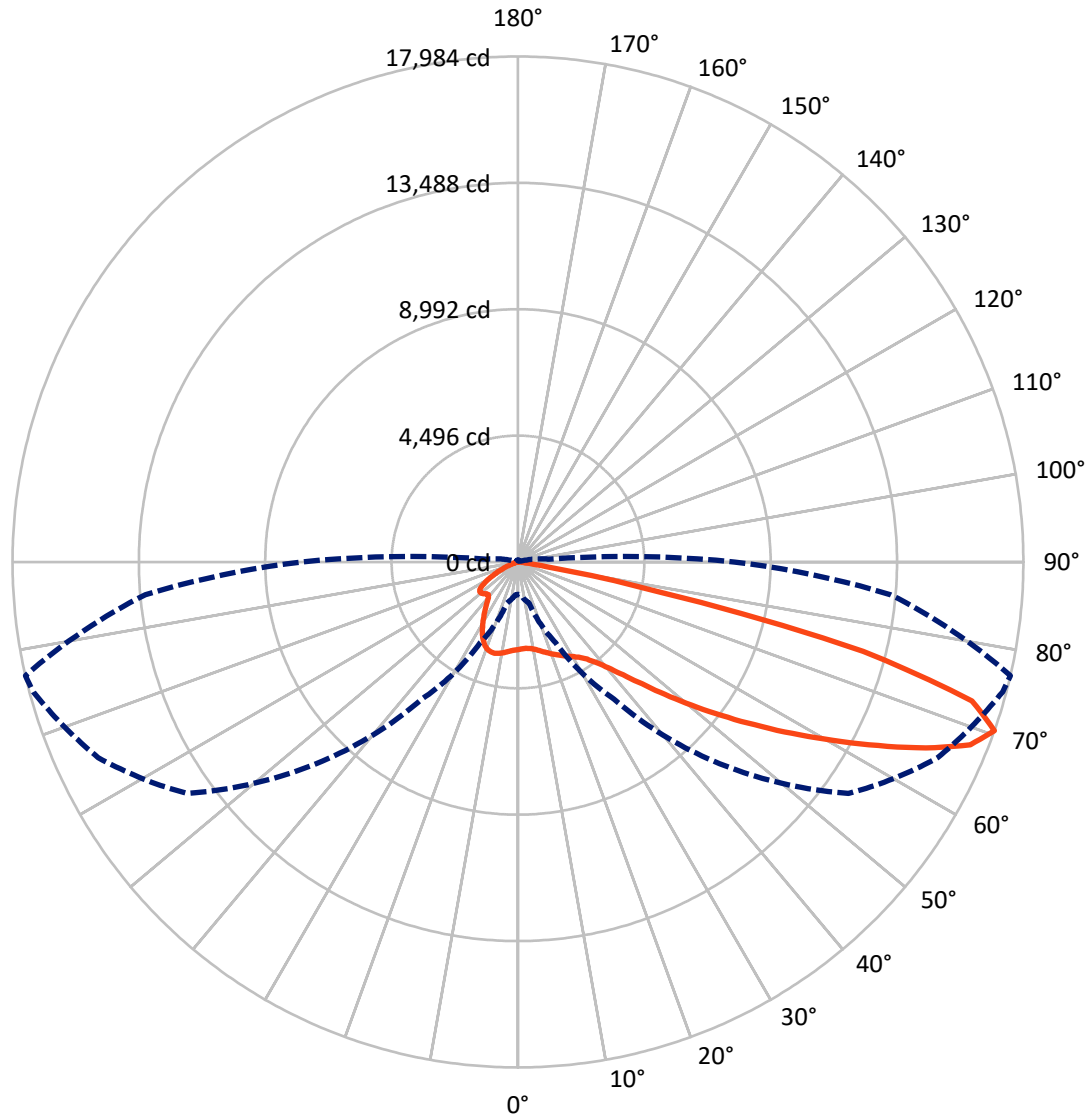
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	2104.0	0.0	2104.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	17855.0	0.0	17855.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	19959.0	0.0	19959.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.3	1.3
10°-20°	636.9	3.2
20°-30°	985.2	4.9
30°-40°	1787.6	9.0
40°-50°	3374.4	16.9
50°-60°	4875.7	24.4
60°-70°	5190.1	26.0
70°-80°	2750.4	13.8
80°-90°	90.3	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°	19959.0	100.0
0°-180°	19959.0	100.0

Coefficient of Utilization



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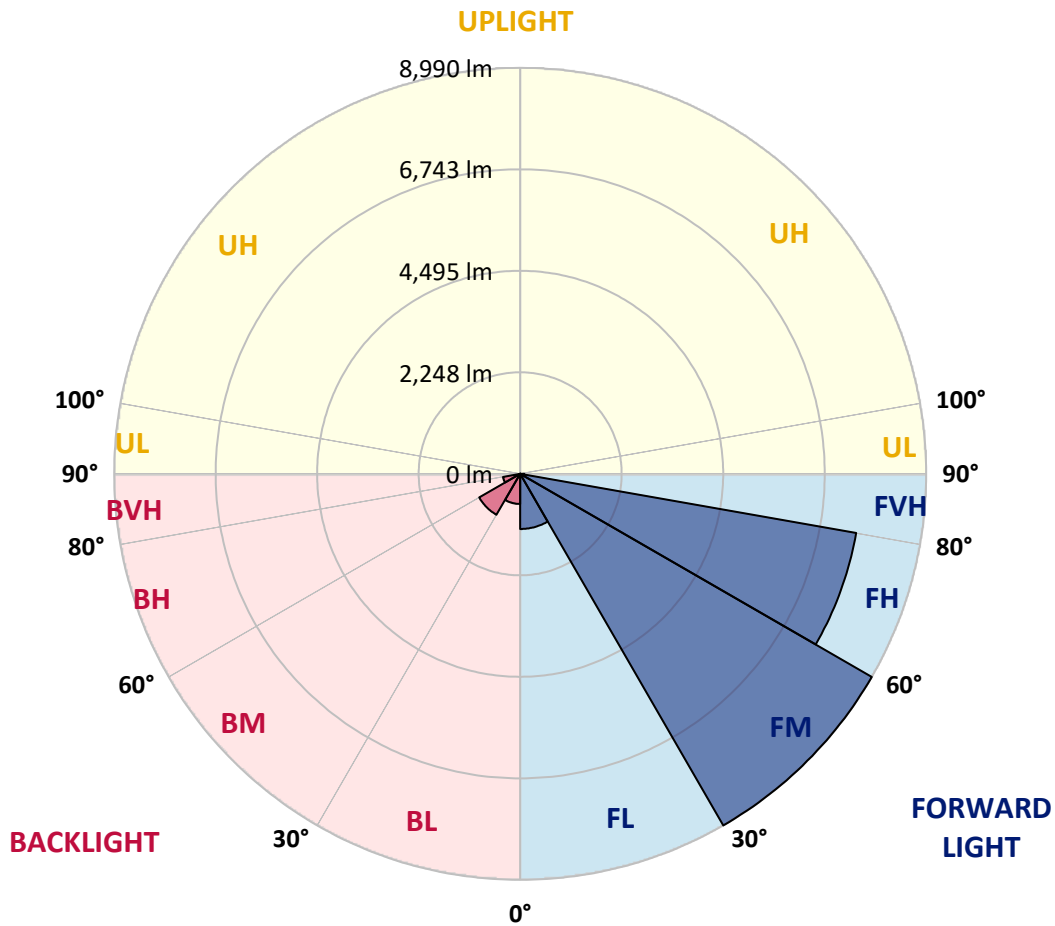
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1222.0	6.1			
FM (30°-60°)	8990.4	45.0			
FH (60°-80°)	7554.8	37.9			G4/12000
FVH (80°-90°)	87.9	0.4			G1/100
BL (0°-30°)	668.5	3.3	B2/1000		
BM (30°-60°)	1047.4	5.2	B2/2500		
BH (60°-80°)	385.7	1.9	B1/500		G1/500
BVH (80°-90°)	2.4	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°	3113.2	3113.2	3113.2	3113.2	3113.2	3113.2	3113.2	3113.2	3113.2	3113.2
2.5°	2922.9	2949.4	2945.6	2963.3	2969.6	2994.8	3020.0	3054.0	3091.8	3090.6
5°	2757.8	2784.3	2790.6	2814.5	2844.8	2883.8	2935.5	3003.6	3074.2	3085.5
7.5°	2562.4	2590.2	2606.6	2654.4	2709.9	2790.6	2875.0	2974.6	3091.8	3108.2
10°	2367.1	2392.3	2413.7	2481.8	2570.0	2689.7	2827.1	2970.8	3128.4	3152.3
12.5°	2246.1	2270.0	2294.0	2353.2	2462.9	2609.1	2795.6	2988.5	3188.9	3222.9
15°	2203.2	2224.6	2243.6	2296.5	2398.6	2565.0	2789.3	3025.0	3265.8	3311.1
17.5°	2209.5	2220.9	2233.5	2273.8	2373.4	2544.8	2800.7	3088.0	3356.5	3396.8
20°	2246.1	2252.4	2253.6	2281.4	2369.6	2542.3	2823.3	3148.5	3442.2	3496.4
22.5°	2292.7	2295.2	2292.7	2311.6	2393.5	2561.2	2853.6	3221.6	3538.0	3588.4
25°	2510.8	2462.9	2402.4	2365.8	2433.9	2597.7	2899.0	3320.0	3642.6	3691.8
27.5°	3187.6	3050.2	2833.4	2590.2	2517.1	2650.7	2962.0	3419.5	3748.5	3792.6
30°	4286.7	4106.5	3738.4	3190.1	2784.3	2761.6	3043.9	3519.1	3860.7	3908.6
32.5°	5388.3	5344.2	4919.4	4160.7	3385.5	3008.6	3180.0	3654.0	4009.4	4047.2
35°	6502.5	6413.0	6065.2	5315.2	4311.9	3511.5	3406.9	3830.4	4204.8	4247.6
37.5°	7355.8	7301.6	7086.1	6468.5	5411.0	4288.0	3795.1	4103.9	4488.4	4536.3
40°	8109.6	8084.3	8011.2	7604.1	6639.9	5303.9	4398.9	4527.4	4881.6	4938.3
42.5°	8702.0	8761.2	8802.8	8689.4	7906.6	6463.4	5210.6	5122.4	5429.9	5487.9
45°	9308.2	9328.4	9496.0	9659.9	9164.5	7676.0	6125.7	5819.4	6111.8	6183.6
47.5°	9697.7	9778.4	10073.3	10361.9	10222.0	8878.4	7108.8	6642.4	6902.1	7036.9
50°	9726.7	9879.2	10285.0	10788.0	10992.1	10022.9	8177.6	7580.2	7856.2	8004.9
52.5°	9243.9	9480.9	10109.8	10845.9	11408.1	10992.1	9283.0	8517.9	8872.1	9066.2
55°	7087.4	7397.4	9450.6	10530.8	11424.5	11727.0	10359.4	9494.8	10004.0	10223.3
57.5°	6174.8	6331.1	7430.2	9983.8	11120.7	12023.2	11332.5	10425.0	11235.4	11507.7
60°	5137.5	5342.9	6231.5	9088.9	10708.5	12052.2	12192.1	11624.9	12570.2	12876.5
62.5°	3491.4	3714.5	4598.0	7551.2	10145.1	12038.3	12896.6	12860.1	14053.7	14382.7
65°	2162.9	2302.8	2885.1	6166.0	9357.4	12053.4	13634.0	14360.0	15619.2	15953.2
67.5°	1709.1	1773.4	2077.2	4734.1	7999.9	11713.1	14370.1	15770.4	17092.6	17357.3
70°	1148.2	1187.3	1511.2	3173.7	5951.7	10142.6	14356.2	16478.8	17851.4	17983.7
72.5°	605.0	635.3	883.6	1469.7	3594.7	7209.6	12101.3	15631.8	17096.4	16897.2
75°	302.5	352.9	594.9	746.2	1535.2	4020.7	7514.6	12324.4	13456.3	12684.9
77.5°	229.4	277.3	491.6	491.6	534.4	1353.7	3182.6	6721.8	6200.0	5162.7
80°	146.2	189.1	429.8	371.8	223.1	344.1	829.4	1883.1	1317.1	1002.0
82.5°	85.7	123.5	358.0	245.8	124.8	127.3	234.4	400.8	341.6	265.9
85°	34.0	80.7	245.8	97.1	49.2	31.5	70.6	85.7	70.6	52.9
87.5°	0.0	18.9	42.9	0.0	3.8	2.5	5.0	6.3	6.3	5.0
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°
3113.2	0°	3113.2	3113.2	3113.2	3113.2	3113.2	3113.2	3113.2	3113.2	3113.2	3113.2
3115.8	2.5°	3127.1	3129.6	3137.2	3138.5	3120.8	3098.1	3089.3	3085.5	3070.4	3069.1
3135.9	5°	3164.9	3176.3	3164.9	3132.1	3054.0	2944.3	2861.2	2793.1	2731.3	2712.4
3205.3	7.5°	3240.5	3251.9	3217.9	3089.3	2892.7	2674.6	2478.0	2339.3	2214.6	2167.9
3289.7	10°	3348.9	3364.1	3256.9	2997.3	2649.4	2299.0	1966.3	1731.8	1549.1	1474.7
3404.4	12.5°	3485.1	3491.4	3278.4	2857.4	2333.0	1832.7	1361.3	1110.4	947.8	887.3
3543.0	15°	3635.1	3626.2	3280.9	2667.1	1902.0	1295.7	888.6	729.8	664.2	644.1
3681.7	17.5°	3792.6	3756.1	3230.5	2392.3	1429.3	886.1	659.2	621.4	610.0	605.0
3819.1	20°	3947.6	3865.7	3138.5	2033.1	1026.0	661.7	598.7	587.4	581.1	578.5
3957.7	22.5°	4088.8	3948.9	2980.9	1615.9	744.9	584.8	565.9	555.8	544.5	539.5
4092.6	25°	4226.2	3996.8	2759.1	1226.4	596.2	547.0	531.9	513.0	497.9	491.6
4237.5	27.5°	4359.8	4027.0	2481.8	907.5	531.9	511.7	484.0	457.5	446.2	443.7
4392.6	30°	4502.2	4037.1	2166.7	676.8	492.8	467.6	427.3	397.0	390.7	392.0
4601.8	32.5°	4676.2	4052.3	1849.0	554.6	460.1	414.7	366.8	335.3	330.2	335.3
4906.8	35°	4884.1	4082.5	1542.8	510.5	431.1	360.5	308.8	282.3	277.3	281.1
5297.6	37.5°	5166.5	4131.7	1256.6	501.6	407.1	315.1	259.6	238.2	238.2	239.5
5776.5	40°	5542.1	4262.7	1000.8	495.3	394.5	281.1	219.3	210.5	214.3	216.8
6386.6	42.5°	5999.6	4541.3	828.1	487.8	380.6	265.9	199.1	195.4	201.7	204.2
7117.6	45°	6512.6	4894.2	767.6	475.2	368.0	276.0	190.3	185.3	192.8	194.1
7936.9	47.5°	7043.2	5239.6	760.0	461.3	355.4	291.2	187.8	176.5	185.3	186.5
8811.6	50°	7580.2	5465.2	767.6	439.9	335.3	291.2	189.1	167.6	175.2	179.0
9719.1	52.5°	8120.9	5568.5	762.6	393.3	300.0	273.5	189.1	160.1	167.6	170.2
10699.7	55°	8645.2	5548.4	685.7	323.9	254.6	242.0	184.0	153.8	158.8	160.1
11626.1	57.5°	9059.9	5267.3	543.2	252.1	206.7	201.7	167.6	146.2	150.0	148.7
12475.7	60°	9276.7	4649.7	388.2	194.1	162.6	158.8	147.5	136.1	138.6	132.3
13195.4	62.5°	9279.2	3832.9	259.6	153.8	129.8	126.0	126.0	122.3	119.7	107.1
13752.5	65°	9081.3	2926.7	172.7	122.3	104.6	98.3	105.9	104.6	95.8	78.1
13922.6	67.5°	8632.6	1918.4	131.1	95.8	80.7	76.9	84.4	88.2	81.9	65.5
13302.5	70°	7710.0	1116.7	108.4	74.4	60.5	56.7	68.1	75.6	68.1	52.9
11370.3	72.5°	6404.2	602.5	88.2	55.5	41.6	37.8	54.2	61.8	54.2	39.1
7295.3	75°	4155.6	322.7	68.1	36.6	21.4	23.9	40.3	45.4	37.8	25.2
2141.5	77.5°	1395.3	142.4	42.9	17.6	10.1	10.1	23.9	27.7	17.6	8.8
389.5	80°	311.3	59.2	17.6	7.6	3.8	3.8	5.0	5.0	2.5	0.0
119.7	82.5°	102.1	23.9	7.6	2.5	0.0	0.0	0.0	0.0	0.0	0.0
30.3	85°	39.1	8.8	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.1	87.5°	15.1	1.3	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°
3113.2
3071.6
2701.1
2149.0
1443.2
868.4
644.1
603.7
576.0
538.2
489.0
441.1
392.0
334.0
279.8
238.2
216.8
204.2
195.4
187.8
180.2
170.2
160.1
148.7
131.1
103.4
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37.8
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