

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: P956523

Luminaire Tested: **GALN-SB9A-927-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956523
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-SB9A-927-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 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: 20705 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

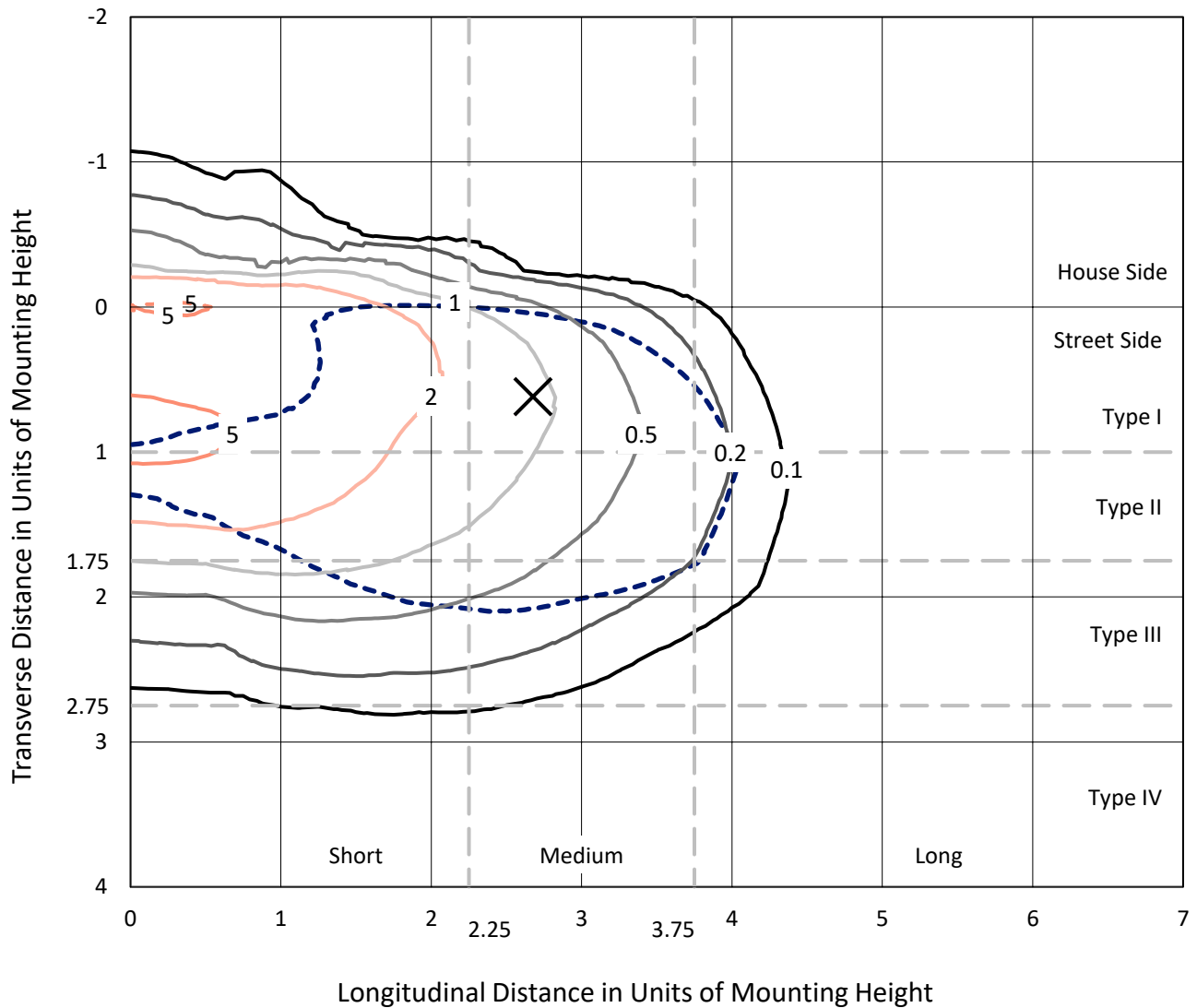
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

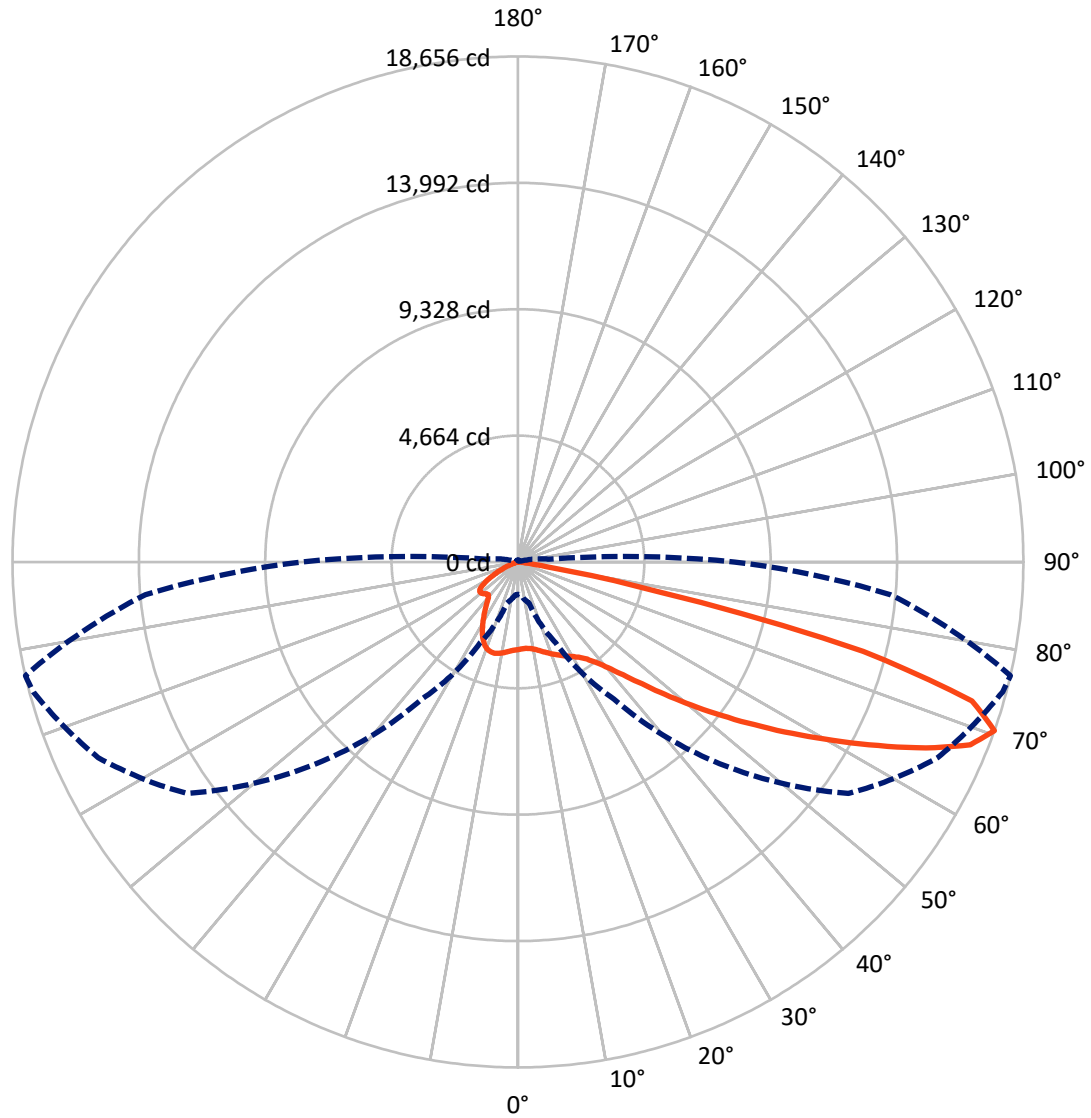
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	2182.6	0.0	2182.6
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	18522.4	0.0	18522.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	20705.0	0.0	20705.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.3	1.3
10°-20°	660.7	3.2
20°-30°	1022.0	4.9
30°-40°	1854.5	9.0
40°-50°	3500.5	16.9
50°-60°	5058.0	24.4
60°-70°	5384.1	26.0
70°-80°	2853.2	13.8
80°-90°	93.7	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°	20705.0	100.0
0°-180°	20705.0	100.0

Coefficient of Utilization



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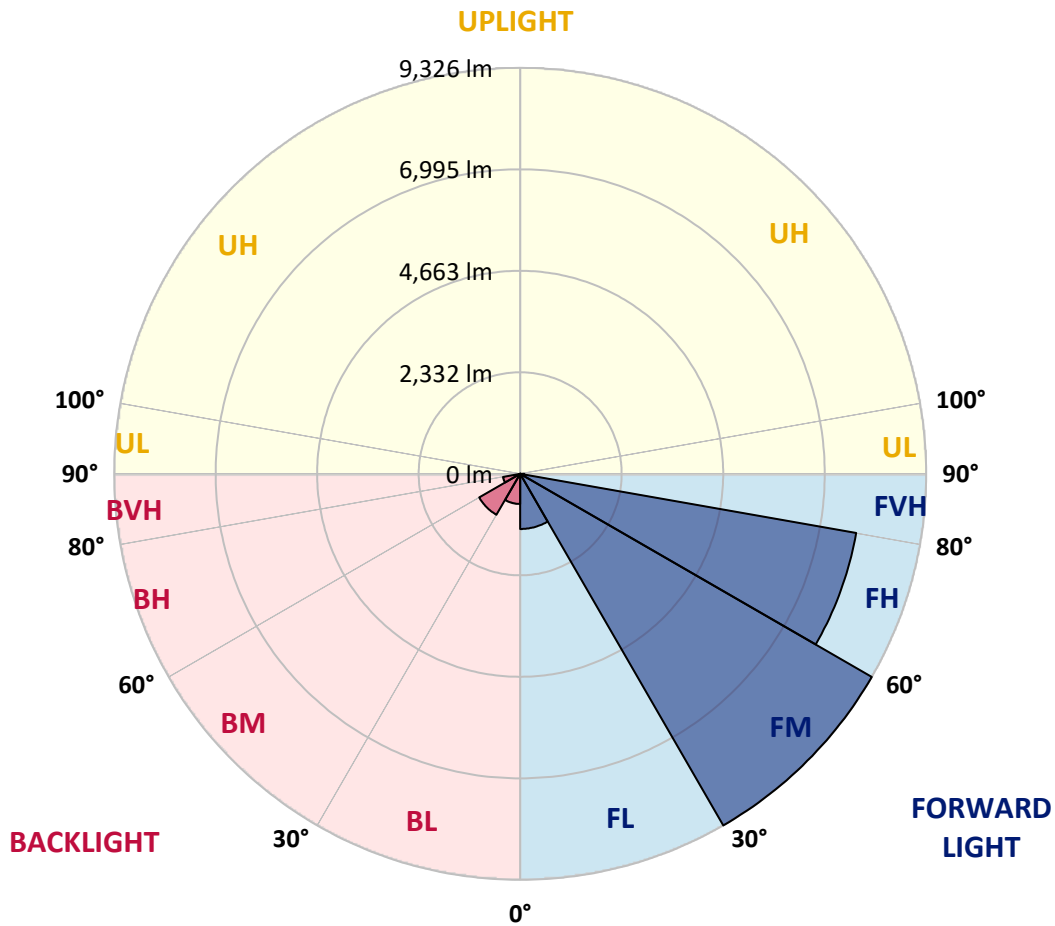
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1267.6	6.1			
FM (30°-60°)	9326.5	45.0			
FH (60°-80°)	7837.1	37.9			G4/12000
FVH (80°-90°)	91.2	0.4			G1/100
BL (0°-30°)	693.5	3.3	B2/1000		
BM (30°-60°)	1086.5	5.2	B2/2500		
BH (60°-80°)	400.1	1.9	B1/500		G1/500
BVH (80°-90°)	2.5	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3229.6	3229.6	3229.6	3229.6	3229.6	3229.6	3229.6	3229.6	3229.6	3229.6
2.5°	3032.2	3059.6	3055.7	3074.0	3080.5	3106.7	3132.8	3168.2	3207.4	3206.1
5°	2860.9	2888.3	2894.9	2919.7	2951.1	2991.6	3045.2	3115.9	3189.1	3200.8
7.5°	2658.2	2687.0	2704.0	2753.7	2811.2	2894.9	2982.5	3085.8	3207.4	3224.4
10°	2455.5	2481.7	2503.9	2574.5	2666.1	2790.3	2932.8	3081.9	3245.3	3270.1
12.5°	2330.0	2354.9	2379.7	2441.2	2554.9	2706.6	2900.1	3100.2	3308.1	3343.4
15°	2285.6	2307.8	2327.4	2382.3	2488.2	2660.8	2893.6	3138.1	3387.8	3434.9
17.5°	2292.1	2303.9	2316.9	2358.8	2462.1	2639.9	2905.3	3203.5	3482.0	3523.8
20°	2330.0	2336.6	2337.9	2366.6	2458.2	2637.3	2928.9	3266.2	3570.9	3627.1
22.5°	2378.4	2381.0	2378.4	2398.0	2483.0	2656.9	2960.3	3342.1	3670.2	3722.5
25°	2604.6	2554.9	2492.2	2454.2	2524.8	2694.8	3007.3	3444.0	3778.8	3829.8
27.5°	3306.8	3164.2	2939.3	2687.0	2611.1	2749.7	3072.7	3547.3	3888.6	3934.4
30°	4446.9	4259.9	3878.1	3309.4	2888.3	2864.8	3157.7	3650.6	4005.0	4054.7
32.5°	5589.7	5543.9	5103.3	4316.2	3512.0	3121.1	3298.9	3790.5	4159.3	4198.5
35°	6745.6	6652.7	6291.8	5513.9	4473.1	3642.8	3534.3	3973.6	4361.9	4406.4
37.5°	7630.8	7574.5	7350.9	6710.3	5613.2	4448.2	3937.0	4257.3	4656.1	4705.8
40°	8412.7	8386.5	8310.7	7888.3	6888.1	5502.1	4563.3	4696.7	5064.1	5122.9
42.5°	9027.2	9088.7	9131.8	9014.1	8202.2	6705.0	5405.3	5313.8	5632.9	5693.0
45°	9656.1	9677.1	9851.0	10020.9	9507.1	7962.9	6354.6	6036.9	6340.2	6414.8
47.5°	10060.2	10143.8	10449.8	10749.2	10604.1	9210.3	7374.5	6890.7	7160.0	7300.0
50°	10090.2	10248.4	10669.5	11191.2	11403.0	10397.5	8483.3	7863.5	8149.9	8304.1
52.5°	9589.4	9835.3	10487.7	11251.3	11834.5	11403.0	9630.0	8836.3	9203.7	9405.1
55°	7352.3	7673.9	9803.9	10924.4	11851.5	12165.3	10746.6	9849.6	10377.9	10605.4
57.5°	6405.6	6567.7	7707.9	10357.0	11536.4	12472.6	11756.0	10814.6	11655.3	11937.8
60°	5329.5	5542.6	6464.4	9428.6	11108.8	12502.6	12647.8	12059.4	13040.0	13357.8
62.5°	3621.9	3853.3	4769.9	7833.4	10524.3	12488.2	13378.7	13340.8	14579.0	14920.3
65°	2243.7	2388.9	2992.9	6396.5	9707.1	12503.9	14143.6	14896.7	16202.9	16549.4
67.5°	1773.0	1839.7	2154.8	4911.1	8298.9	12150.9	14907.2	16359.9	17731.5	18006.0
70°	1191.2	1231.7	1567.7	3292.4	6174.2	10521.7	14892.8	17094.7	18518.6	18655.9
72.5°	627.6	659.0	916.6	1524.6	3729.1	7479.1	12553.6	16216.0	17735.4	17528.8
75°	313.8	366.1	617.2	774.1	1592.6	4171.0	7795.5	12785.1	13959.2	13159.0
77.5°	238.0	287.7	509.9	509.9	554.4	1404.3	3301.5	6973.1	6431.8	5355.7
80°	151.7	196.1	445.9	385.7	231.4	357.0	860.4	1953.5	1366.4	1039.5
82.5°	88.9	128.1	371.3	255.0	129.4	132.1	243.2	415.8	354.3	275.9
85°	35.3	83.7	255.0	100.7	51.0	32.7	73.2	88.9	73.2	54.9
87.5°	0.0	19.6	44.5	0.0	3.9	2.6	5.2	6.5	6.5	5.2
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°
3229.6	0°	3229.6	3229.6	3229.6	3229.6	3229.6	3229.6	3229.6	3229.6	3229.6	3229.6
3232.2	2.5°	3244.0	3246.6	3254.4	3255.8	3237.5	3213.9	3204.8	3200.8	3185.1	3183.8
3253.1	5°	3283.2	3295.0	3283.2	3249.2	3168.2	3054.4	2968.1	2897.5	2833.4	2813.8
3325.1	7.5°	3361.7	3373.4	3338.1	3204.8	3000.8	2774.6	2570.6	2426.8	2297.3	2249.0
3412.7	10°	3474.1	3489.8	3378.7	3109.3	2748.4	2384.9	2039.8	1796.6	1607.0	1529.8
3531.6	12.5°	3615.3	3621.9	3400.9	2964.2	2420.2	1901.2	1412.1	1151.9	983.3	920.5
3675.5	15°	3770.9	3761.8	3403.5	2766.7	1973.1	1344.1	921.8	757.1	689.1	668.1
3819.3	17.5°	3934.4	3896.4	3351.2	2481.7	1482.7	919.2	683.8	644.6	632.8	627.6
3961.8	20°	4095.2	4010.2	3255.8	2109.1	1064.3	686.5	621.1	609.3	602.8	600.2
4105.7	22.5°	4241.6	4096.5	3092.3	1676.3	772.8	606.7	587.1	576.6	564.9	559.6
4245.6	25°	4384.2	4146.2	2862.2	1272.2	618.5	567.5	551.8	532.2	516.5	509.9
4395.9	27.5°	4522.8	4177.6	2574.5	941.4	551.8	530.9	502.1	474.6	462.9	460.3
4556.8	30°	4670.5	4188.0	2247.6	702.1	511.2	485.1	443.3	411.9	405.3	406.6
4773.8	32.5°	4850.9	4203.7	1918.2	575.3	477.2	430.2	380.5	347.8	342.6	347.8
5090.2	35°	5066.7	4235.1	1600.4	529.6	447.2	374.0	320.3	292.9	287.7	291.6
5495.6	37.5°	5359.6	4286.1	1303.6	520.4	422.3	326.9	269.4	247.1	247.1	248.4
5992.4	40°	5749.2	4422.1	1038.2	513.9	409.3	291.6	227.5	218.4	222.3	224.9
6625.3	42.5°	6223.9	4711.0	859.0	506.0	394.9	275.9	206.6	202.7	209.2	211.8
7383.6	45°	6756.0	5077.1	796.3	492.9	381.8	286.3	197.4	192.2	200.1	201.4
8233.5	47.5°	7306.5	5435.4	788.4	478.6	368.7	302.0	194.8	183.1	192.2	193.5
9141.0	50°	7863.5	5669.5	796.3	456.3	347.8	302.0	196.1	173.9	181.7	185.7
10082.4	52.5°	8424.4	5776.7	791.1	408.0	311.2	283.7	196.1	166.1	173.9	176.5
11099.6	55°	8968.4	5755.8	711.3	336.0	264.1	251.0	190.9	159.5	164.7	166.1
12060.7	57.5°	9398.5	5464.2	563.5	261.5	214.4	209.2	173.9	151.7	155.6	154.3
12942.0	60°	9623.4	4823.5	402.7	201.4	168.7	164.7	153.0	141.2	143.8	137.3
13688.6	62.5°	9626.1	3976.2	269.4	159.5	134.7	130.8	130.8	126.8	124.2	111.1
14266.5	65°	9420.8	3036.1	179.1	126.8	108.5	102.0	109.8	108.5	99.4	81.1
14443.0	67.5°	8955.3	1990.1	136.0	99.4	83.7	79.8	87.6	91.5	85.0	68.0
13799.7	70°	7998.2	1158.5	112.4	77.1	62.8	58.8	70.6	78.5	70.6	54.9
11795.3	72.5°	6643.6	625.0	91.5	57.5	43.1	39.2	56.2	64.1	56.2	40.5
7568.0	75°	4310.9	334.7	70.6	37.9	22.2	24.8	41.8	47.1	39.2	26.2
2221.5	77.5°	1447.4	147.8	44.5	18.3	10.5	10.5	24.8	28.8	18.3	9.2
404.0	80°	323.0	61.5	18.3	7.8	3.9	3.9	5.2	5.2	2.6	0.0
124.2	82.5°	105.9	24.8	7.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0
31.4	85°	40.5	9.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.5	87.5°	15.7	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

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<u>180°</u>
3229.6
3186.5
2802.0
2229.3
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597.5
558.3
507.3
457.6
406.6
346.5
290.3
247.1
224.9
211.8
202.7
194.8
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176.5
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