

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: P950979

Luminaire Tested: **GALN-SB5B-735-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950979
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-SB5B-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 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: 23681 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

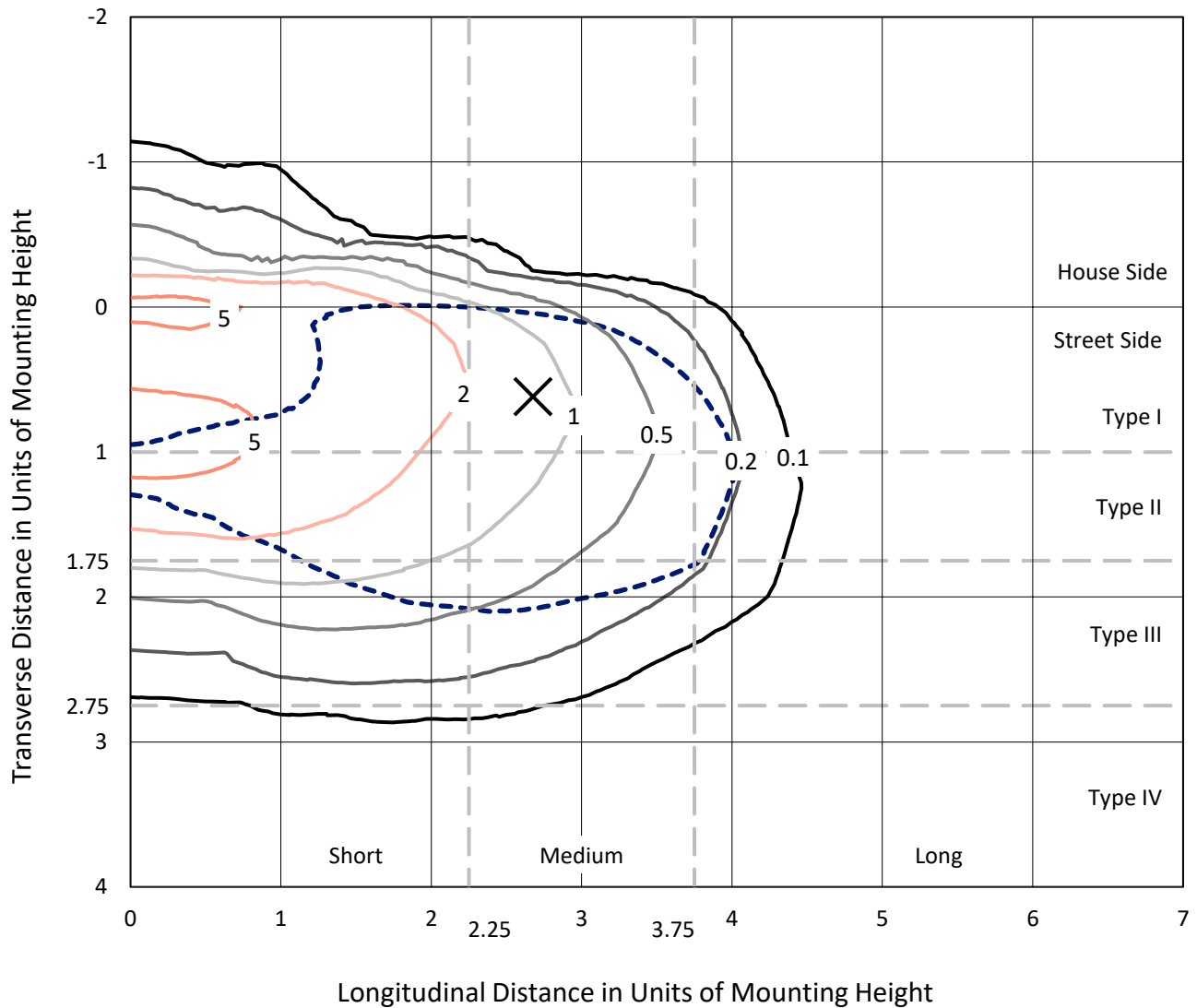
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P950979
 CATALOG NUMBER: GALN-SB5B-735-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

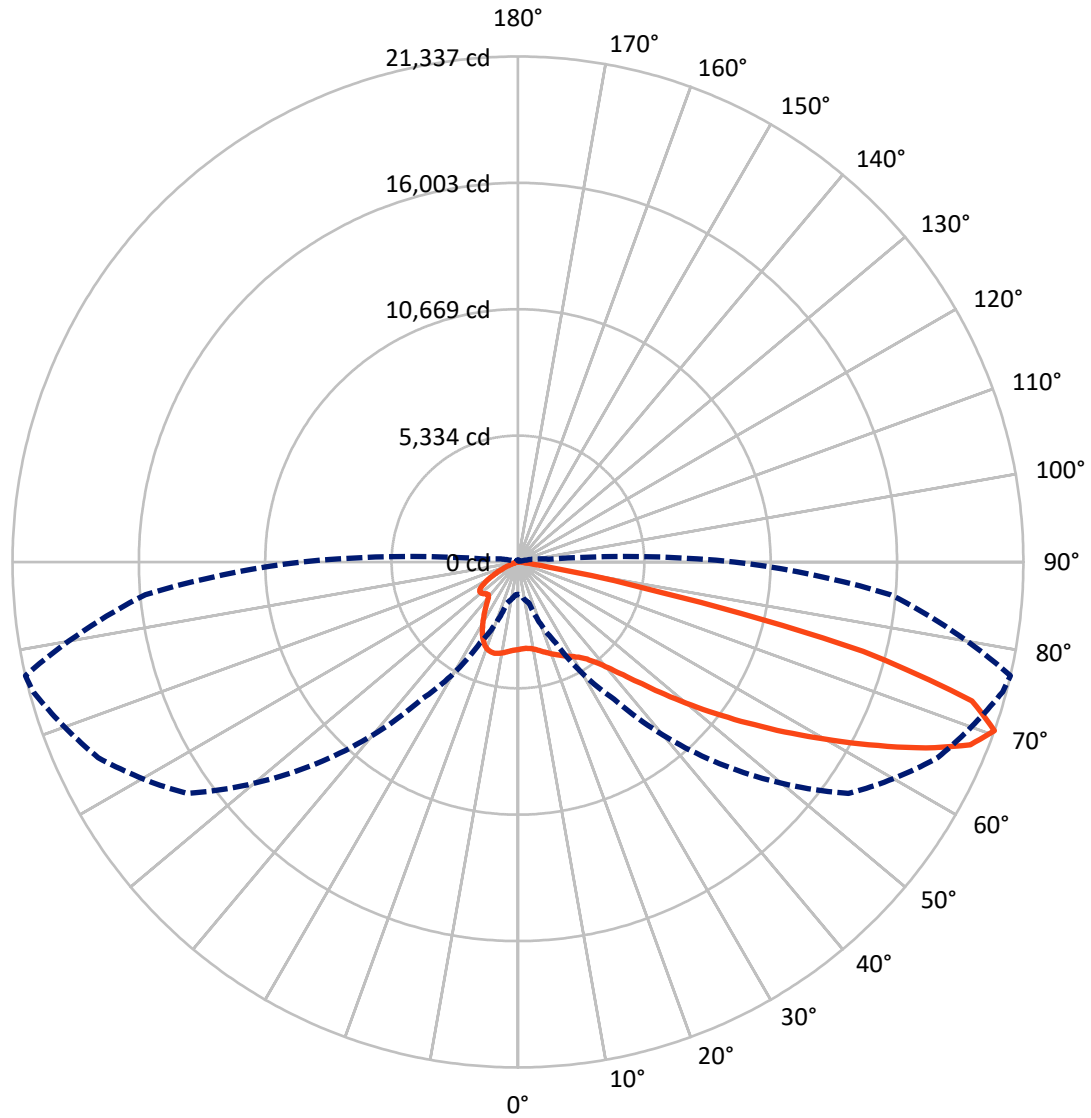
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P950979
CATALOG NUMBER: GALN-SB5B-735-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P950979

CATALOG NUMBER: GALN-SB5B-735-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2496.3	0.0	2496.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	21184.7	0.0	21184.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	23681.0	0.0	23681.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.3	1.3
10°-20°	755.7	3.2
20°-30°	1168.9	4.9
30°-40°	2121.0	9.0
40°-50°	4003.7	16.9
50°-60°	5785.0	24.4
60°-70°	6157.9	26.0
70°-80°	3263.3	13.8
80°-90°	107.2	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°	23681.0	100.0
0°-180°	23681.0	100.0

Coefficient of Utilization



REPORT NUMBER: P950979

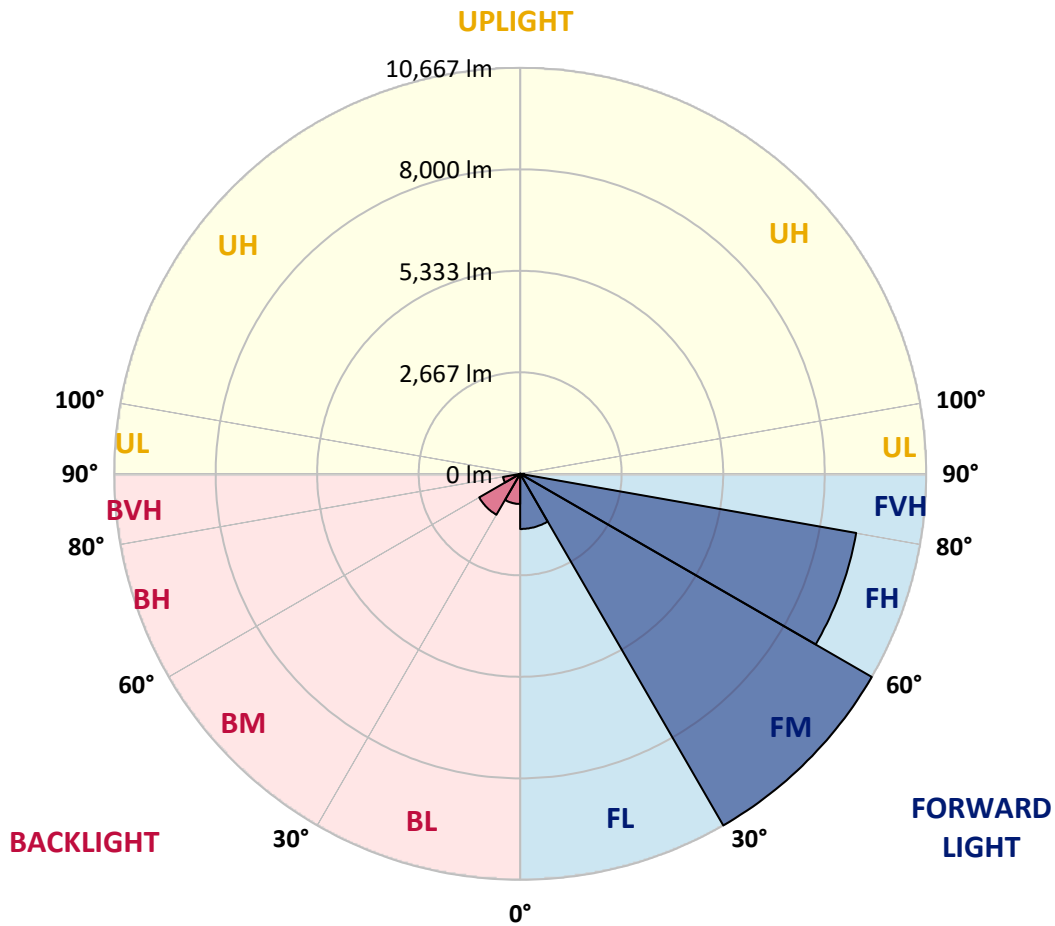
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1449.8	6.1			
FM (30°-60°)	10667.0	45.0			
FH (60°-80°)	8963.6	37.9			G4/12000
FVH (80°-90°)	104.3	0.4			G2/225
BL (0°-30°)	793.1	3.3	B2/1000		
BM (30°-60°)	1242.7	5.2	B2/2500		
BH (60°-80°)	457.6	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



REPORT NUMBER: P950979
 CATALOG NUMBER: GALN-SB5B-735-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3693.8	3693.8	3693.8	3693.8	3693.8	3693.8	3693.8	3693.8	3693.8	3693.8
2.5°	3468.0	3499.4	3494.9	3515.8	3523.3	3553.2	3583.1	3623.5	3668.4	3666.9
5°	3272.1	3303.5	3311.0	3339.4	3375.3	3421.6	3482.9	3563.7	3647.4	3660.9
7.5°	3040.3	3073.2	3092.6	3149.5	3215.3	3311.0	3411.2	3529.3	3668.4	3687.8
10°	2808.5	2838.4	2863.8	2944.6	3049.3	3191.3	3354.3	3524.8	3711.8	3740.2
12.5°	2664.9	2693.3	2721.8	2792.0	2922.1	3095.6	3317.0	3545.8	3783.5	3823.9
15°	2614.1	2639.5	2661.9	2724.7	2845.9	3043.3	3309.5	3589.1	3874.8	3928.6
17.5°	2621.6	2635.0	2650.0	2697.8	2816.0	3019.4	3322.9	3663.9	3982.4	4030.3
20°	2664.9	2672.4	2673.9	2706.8	2811.5	3016.4	3349.9	3735.7	4084.1	4148.4
22.5°	2720.3	2723.2	2720.3	2742.7	2839.9	3038.8	3385.7	3822.4	4197.8	4257.6
25°	2979.0	2922.1	2850.4	2807.0	2887.8	3082.2	3439.6	3939.1	4321.9	4380.2
27.5°	3782.0	3619.0	3361.8	3073.2	2986.5	3145.0	3514.4	4057.2	4447.5	4499.9
30°	5086.1	4872.2	4435.6	3785.0	3303.5	3276.6	3611.6	4175.3	4580.6	4637.4
32.5°	6393.1	6340.8	5836.8	4936.5	4016.8	3569.7	3773.1	4335.4	4757.1	4802.0
35°	7715.1	7608.9	7196.2	6306.4	5116.0	4166.4	4042.3	4544.7	4988.9	5039.7
37.5°	8727.6	8663.3	8407.5	7674.7	6420.0	5087.6	4502.9	4869.2	5325.4	5382.2
40°	9621.8	9591.9	9505.2	9022.2	7878.1	6292.9	5219.2	5371.7	5792.0	5859.2
42.5°	10324.7	10395.0	10444.4	10309.8	9381.1	7668.8	6182.3	6077.6	6442.5	6511.3
45°	11044.0	11068.0	11266.9	11461.3	10873.6	9107.4	7268.0	6904.6	7251.5	7336.8
47.5°	11506.1	11601.8	11951.8	12294.3	12128.3	10534.1	8434.4	7881.1	8189.2	8349.2
50°	11540.5	11721.5	12203.0	12799.7	13042.0	11892.0	9702.6	8993.8	9321.3	9497.7
52.5°	10967.8	11248.9	11995.2	12868.5	13535.5	13042.0	11014.1	10106.4	10526.6	10756.9
55°	8409.0	8776.9	11213.0	12494.6	13554.9	13913.8	12291.3	11265.4	11869.5	12129.7
57.5°	7326.3	7511.7	8815.8	11845.6	13194.5	14265.3	13445.8	12369.0	13330.6	13653.6
60°	6095.5	6339.3	7393.6	10783.8	12705.5	14299.7	14465.7	13792.7	14914.3	15277.7
62.5°	4142.4	4407.1	5455.5	8959.4	12037.0	14283.2	15301.6	15258.3	16674.5	17064.8
65°	2566.2	2732.2	3423.1	7315.8	11102.4	14301.2	16176.5	17037.9	18531.9	18928.2
67.5°	2027.9	2104.1	2464.5	5617.0	9491.7	13897.4	17049.8	18711.3	20280.1	20594.1
70°	1362.4	1408.7	1793.1	3765.6	7061.6	12034.0	17033.4	19551.8	21180.3	21337.4
72.5°	717.8	753.7	1048.3	1743.7	4265.1	8554.1	14358.0	18546.8	20284.5	20048.3
75°	358.9	418.7	705.9	885.3	1821.5	4770.5	8916.0	14622.7	15965.6	15050.4
77.5°	272.2	329.0	583.2	583.2	634.1	1606.1	3776.1	7975.3	7356.2	6125.4
80°	173.5	224.3	510.0	441.2	264.7	408.3	984.0	2234.2	1562.8	1188.9
82.5°	101.7	146.6	424.7	291.6	148.1	151.0	278.2	475.6	405.3	315.5
85°	40.4	95.7	291.6	115.2	58.3	37.4	83.7	101.7	83.7	62.8
87.5°	0.0	22.4	50.8	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

REPORT NUMBER: P950979
 CATALOG NUMBER: GALN-SB5B-735-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3693.8	0°	3693.8	3693.8	3693.8	3693.8	3693.8	3693.8	3693.8	3693.8	3693.8	3693.8
3696.8	2.5°	3710.3	3713.2	3722.2	3723.7	3702.8	3675.9	3665.4	3660.9	3643.0	3641.5
3720.7	5°	3755.1	3768.6	3755.1	3716.2	3623.5	3493.4	3394.7	3314.0	3240.7	3218.2
3803.0	7.5°	3844.9	3858.3	3817.9	3665.4	3432.1	3173.4	2940.1	2775.6	2627.5	2572.2
3903.2	10°	3973.5	3991.4	3864.3	3556.2	3143.5	2727.7	2332.9	2054.8	1837.9	1749.7
4039.3	12.5°	4135.0	4142.4	3889.7	3390.2	2768.1	2174.4	1615.1	1317.5	1124.6	1052.8
4203.8	15°	4312.9	4302.5	3892.7	3164.4	2256.7	1537.3	1054.3	865.9	788.1	764.2
4368.3	17.5°	4499.9	4456.5	3832.9	2838.4	1695.9	1051.3	782.1	737.3	723.8	717.8
4531.3	20°	4683.8	4586.6	3723.7	2412.2	1217.3	785.1	710.3	696.9	689.4	686.4
4695.8	22.5°	4851.3	4685.3	3536.8	1917.2	883.8	693.9	671.5	659.5	646.0	640.1
4855.8	25°	5014.3	4742.1	3273.6	1455.1	707.4	649.0	631.1	608.7	590.7	583.2
5027.8	27.5°	5172.8	4778.0	2944.6	1076.7	631.1	607.2	574.3	542.9	529.4	526.4
5211.7	30°	5341.8	4790.0	2570.7	803.1	584.7	554.8	507.0	471.1	463.6	465.1
5460.0	32.5°	5548.2	4807.9	2193.9	658.0	545.8	492.0	435.2	397.8	391.8	397.8
5821.9	35°	5794.9	4843.8	1830.5	605.7	511.5	427.7	366.4	335.0	329.0	333.5
6285.5	37.5°	6129.9	4902.1	1491.0	595.2	483.0	373.9	308.1	282.6	282.6	284.1
6853.7	40°	6575.6	5057.7	1187.4	587.7	468.1	333.5	260.2	249.7	254.2	257.2
7577.5	42.5°	7118.4	5388.2	982.5	578.7	451.6	315.5	236.3	231.8	239.3	242.3
8444.9	45°	7727.1	5806.9	910.7	563.8	436.7	327.5	225.8	219.8	228.8	230.3
9417.0	47.5°	8356.7	6216.7	901.8	547.3	421.7	345.5	222.8	209.4	219.8	221.3
10454.8	50°	8993.8	6484.4	910.7	521.9	397.8	345.5	224.3	198.9	207.9	212.4
11531.6	52.5°	9635.3	6607.0	904.8	466.6	355.9	324.5	224.3	189.9	198.9	201.9
12695.0	55°	10257.4	6583.1	813.5	384.3	302.1	287.1	218.3	182.4	188.4	189.9
13794.2	57.5°	10749.4	6249.6	644.5	299.1	245.3	239.3	198.9	173.5	178.0	176.5
14802.2	60°	11006.7	5516.8	460.6	230.3	192.9	188.4	175.0	161.5	164.5	157.0
15656.1	62.5°	11009.6	4547.7	308.1	182.4	154.0	149.5	149.5	145.1	142.1	127.1
16317.1	65°	10774.9	3472.5	204.9	145.1	124.1	116.6	125.6	124.1	113.7	92.7
16519.0	67.5°	10242.5	2276.1	155.5	113.7	95.7	91.2	100.2	104.7	97.2	77.8
15783.2	70°	9147.8	1325.0	128.6	88.2	71.8	67.3	80.8	89.7	80.8	62.8
13490.6	72.5°	7598.5	714.8	104.7	65.8	49.4	44.9	64.3	73.3	64.3	46.4
8655.8	75°	4930.6	382.8	80.8	43.4	25.4	28.4	47.9	53.8	44.9	29.9
2540.8	77.5°	1655.5	169.0	50.8	20.9	12.0	12.0	28.4	32.9	20.9	10.5
462.1	80°	369.4	70.3	20.9	9.0	4.5	4.5	6.0	6.0	3.0	0.0
142.1	82.5°	121.1	28.4	9.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
35.9	85°	46.4	10.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.0	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

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<u>180°</u>
3693.8
3644.5
3204.8
2549.8
1712.3
1030.4
764.2
716.3
683.4
638.6
580.2
523.4
465.1
396.3
332.0
282.6
257.2
242.3
231.8
222.8
213.9
201.9
189.9
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