

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: P948839

Luminaire Tested: **GALN-SB3D-735-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948839
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23518 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

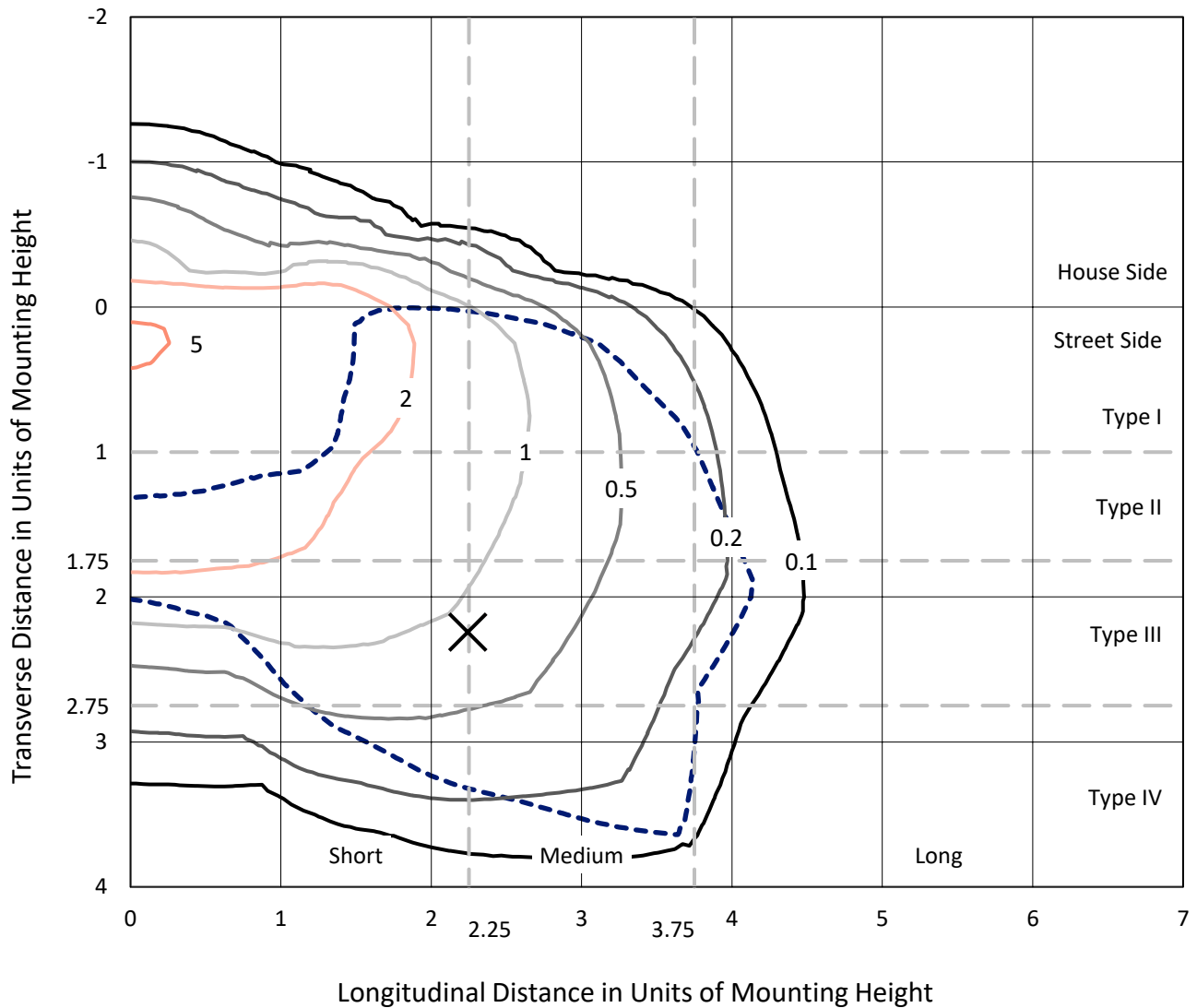
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

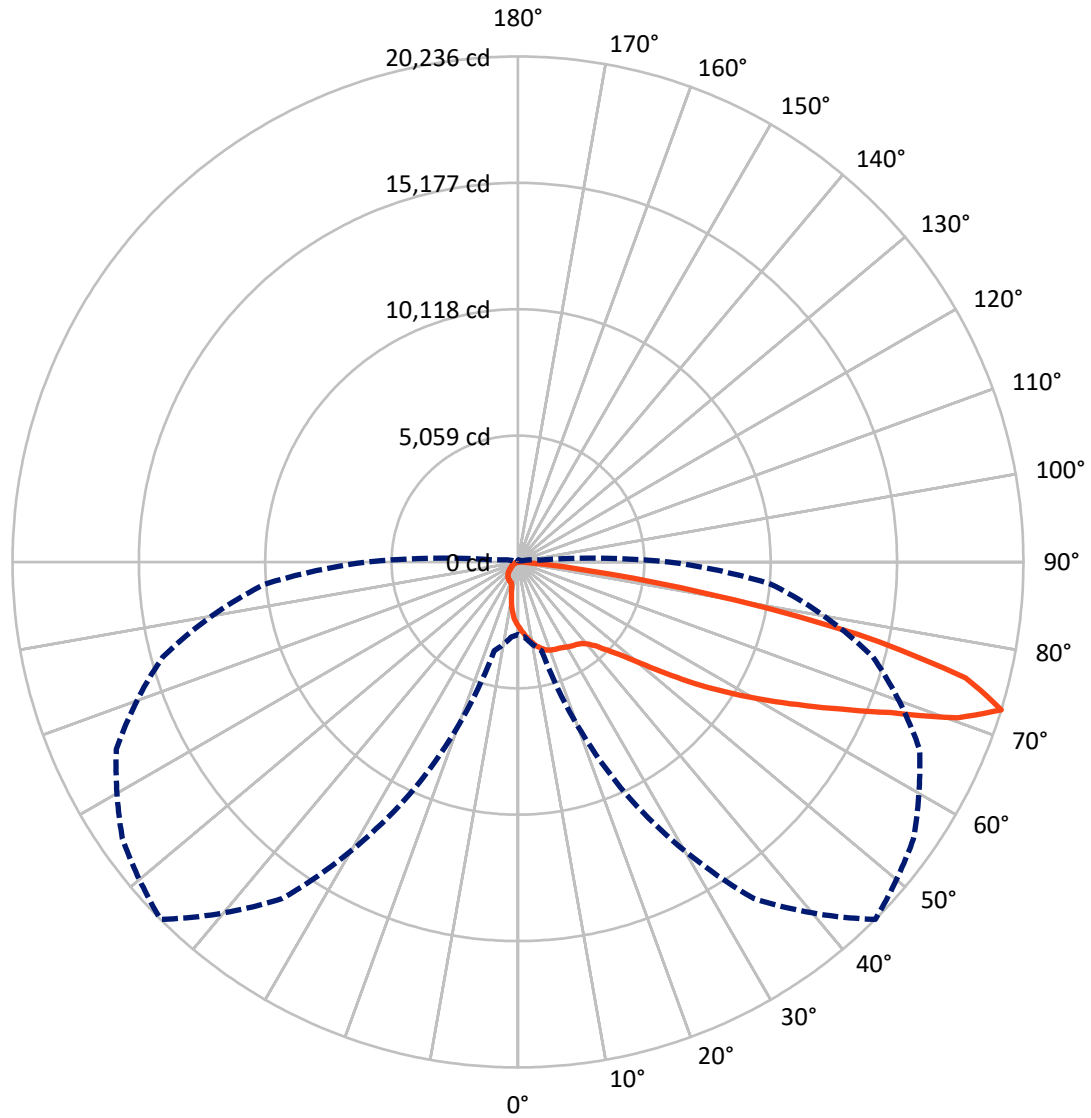
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2471.1	0.0	2471.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	21046.9	0.0	21046.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	23518.0	0.0	23518.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.7	1.0
10°-20°	709.5	3.0
20°-30°	1165.1	5.0
30°-40°	1652.3	7.0
40°-50°	2731.1	11.6
50°-60°	4906.1	20.9
60°-70°	6812.4	29.0
70°-80°	4941.5	21.0
80°-90°	357.3	1.5
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°	23518.0	100.0
0°-180°	23518.0	100.0

Coefficient of Utilization



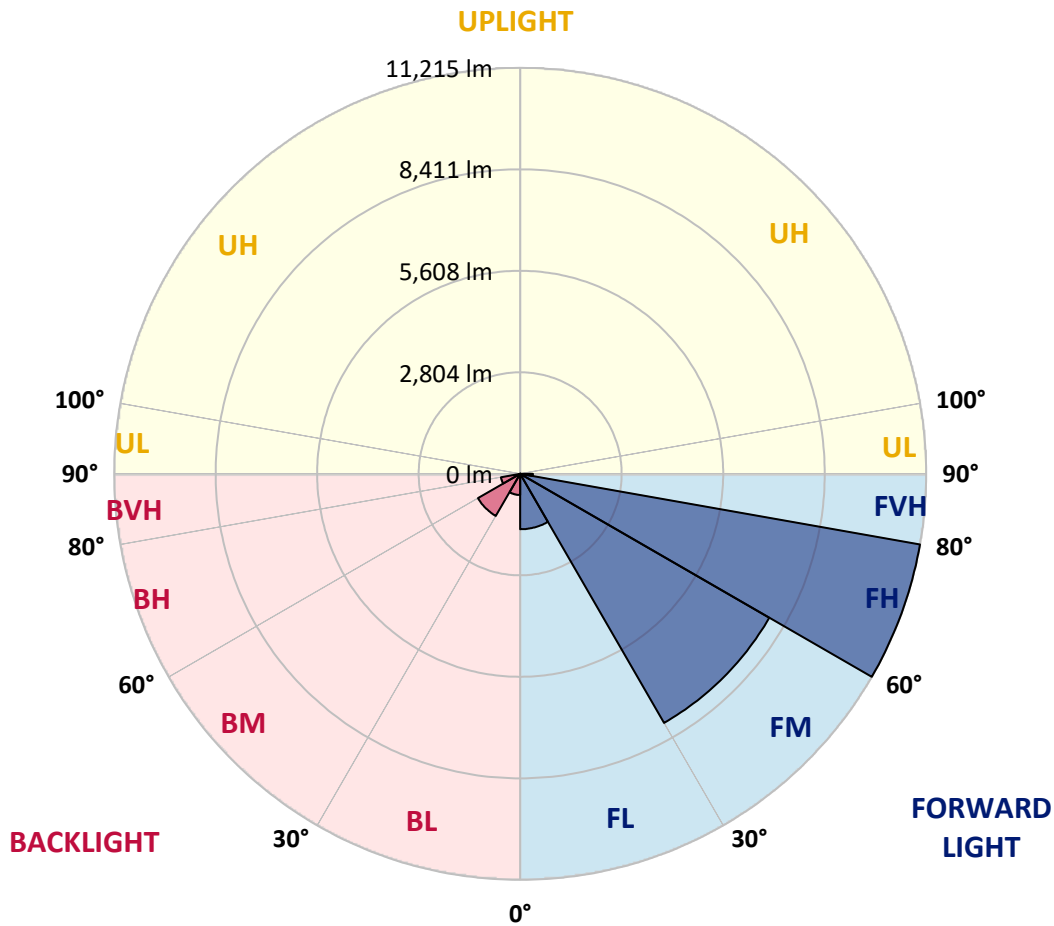
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1532.0	6.5			
FM (30°-60°)	7945.6	33.8			
FH (60°-80°)	11215.1	47.7			G4/12000
FVH (80°-90°)	354.3	1.5			G3/500
BL (0°-30°)	585.3	2.5	B2/1000		
BM (30°-60°)	1343.9	5.7	B2/2500		
BH (60°-80°)	538.9	2.3	B2/1000		G2/1000
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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2576.4	2576.4	2576.4	2576.4	2576.4	2576.4	2576.4	2576.4	2576.4	2576.4
2.5°	2814.0	2818.8	2815.6	2796.4	2764.3	2746.6	2737.0	2704.9	2684.0	2647.1
5°	3072.5	3091.7	3080.5	3042.0	2981.0	2937.6	2924.8	2859.0	2799.6	2730.6
7.5°	3347.0	3356.6	3335.7	3286.0	3204.1	3130.3	3119.0	3027.5	2932.8	2826.9
10°	3584.6	3595.8	3563.7	3491.4	3398.3	3306.8	3290.8	3189.7	3077.3	2947.3
12.5°	3783.6	3794.8	3753.1	3666.4	3563.7	3469.0	3452.9	3347.0	3223.4	3078.9
15°	3934.5	3955.4	3899.2	3806.1	3695.3	3600.6	3592.6	3488.2	3367.8	3207.3
17.5°	4022.8	4043.7	3990.7	3878.3	3783.6	3703.3	3693.7	3607.0	3494.7	3340.6
20°	4037.2	4056.5	4000.3	3902.4	3823.7	3759.5	3754.7	3692.1	3610.2	3462.6
22.5°	3993.9	4018.0	3966.6	3887.9	3833.4	3799.7	3793.2	3757.9	3711.4	3586.2
25°	3948.9	3968.2	3929.7	3860.7	3831.8	3828.6	3833.4	3826.9	3817.3	3711.4
27.5°	3945.7	3966.6	3923.3	3857.4	3841.4	3875.1	3879.9	3910.4	3918.4	3825.3
30°	3973.0	3987.5	3945.7	3876.7	3868.7	3945.7	3947.3	4001.9	4014.8	3921.7
32.5°	4032.4	4048.5	4006.7	3905.6	3894.4	4001.9	4006.7	4079.0	4099.8	4024.4
35°	4172.1	4191.3	4143.2	3985.9	3945.7	4054.9	4069.3	4154.4	4196.2	4133.6
37.5°	4520.4	4464.2	4398.4	4148.0	4062.9	4138.4	4162.4	4262.0	4335.8	4263.6
40°	5385.7	5209.1	5003.6	4424.1	4268.4	4316.6	4335.8	4435.3	4536.5	4465.8
42.5°	6684.3	6475.6	6144.9	5059.8	4578.2	4602.3	4616.7	4703.4	4846.3	4790.1
45°	7841.7	7766.3	7429.2	6144.9	5157.7	5038.9	5056.6	5101.5	5311.8	5290.9
47.5°	8731.0	8687.7	8427.6	7390.6	6136.9	5573.5	5623.2	5644.1	5947.5	6021.3
50°	9414.9	9398.8	9166.1	8498.3	7416.3	6361.7	6379.3	6334.4	6788.7	6971.7
52.5°	10060.2	10114.8	9943.0	9527.2	8782.4	7393.8	7390.6	7178.7	7791.9	8068.1
55°	10642.9	10662.2	10679.8	10577.1	10156.5	8568.9	8538.4	8191.7	8955.8	9241.5
57.5°	11190.3	11198.3	11355.6	11565.9	11586.8	9830.6	9774.4	9358.7	10227.1	10431.0
60°	11557.9	11594.8	11927.1	12511.4	12766.7	11132.5	11102.0	10678.2	11521.0	11615.7
62.5°	11028.2	11252.9	12090.8	13249.8	13880.7	12575.6	12561.2	12163.1	12882.2	12805.2
65°	8926.9	9307.3	10780.9	13749.1	14973.9	14187.3	14208.2	13784.4	14280.4	14030.0
67.5°	6244.5	6645.8	8389.1	13789.2	16195.5	16079.9	16200.3	15535.7	15765.3	15203.4
70°	4318.2	4525.2	5660.2	12925.6	17147.4	18686.9	18683.7	17686.8	17242.1	15738.0
72.5°	2903.9	3011.5	3676.1	10254.4	16447.5	20235.9	20142.8	19330.6	17739.8	14718.7
75°	1224.8	1303.5	1701.6	5762.9	13012.3	18513.5	18261.5	17083.2	15762.1	11590.0
77.5°	388.5	422.2	671.0	2062.8	7167.5	13916.0	13649.6	10668.6	10564.2	5814.3
80°	184.6	215.1	377.2	828.3	2820.4	7568.8	7531.9	4839.9	4544.5	1569.9
82.5°	80.3	94.7	208.7	443.1	1261.7	2700.1	2754.6	1647.0	1362.9	595.6
85°	25.7	33.7	96.3	203.9	532.9	671.0	663.0	391.7	549.0	324.3
87.5°	0.0	0.0	32.1	46.6	54.6	38.5	43.3	33.7	152.5	89.9
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°
2576.4	0°	2576.4	2576.4	2576.4	2576.4	2576.4	2576.4	2576.4	2576.4	2576.4	2576.4
2608.6	2.5°	2589.3	2563.6	2518.7	2476.9	2440.0	2403.1	2380.6	2348.5	2345.3	2345.3
2650.3	5°	2606.9	2565.2	2484.9	2399.9	2301.9	2208.8	2115.7	2025.8	1996.9	1976.1
2717.7	7.5°	2658.3	2592.5	2465.7	2303.6	2117.3	1913.5	1770.6	1616.5	1557.1	1525.0
2807.6	10°	2732.2	2642.3	2449.6	2165.5	1863.7	1586.0	1382.1	1215.2	1151.0	1123.7
2905.5	12.5°	2814.0	2703.3	2420.7	1993.7	1586.0	1253.7	1054.7	977.6	968.0	968.0
3022.7	15°	2911.9	2777.1	2371.0	1791.5	1295.4	992.1	921.4	924.6	934.3	940.7
3136.7	17.5°	3013.1	2855.8	2292.3	1565.1	1038.6	892.5	894.1	898.9	907.0	913.4
3260.3	20°	3122.2	2934.4	2188.0	1324.3	890.9	863.6	868.4	873.3	879.7	882.9
3375.9	22.5°	3239.4	3008.3	2064.4	1088.4	841.2	839.6	841.2	846.0	854.0	854.0
3510.7	25°	3364.6	3090.1	1923.1	916.6	815.5	815.5	818.7	821.9	828.3	828.3
3640.7	27.5°	3493.1	3165.6	1773.8	826.7	793.0	791.4	791.4	796.2	799.4	801.0
3769.2	30°	3634.3	3253.9	1624.5	807.4	775.3	767.3	762.5	765.7	768.9	770.5
3904.0	32.5°	3778.8	3338.9	1491.3	815.5	757.7	743.2	727.2	724.0	724.0	730.4
4043.7	35°	3939.3	3432.1	1388.6	842.8	748.1	707.9	682.2	667.8	669.4	679.0
4210.6	37.5°	4131.9	3544.4	1313.1	866.8	741.6	667.8	626.1	608.4	597.2	608.4
4440.2	40°	4384.0	3709.8	1258.5	886.1	733.6	621.2	565.1	536.2	515.3	521.7
4796.5	42.5°	4754.8	3969.8	1237.7	887.7	715.9	566.7	502.4	463.9	433.4	435.0
5332.7	45°	5274.9	4380.8	1345.2	866.8	677.4	507.3	436.6	385.3	366.0	361.2
6133.7	47.5°	5987.6	4979.5	1594.0	823.5	621.2	449.5	372.4	329.1	314.6	306.6
7185.2	50°	6942.8	5748.4	1870.1	775.3	565.1	394.9	319.4	292.2	282.5	274.5
8432.4	52.5°	8050.4	6528.6	2096.5	727.2	508.9	346.7	285.7	269.7	261.7	255.2
9636.4	55°	9066.5	7066.4	2083.6	675.8	454.3	308.2	261.7	252.0	242.4	236.0
10673.4	57.5°	9699.0	7141.8	1717.6	619.6	391.7	277.7	239.2	232.8	221.5	213.5
11570.7	60°	9989.6	6711.6	1203.9	545.8	329.1	248.8	215.1	211.9	197.4	186.2
12419.9	62.5°	10042.5	5912.2	802.6	454.3	274.5	221.5	191.0	186.2	166.9	147.7
13110.2	65°	9827.4	4769.2	555.4	354.8	234.4	192.6	163.7	154.1	133.2	114.0
13273.9	67.5°	9146.8	3348.6	386.9	255.2	199.1	152.5	130.0	126.8	110.8	94.7
12439.2	70°	7899.5	1908.7	258.4	191.0	157.3	104.3	102.7	105.9	89.9	77.1
10162.9	72.5°	6056.7	873.3	160.5	139.7	107.6	70.6	81.9	83.5	69.0	57.8
6340.8	75°	3565.3	374.0	101.1	89.9	54.6	46.6	59.4	61.0	46.6	36.9
2318.0	77.5°	1213.6	141.3	64.2	53.0	27.3	25.7	38.5	38.5	25.7	14.4
465.5	80°	276.1	53.0	32.1	20.9	12.8	11.2	12.8	11.2	6.4	1.6
142.9	82.5°	78.7	20.9	12.8	8.0	4.8	4.8	1.6	0.0	0.0	0.0
49.8	85°	22.5	9.6	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0
17.7	87.5°	9.6	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>
2576.4
2353.3
1985.7
1529.8
1123.7
968.0
940.7
913.4
884.5
857.2
829.9
802.6
773.7
735.2
683.8
605.2
518.5
428.6
354.8
301.8
272.9
253.6
232.8
211.9
183.0
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