

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: P950517

Luminaire Tested: **GALN-SB4D-940-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950517
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-940-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 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: 24604 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

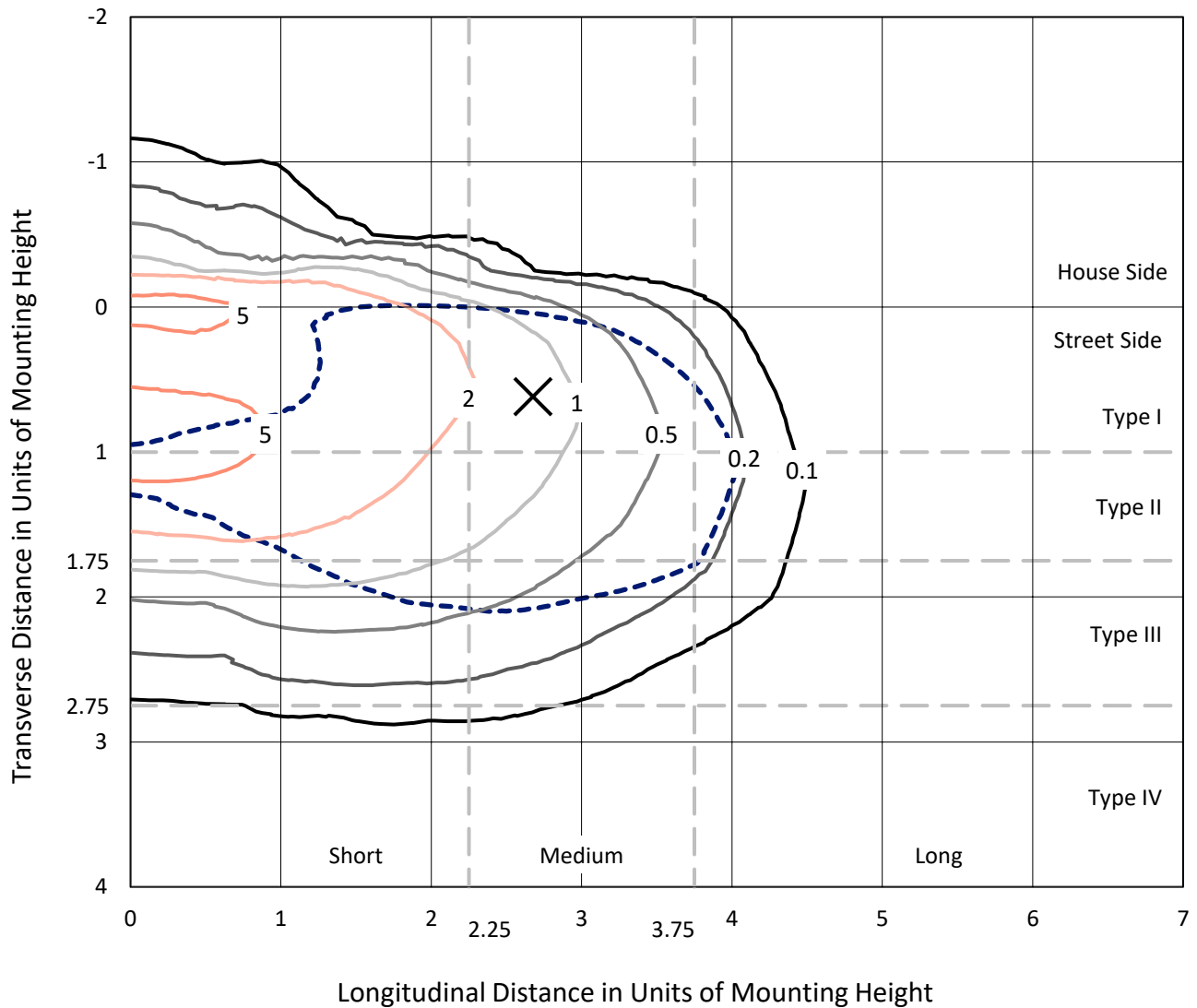
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SB4D-940-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

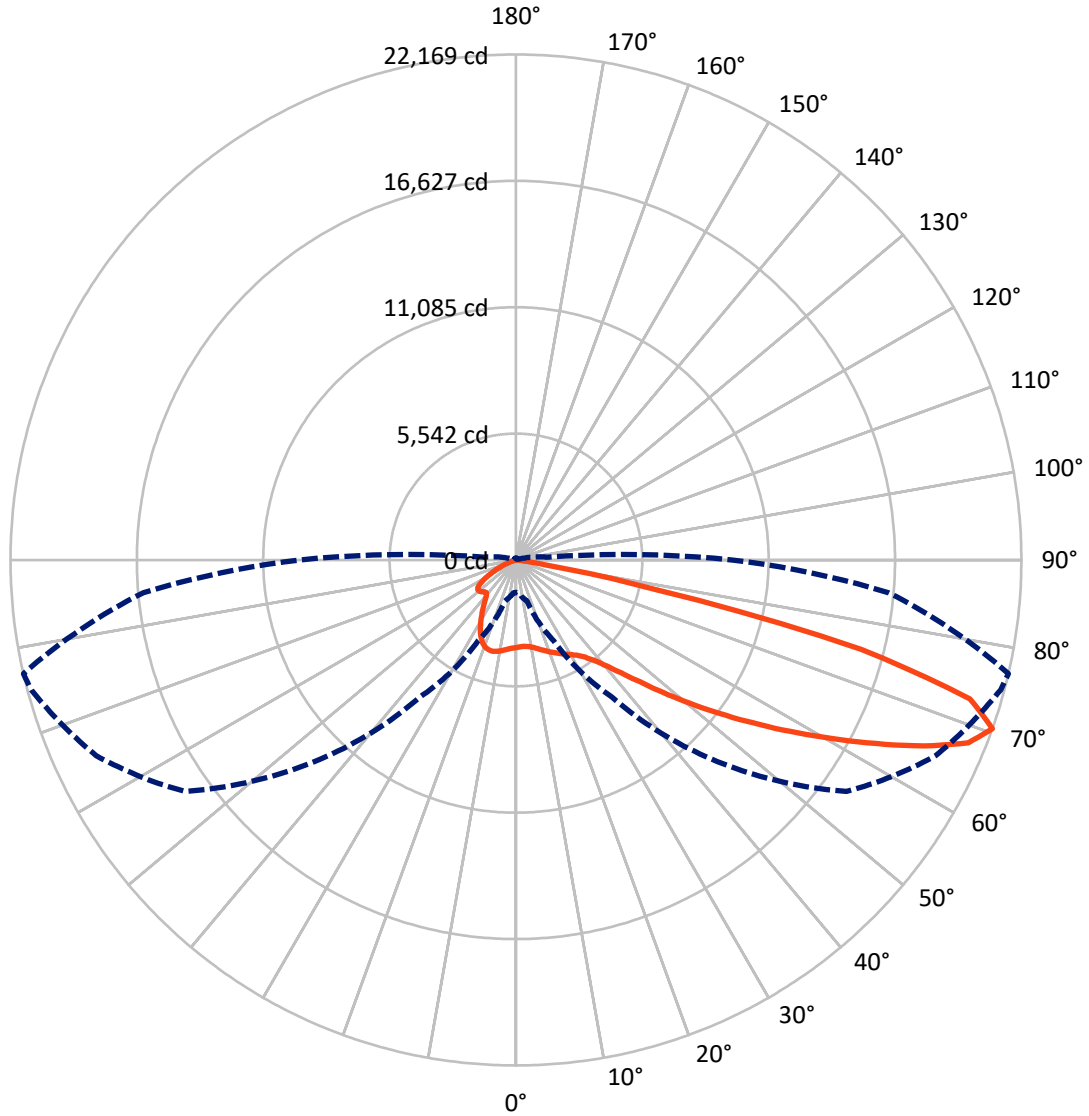
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P950517
CATALOG NUMBER: GALN-SB4D-940-U-T3R-HSS

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	2593.6	0.0	2593.6
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	22010.4	0.0	22010.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	24604.0	0.0	24604.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.8	1.3
10°-20°	785.2	3.2
20°-30°	1214.4	4.9
30°-40°	2203.7	9.0
40°-50°	4159.7	16.9
50°-60°	6010.4	24.4
60°-70°	6398.0	26.0
70°-80°	3390.5	13.8
80°-90°	111.3	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°	24604.0	100.0
0°-180°	24604.0	100.0

Coefficient of Utilization



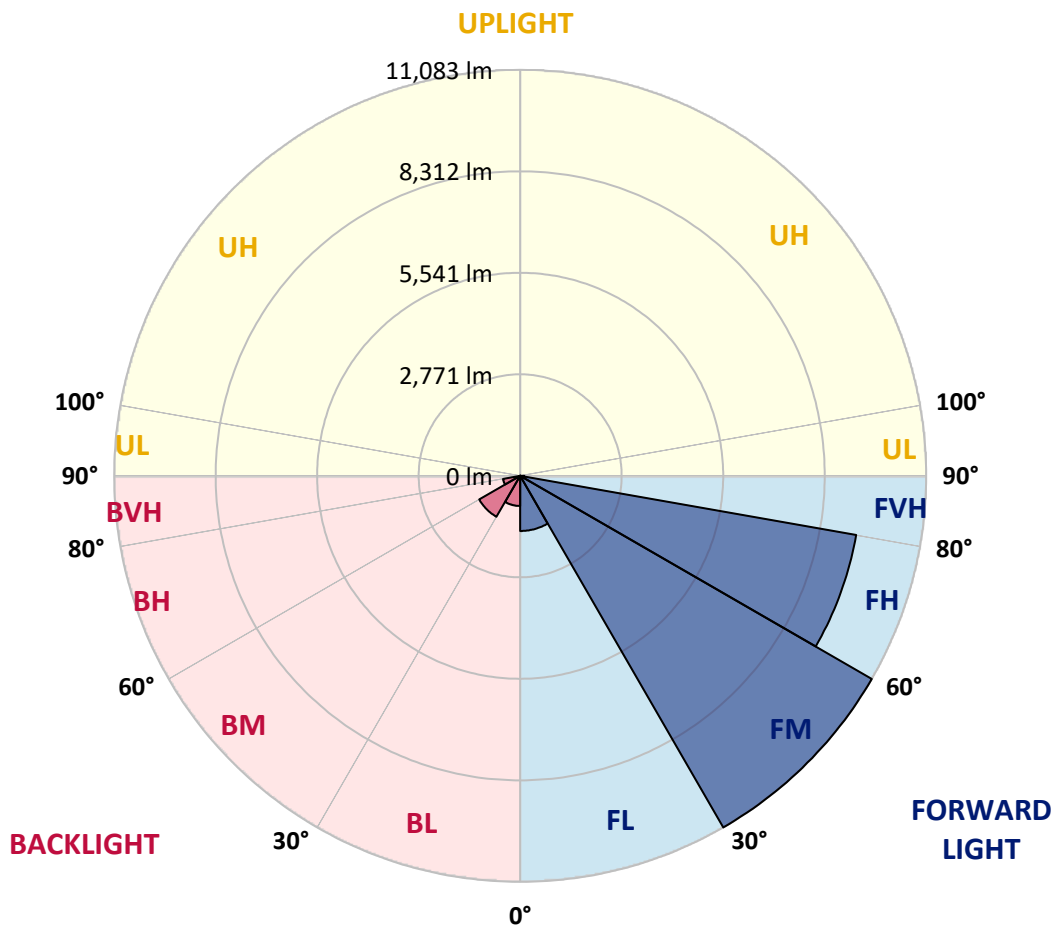
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1506.3	6.1			
FM (30°-60°)	11082.8	45.0			
FH (60°-80°)	9313.0	37.9			G4/12000
FVH (80°-90°)	108.3	0.4			G2/225
BL (0°-30°)	824.0	3.3	B2/1000		
BM (30°-60°)	1291.1	5.2	B2/2500		
BH (60°-80°)	475.5	1.9	B1/500		G1/500
BVH (80°-90°)	3.0	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



REPORT NUMBER: P950517

CATALOG NUMBER: GALN-SB4D-940-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3837.8	3837.8	3837.8	3837.8	3837.8	3837.8	3837.8	3837.8	3837.8	3837.8
2.5°	3603.2	3635.8	3631.1	3652.9	3660.7	3691.7	3722.8	3764.8	3811.4	3809.8
5°	3399.6	3432.2	3440.0	3469.5	3506.8	3555.0	3618.7	3702.6	3789.6	3803.6
7.5°	3158.8	3193.0	3213.2	3272.2	3340.6	3440.0	3544.1	3666.9	3811.4	3831.6
10°	2918.0	2949.0	2975.4	3059.3	3168.1	3315.7	3485.1	3662.2	3856.4	3885.9
12.5°	2768.8	2798.3	2827.8	2900.9	3036.0	3216.3	3446.2	3684.0	3931.0	3973.0
15°	2716.0	2742.4	2765.7	2830.9	2956.8	3161.9	3438.5	3729.0	4025.8	4081.7
17.5°	2723.7	2737.7	2753.3	2803.0	2925.7	3137.0	3452.4	3806.7	4137.7	4187.4
20°	2768.8	2776.6	2778.1	2812.3	2921.1	3133.9	3480.4	3881.3	4243.3	4310.1
22.5°	2826.3	2829.4	2826.3	2849.6	2950.6	3157.2	3517.7	3971.4	4361.4	4423.5
25°	3095.1	3036.0	2961.5	2916.4	3000.3	3202.3	3573.6	4092.6	4490.4	4551.0
27.5°	3929.5	3760.1	3492.8	3193.0	3102.9	3267.6	3651.3	4215.3	4620.9	4675.3
30°	5284.3	5062.1	4608.4	3932.6	3432.2	3404.3	3752.3	4338.1	4759.2	4818.2
32.5°	6642.3	6587.9	6064.3	5129.0	4173.4	3708.8	3920.1	4504.3	4942.5	4989.1
35°	8015.8	7905.5	7476.7	6552.2	5315.4	4328.8	4199.8	4721.9	5183.3	5236.2
37.5°	9067.7	9000.9	8735.2	7973.9	6670.3	5285.9	4678.4	5059.0	5532.9	5592.0
40°	9996.9	9965.8	9875.7	9373.8	8185.2	6538.2	5422.6	5581.1	6017.7	6087.6
42.5°	10727.1	10800.2	10851.4	10711.6	9746.7	7967.7	6423.2	6314.5	6693.6	6765.1
45°	11474.5	11499.4	11706.0	11908.0	11297.4	9462.4	7551.3	7173.7	7534.2	7622.7
47.5°	11954.6	12054.0	12417.6	12773.4	12601.0	10944.7	8763.2	8188.3	8508.4	8674.6
50°	11990.3	12178.3	12678.7	13298.6	13550.3	12355.5	10080.8	9344.3	9684.6	9867.9
52.5°	11395.3	11687.4	12462.7	13370.1	14063.1	13550.3	11443.4	10500.3	10936.9	11176.2
55°	8736.8	9119.0	11650.1	12981.6	14083.3	14456.2	12770.3	11704.5	12332.2	12602.5
57.5°	7611.9	7804.5	9159.4	12307.3	13708.8	14821.3	13969.8	12851.1	13850.2	14185.8
60°	6333.1	6586.4	7681.8	11204.1	13200.7	14857.0	15029.5	14330.3	15495.6	15873.2
62.5°	4303.9	4578.9	5668.1	9308.6	12506.2	14839.9	15898.0	15853.0	17324.4	17729.9
65°	2666.2	2838.7	3556.5	7601.0	11535.1	14858.6	16807.0	17702.0	19254.2	19665.9
67.5°	2106.9	2186.1	2560.6	5835.9	9861.7	14439.1	17714.4	19440.6	21070.5	21396.8
70°	1415.5	1463.6	1863.0	3912.4	7336.8	12503.1	17697.3	20313.8	22005.9	22169.0
72.5°	745.8	783.1	1089.2	1811.7	4431.3	8887.5	14917.6	19269.7	21075.2	20829.7
75°	372.9	435.1	733.4	919.8	1892.5	4956.5	9263.5	15192.6	16587.9	15637.0
77.5°	282.8	341.8	606.0	606.0	658.8	1668.7	3923.2	8286.2	7642.9	6364.2
80°	180.2	233.1	529.8	458.4	275.0	424.2	1022.4	2321.3	1623.7	1235.2
82.5°	105.7	152.3	441.3	303.0	153.8	156.9	289.0	494.1	421.1	327.8
85°	42.0	99.4	303.0	119.6	60.6	38.8	87.0	105.7	87.0	65.3
87.5°	0.0	23.3	52.8	0.0	4.7	3.1	6.2	7.8	7.8	6.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P950517
 CATALOG NUMBER: GALN-SB4D-940-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3837.8	0°	3837.8	3837.8	3837.8	3837.8	3837.8	3837.8	3837.8	3837.8	3837.8	3837.8
3840.9	2.5°	3854.9	3858.0	3867.3	3868.9	3847.1	3819.1	3808.3	3803.6	3785.0	3783.4
3865.7	5°	3901.5	3915.5	3901.5	3861.1	3764.8	3629.6	3527.0	3443.1	3367.0	3343.7
3951.2	7.5°	3994.7	4008.7	3966.7	3808.3	3565.9	3297.1	3054.7	2883.8	2730.0	2672.5
4055.3	10°	4128.3	4147.0	4014.9	3694.8	3266.0	2834.1	2423.9	2134.9	1909.6	1817.9
4196.7	12.5°	4296.1	4303.9	4041.3	3522.4	2876.0	2259.2	1678.1	1368.9	1168.4	1093.8
4367.6	15°	4481.0	4470.2	4044.4	3287.7	2344.6	1597.3	1095.4	899.6	818.8	794.0
4538.5	17.5°	4675.3	4630.2	3982.3	2949.0	1762.0	1092.3	812.6	766.0	752.0	745.8
4707.9	20°	4866.4	4765.4	3868.9	2506.2	1264.8	815.7	738.0	724.1	716.3	713.2
4878.8	22.5°	5040.4	4867.9	3674.6	1991.9	918.3	720.9	697.6	685.2	671.2	665.0
5045.0	25°	5209.7	4927.0	3401.2	1511.8	734.9	674.3	655.7	632.4	613.7	606.0
5223.7	27.5°	5374.4	4964.3	3059.3	1118.7	655.7	630.8	596.6	564.0	550.0	546.9
5414.8	30°	5550.0	4976.7	2670.9	834.4	607.5	576.4	526.7	489.4	481.7	483.2
5672.8	32.5°	5764.4	4995.3	2279.4	683.7	567.1	511.2	452.1	413.3	407.1	413.3
6048.8	35°	6020.8	5032.6	1901.8	629.3	531.4	444.4	380.7	348.0	341.8	346.5
6530.4	37.5°	6368.8	5093.2	1549.1	618.4	501.9	388.4	320.1	293.7	293.7	295.2
7120.9	40°	6831.9	5254.8	1233.7	610.6	486.3	346.5	270.4	259.5	264.1	267.2
7872.9	42.5°	7395.9	5598.2	1020.8	601.3	469.2	327.8	245.5	240.8	248.6	251.7
8774.1	45°	8028.3	6033.2	946.2	585.8	453.7	340.3	234.6	228.4	237.7	239.3
9784.0	47.5°	8682.4	6459.0	936.9	568.7	438.2	358.9	231.5	217.5	228.4	230.0
10862.3	50°	9344.3	6737.1	946.2	542.3	413.3	358.9	233.1	206.6	216.0	220.6
11981.0	52.5°	10010.9	6864.5	940.0	484.8	369.8	337.2	233.1	197.3	206.6	209.8
13189.8	55°	10657.2	6839.6	845.2	399.3	313.9	298.3	226.8	189.6	195.8	197.3
14331.9	57.5°	11168.4	6493.2	669.7	310.8	254.8	248.6	206.6	180.2	184.9	183.3
15379.1	60°	11435.7	5731.8	478.6	239.3	200.4	195.8	181.8	167.8	170.9	163.1
16266.3	62.5°	11438.8	4725.0	320.1	189.6	160.0	155.4	155.4	150.7	147.6	132.1
16953.0	65°	11194.8	3607.8	212.9	150.7	129.0	121.2	130.5	129.0	118.1	96.3
17162.8	67.5°	10641.7	2364.8	161.6	118.1	99.4	94.8	104.1	108.8	101.0	80.8
16398.4	70°	9504.3	1376.6	133.6	91.7	74.6	69.9	83.9	93.2	83.9	65.3
14016.4	72.5°	7894.6	742.7	108.8	68.4	51.3	46.6	66.8	76.1	66.8	48.2
8993.1	75°	5122.7	397.8	83.9	45.1	26.4	29.5	49.7	55.9	46.6	31.1
2639.8	77.5°	1720.0	175.6	52.8	21.8	12.4	12.4	29.5	34.2	21.8	10.9
480.1	80°	383.8	73.0	21.8	9.3	4.7	4.7	6.2	6.2	3.1	0.0
147.6	82.5°	125.9	29.5	9.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0
37.3	85°	48.2	10.9	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.4	87.5°	18.6	1.6	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>
3837.8
3786.5
3329.7
2649.2
1779.1
1070.5
794.0
744.2
710.1
663.5
602.9
543.8
483.2
411.7
344.9
293.7
267.2
251.7
240.8
231.5
222.2
209.8
197.3
183.3
161.6
127.4
93.2
79.2
62.2
46.6
28.0
9.3
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