

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: P956964

Luminaire Tested: **GALN-SB9B-950-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956964
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-SB9B-950-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 5000K, 450mA 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: 29705 lumens
Efficiency: N/A
Efficacy: 90.2 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

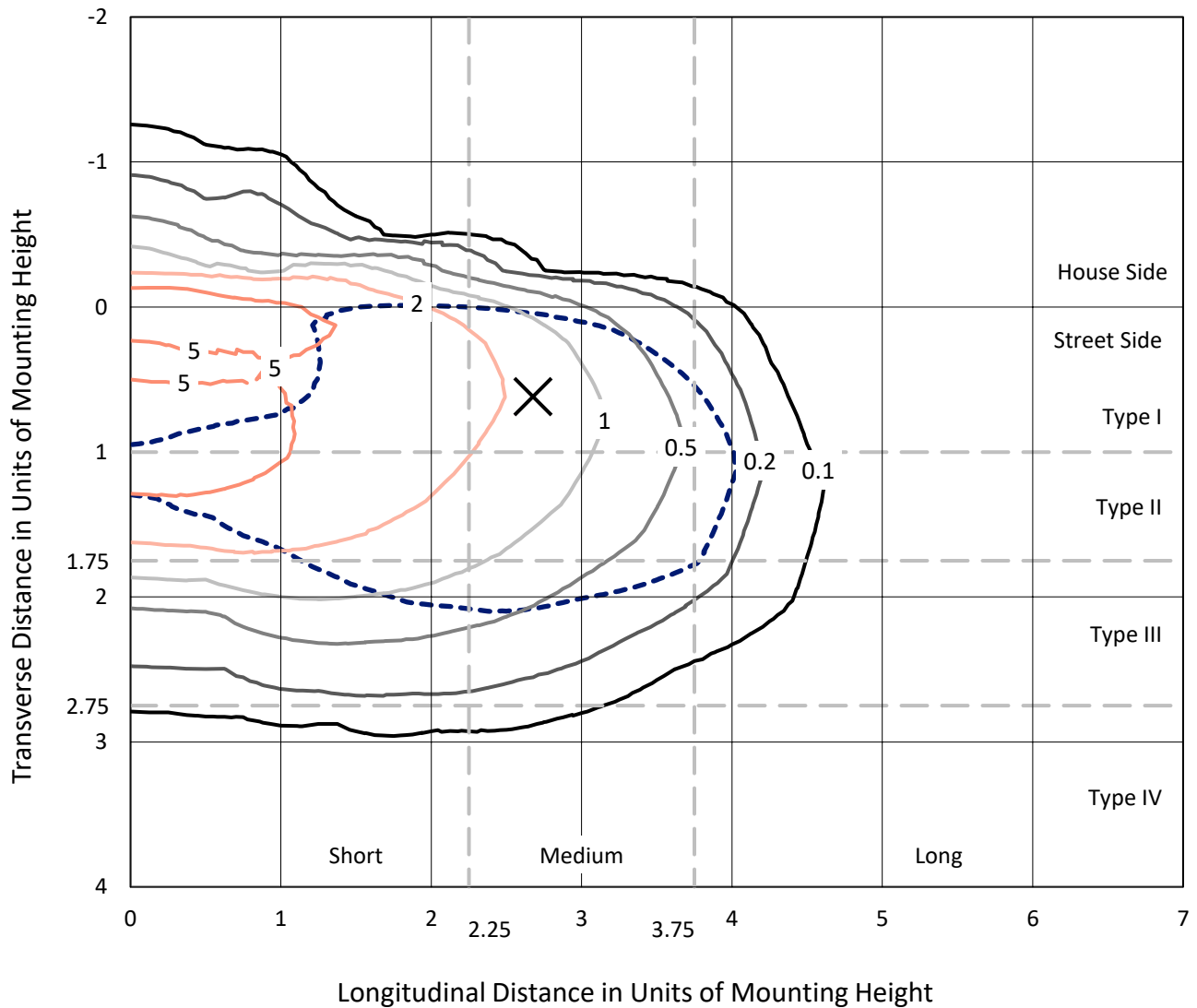
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

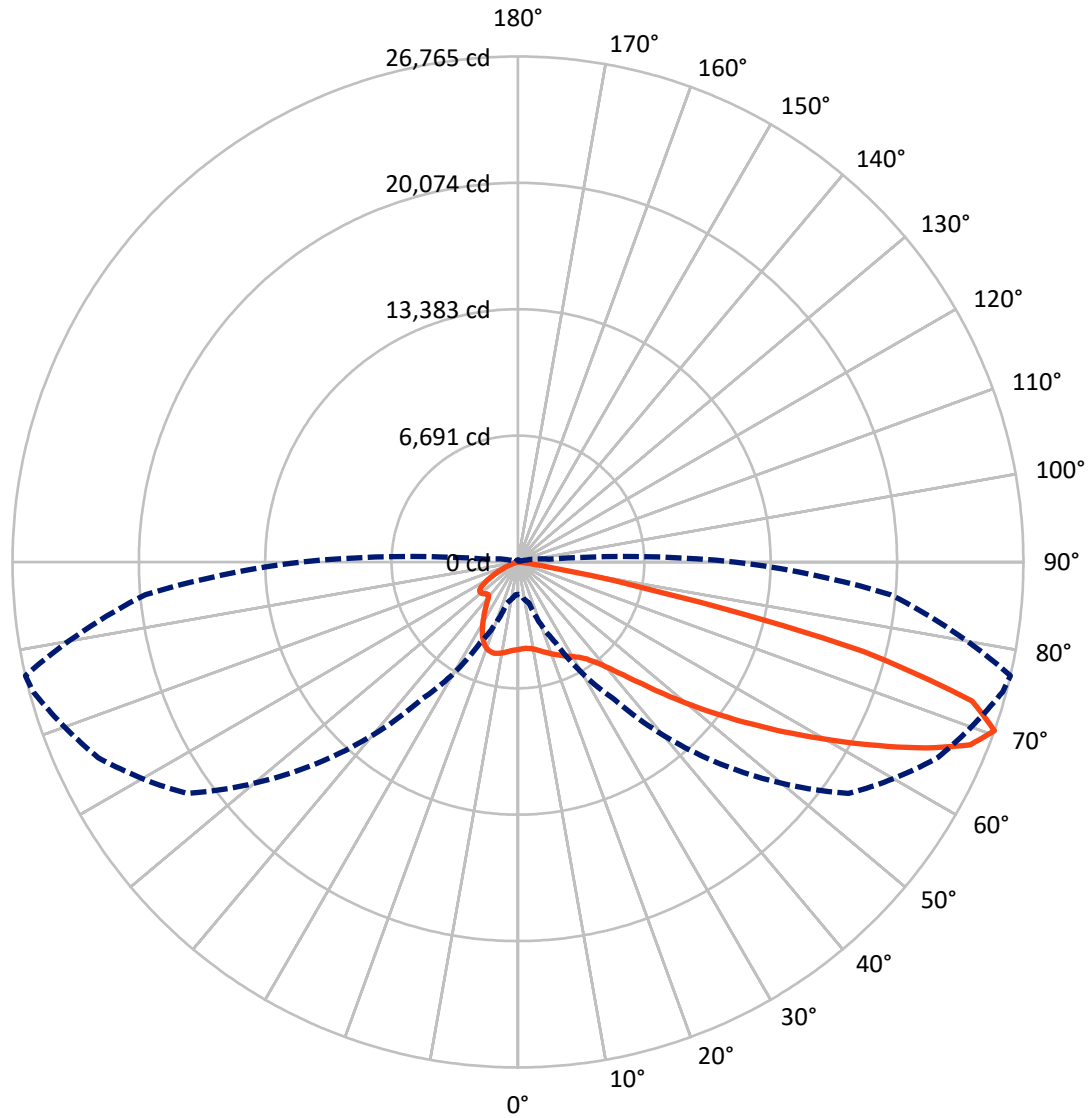
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	3131.3	0.0	3131.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	26573.7	0.0	26573.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	29705.0	0.0	29705.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.3	1.3
10°-20°	948.0	3.2
20°-30°	1466.2	4.9
30°-40°	2660.6	9.0
40°-50°	5022.1	16.9
50°-60°	7256.6	24.4
60°-70°	7724.4	26.0
70°-80°	4093.4	13.8
80°-90°	134.4	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°	29705.0	100.0
0°-180°	29705.0	100.0

Coefficient of Utilization



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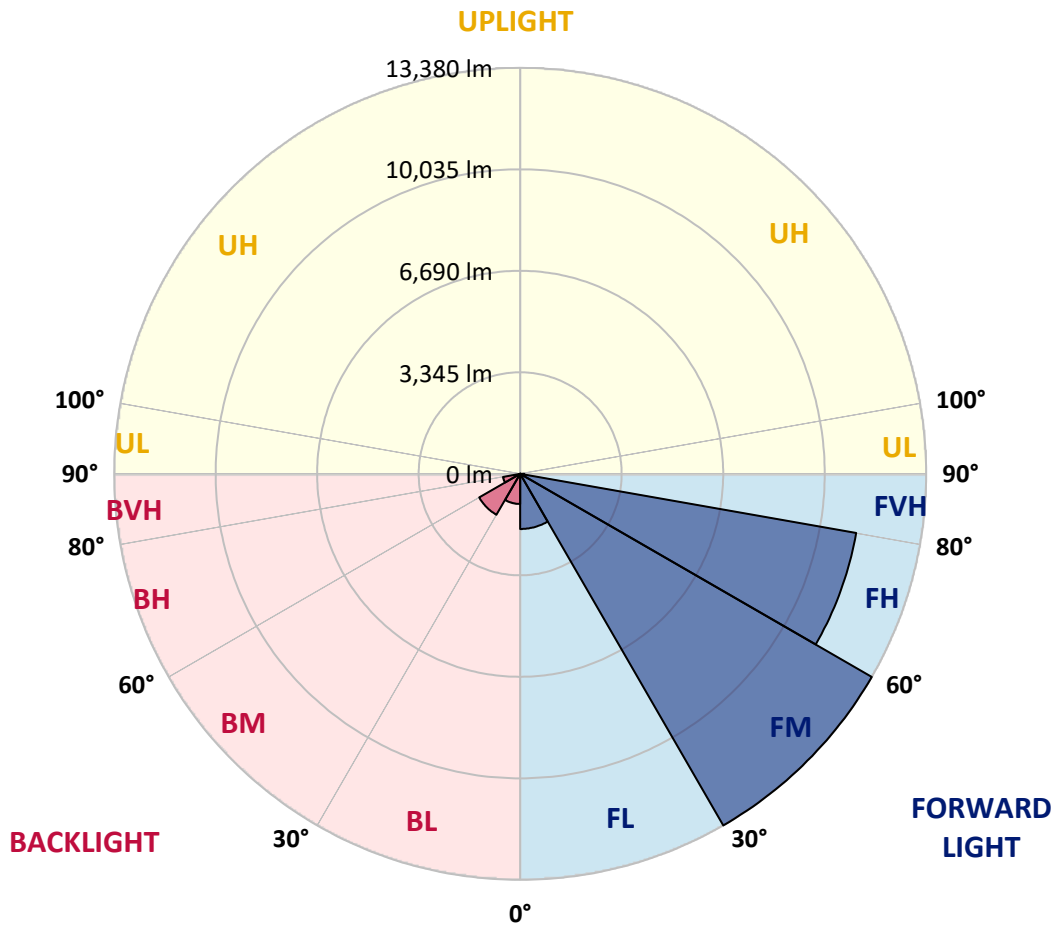
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1818.6	6.1			
FM (30°-60°)	13380.5	45.0			
FH (60°-80°)	11243.8	37.9			G4/12000
FVH (80°-90°)	130.8	0.4			G2/225
BL (0°-30°)	994.9	3.3	B2/1000		
BM (30°-60°)	1558.8	5.2	B2/2500		
BH (60°-80°)	574.1	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.6	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°	4633.4	4633.4	4633.4	4633.4	4633.4	4633.4	4633.4	4633.4	4633.4	4633.4
2.5°	4350.2	4389.6	4384.0	4410.2	4419.6	4457.1	4494.6	4545.3	4601.6	4599.7
5°	4104.4	4143.8	4153.2	4188.9	4233.9	4292.0	4368.9	4470.2	4575.3	4592.2
7.5°	3813.7	3854.9	3879.3	3950.6	4033.2	4153.2	4278.9	4427.1	4601.6	4625.9
10°	3522.9	3560.4	3592.3	3693.6	3824.9	4003.1	4207.6	4421.5	4656.0	4691.6
12.5°	3342.8	3378.5	3414.1	3502.3	3665.5	3883.1	4160.7	4447.7	4746.0	4796.6
15°	3279.1	3310.9	3339.1	3417.9	3569.8	3817.4	4151.3	4502.1	4860.4	4928.0
17.5°	3288.4	3305.3	3324.1	3384.1	3532.3	3787.4	4168.2	4595.9	4995.5	5055.5
20°	3342.8	3352.2	3354.1	3395.4	3526.7	3783.7	4202.0	4686.0	5123.1	5203.7
22.5°	3412.2	3416.0	3412.2	3440.4	3562.3	3811.8	4247.0	4794.8	5265.6	5340.7
25°	3736.8	3665.5	3575.4	3521.0	3622.3	3866.2	4314.5	4941.1	5421.3	5494.5
27.5°	4744.1	4539.6	4217.0	3854.9	3746.1	3945.0	4408.3	5089.3	5578.9	5644.5
30°	6379.9	6111.6	5563.9	4747.9	4143.8	4110.1	4530.3	5237.5	5745.8	5817.1
32.5°	8019.4	7953.8	7321.6	6192.3	5038.6	4477.7	4732.9	5438.2	5967.2	6023.5
35°	9677.7	9544.5	9026.8	7910.6	6417.4	5226.2	5070.5	5700.8	6258.0	6321.7
37.5°	10947.7	10867.0	10546.2	9627.1	8053.2	6381.8	5648.3	6107.9	6680.0	6751.3
40°	12069.5	12031.9	11923.1	11317.2	9882.2	7893.7	6546.8	6738.2	7265.3	7349.7
42.5°	12951.1	13039.3	13101.2	12932.4	11767.4	9619.6	7754.9	7623.6	8081.3	8167.6
45°	13853.4	13883.4	14132.9	14376.8	13639.6	11424.2	9116.8	8661.0	9096.2	9203.1
47.5°	14433.1	14553.1	14992.1	15421.7	15213.5	13213.8	10580.0	9885.9	10272.4	10473.1
50°	14476.2	14703.2	15307.2	16055.7	16359.6	14917.1	12170.8	11281.6	11692.4	11913.8
52.5°	13757.8	14110.4	15046.5	16142.0	16978.7	16359.6	13815.9	12677.3	13204.4	13493.3
55°	10548.1	11009.6	14065.4	15673.0	17003.0	17453.3	15417.9	14131.1	14888.9	15215.3
57.5°	9190.0	9422.6	11058.4	14858.9	16551.0	17894.1	16866.1	15515.5	16721.7	17126.9
60°	7646.1	7951.9	9274.4	13527.0	15937.5	17937.2	18145.5	17301.3	18708.2	19164.1
62.5°	5196.2	5528.2	6843.2	11238.4	15099.0	17916.6	19194.1	19139.7	20916.2	21405.8
65°	3219.0	3427.2	4293.9	9176.8	13926.6	17939.1	20291.5	21372.0	23246.0	23743.1
67.5°	2543.7	2639.4	3091.5	7045.8	11906.3	17432.6	21387.0	23471.1	25438.9	25832.9
70°	1708.9	1767.1	2249.2	4723.5	8857.9	15095.3	21366.4	24525.4	26568.2	26765.2
72.5°	900.4	945.4	1315.0	2187.3	5350.0	10730.1	18010.4	23264.8	25444.5	25148.2
75°	450.2	525.2	885.4	1110.5	2284.8	5984.1	11184.0	18342.4	20027.0	18878.9
77.5°	341.4	412.7	731.6	731.6	795.4	2014.7	4736.6	10004.1	9227.5	7683.6
80°	217.6	281.4	639.7	553.4	332.0	512.1	1234.3	2802.6	1960.3	1491.3
82.5°	127.6	183.8	532.8	365.8	185.7	189.5	348.9	596.5	508.4	395.8
85°	50.6	120.1	365.8	144.4	73.2	46.9	105.0	127.6	105.0	78.8
87.5°	0.0	28.1	63.8	0.0	5.6	3.8	7.5	9.4	9.4	7.5
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°
4633.4	0°	4633.4	4633.4	4633.4	4633.4	4633.4	4633.4	4633.4	4633.4	4633.4	4633.4
4637.2	2.5°	4654.1	4657.8	4669.1	4671.0	4644.7	4610.9	4597.8	4592.2	4569.7	4567.8
4667.2	5°	4710.4	4727.2	4710.4	4661.6	4545.3	4382.1	4258.3	4157.0	4065.0	4036.9
4770.4	7.5°	4822.9	4839.8	4789.1	4597.8	4305.2	3980.6	3688.0	3481.6	3295.9	3226.5
4896.1	10°	4984.2	5006.7	4847.3	4460.9	3943.1	3421.6	2926.4	2577.5	2305.5	2194.8
5066.8	12.5°	5186.8	5196.2	4879.2	4252.6	3472.3	2727.5	2026.0	1652.7	1410.7	1320.6
5273.1	15°	5410.1	5396.9	4882.9	3969.4	2830.7	1928.4	1322.5	1086.1	988.6	958.6
5479.5	17.5°	5644.5	5590.1	4807.9	3560.4	2127.3	1318.7	981.1	924.8	907.9	900.4
5683.9	20°	5875.3	5753.3	4671.0	3025.8	1527.0	984.8	891.0	874.2	864.8	861.0
5890.3	22.5°	6085.4	5877.2	4436.5	2404.9	1108.6	870.4	842.3	827.3	810.4	802.9
6091.0	25°	6289.9	5948.4	4106.3	1825.2	887.3	814.1	791.6	763.5	741.0	731.6
6306.7	27.5°	6488.7	5993.5	3693.6	1350.6	791.6	761.6	720.3	680.9	664.1	660.3
6537.5	30°	6700.7	6008.5	3224.7	1007.4	733.5	696.0	635.9	590.9	581.5	583.4
6848.9	32.5°	6959.5	6031.0	2751.9	825.4	684.7	617.2	545.9	499.0	491.5	499.0
7302.8	35°	7269.1	6076.0	2296.1	759.7	641.6	536.5	459.6	420.2	412.7	418.3
7884.4	37.5°	7689.3	6149.2	1870.3	746.6	605.9	469.0	386.4	354.5	354.5	356.4
8597.2	40°	8248.3	6344.3	1489.5	737.2	587.2	418.3	326.4	313.3	318.9	322.7
9505.1	42.5°	8929.2	6758.8	1232.5	726.0	566.5	395.8	296.4	290.8	300.1	303.9
10593.1	45°	9692.7	7284.1	1142.4	707.2	547.8	410.8	283.3	275.8	287.0	288.9
11812.5	47.5°	10482.5	7798.1	1131.2	686.6	529.0	433.3	279.5	262.6	275.8	277.6
13114.3	50°	11281.6	8133.9	1142.4	654.7	499.0	433.3	281.4	249.5	260.7	266.4
14465.0	52.5°	12086.3	8287.7	1134.9	585.3	446.5	407.1	281.4	238.2	249.5	253.2
15924.4	55°	12866.7	8257.7	1020.5	482.1	378.9	360.2	273.9	228.9	236.4	238.2
17303.2	57.5°	13483.9	7839.3	808.5	375.2	307.6	300.1	249.5	217.6	223.2	221.4
18567.5	60°	13806.5	6920.2	577.8	288.9	242.0	236.4	219.5	202.6	206.3	197.0
19638.7	62.5°	13810.3	5704.6	386.4	228.9	193.2	187.6	187.6	182.0	178.2	159.5
20467.8	65°	13515.8	4355.8	257.0	182.0	155.7	146.3	157.6	155.7	142.6	116.3
20721.1	67.5°	12848.0	2855.1	195.1	142.6	120.1	114.4	125.7	131.3	121.9	97.5
19798.1	70°	11474.8	1662.0	161.3	110.7	90.0	84.4	101.3	112.6	101.3	78.8
16922.4	72.5°	9531.4	896.7	131.3	82.5	61.9	56.3	80.7	91.9	80.7	58.2
10857.6	75°	6184.8	480.2	101.3	54.4	31.9	35.6	60.0	67.5	56.3	37.5
3187.1	77.5°	2076.6	212.0	63.8	26.3	15.0	15.0	35.6	41.3	26.3	13.1
579.6	80°	463.3	88.2	26.3	11.3	5.6	5.6	7.5	7.5	3.8	0.0
178.2	82.5°	151.9	35.6	11.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0
45.0	85°	58.2	13.1	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.0	87.5°	22.5	1.9	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>
4633.4
4571.5
4020.0
3198.4
2147.9
1292.5
958.6
898.6
857.3
801.0
727.8
656.6
583.4
497.1
416.4
354.5
322.7
303.9
290.8
279.5
268.3
253.2
238.2
221.4
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