

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: P948923

Luminaire Tested: **GALN-SB3D-827-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948923
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-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 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: 20451 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

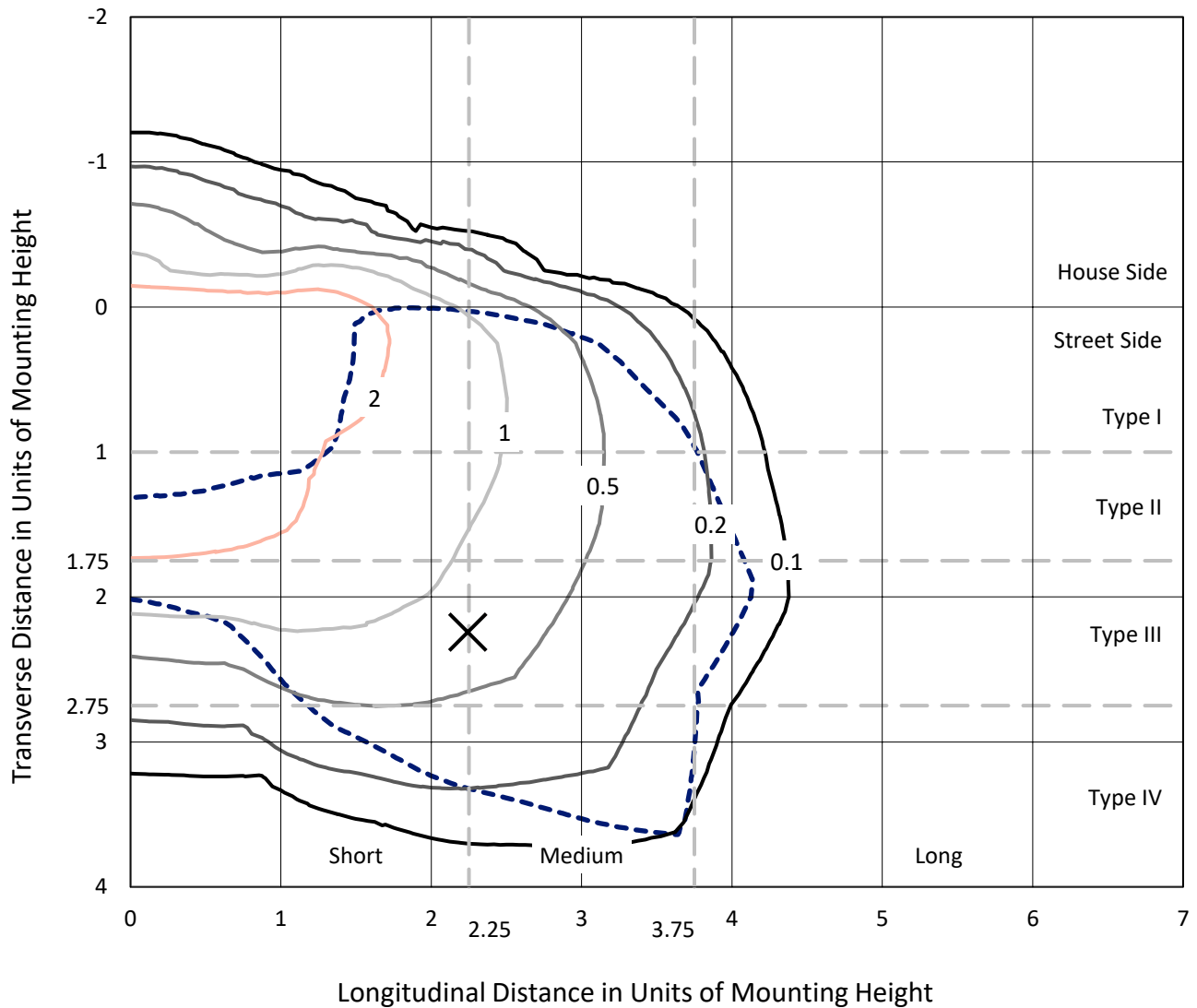
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

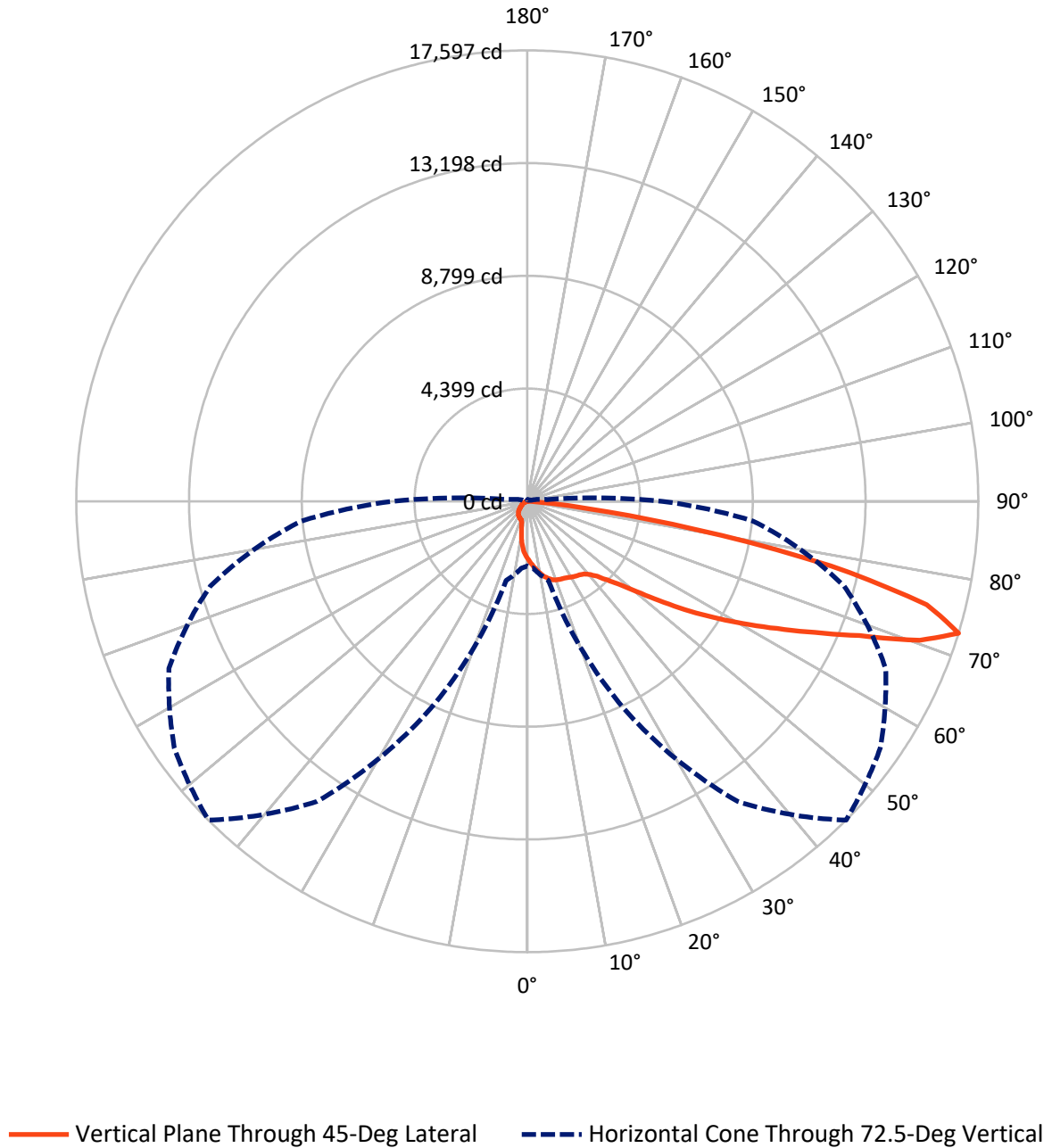
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2148.8	0.0	2148.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	18302.2	0.0	18302.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	20451.0	0.0	20451.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.1	1.0
10°-20°	616.9	3.0
20°-30°	1013.1	5.0
30°-40°	1436.8	7.0
40°-50°	2374.9	11.6
50°-60°	4266.3	20.9
60°-70°	5924.0	29.0
70°-80°	4297.1	21.0
80°-90°	310.7	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°	20451.0	100.0
0°-180°	20451.0	100.0

Coefficient of Utilization



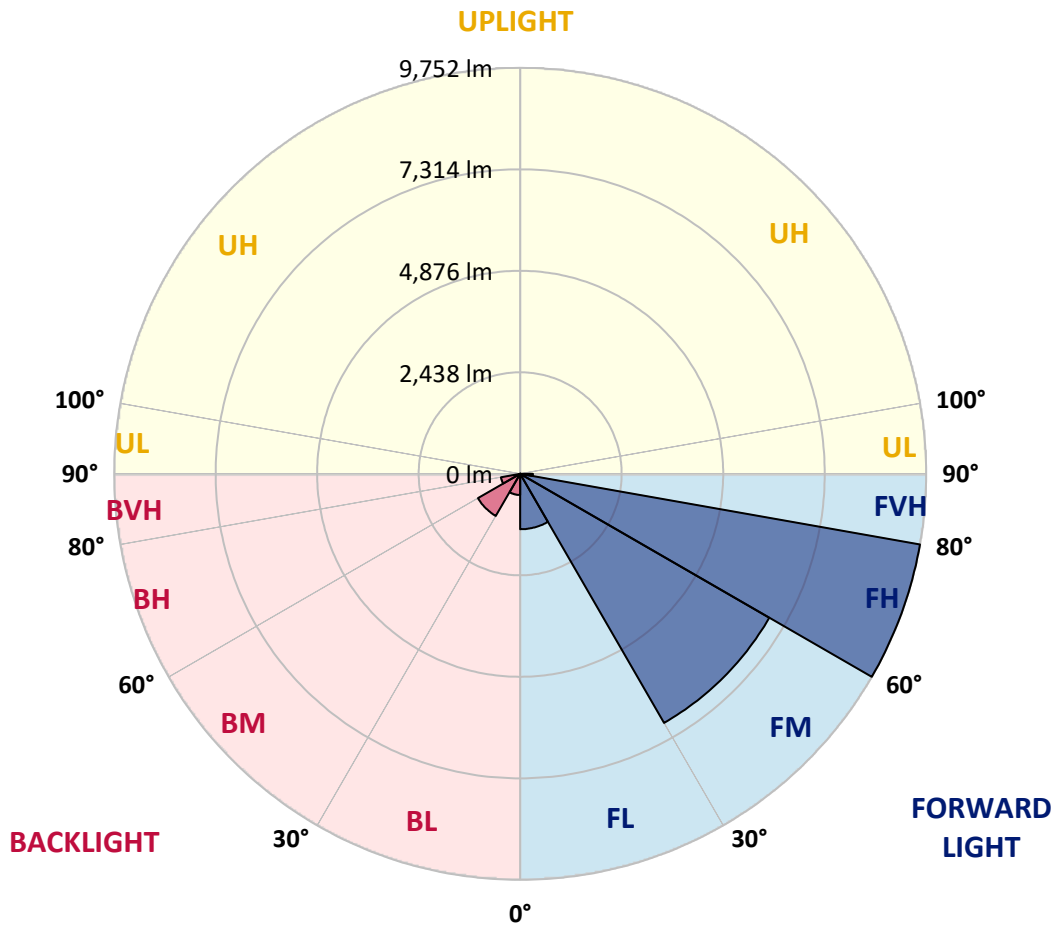
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1332.2	6.5			
FM (30°-60°)	6909.4	33.8			
FH (60°-80°)	9752.5	47.7			G4/12000
FVH (80°-90°)	308.1	1.5			G3/500
BL (0°-30°)	509.0	2.5	B2/1000		
BM (30°-60°)	1168.7	5.7	B2/2500		
BH (60°-80°)	468.6	2.3	B1/500		G1/500
BVH (80°-90°)	2.6	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2240.5	2240.5	2240.5	2240.5	2240.5	2240.5	2240.5	2240.5	2240.5	2240.5
2.5°	2447.0	2451.2	2448.4	2431.7	2403.8	2388.4	2380.0	2352.1	2334.0	2301.9
5°	2671.8	2688.5	2678.8	2645.3	2592.2	2554.5	2543.4	2486.1	2434.5	2374.5
7.5°	2910.5	2918.9	2900.7	2857.4	2786.3	2722.0	2712.3	2632.7	2550.3	2458.2
10°	3117.1	3126.9	3098.9	3036.1	2955.2	2875.6	2861.6	2773.7	2676.0	2562.9
12.5°	3290.2	3300.0	3263.7	3188.3	3098.9	3016.6	3002.6	2910.5	2803.0	2677.4
15°	3421.4	3439.5	3390.7	3309.7	3213.4	3131.0	3124.1	3033.3	2928.6	2789.0
17.5°	3498.2	3516.3	3470.3	3372.5	3290.2	3220.4	3212.0	3136.6	3038.9	2904.9
20°	3510.7	3527.5	3478.6	3393.5	3325.1	3269.2	3265.1	3210.6	3139.4	3011.0
22.5°	3473.0	3494.0	3449.3	3380.9	3333.5	3304.1	3298.6	3267.8	3227.4	3118.5
25°	3434.0	3450.7	3417.2	3357.2	3332.1	3329.3	3333.5	3327.9	3319.5	3227.4
27.5°	3431.2	3449.3	3411.6	3354.4	3340.4	3369.7	3373.9	3400.5	3407.4	3326.5
30°	3454.9	3467.5	3431.2	3371.1	3364.2	3431.2	3432.6	3480.0	3491.2	3410.2
32.5°	3506.5	3520.5	3484.2	3396.3	3386.5	3480.0	3484.2	3547.0	3565.2	3499.6
35°	3628.0	3644.7	3602.9	3466.1	3431.2	3526.1	3538.7	3612.6	3648.9	3594.5
37.5°	3930.9	3882.1	3824.8	3607.1	3533.1	3598.7	3619.6	3706.2	3770.4	3707.6
40°	4683.3	4529.8	4351.1	3847.2	3711.7	3753.6	3770.4	3856.9	3944.9	3883.4
42.5°	5812.6	5631.1	5343.6	4399.9	3981.2	4002.1	4014.7	4090.0	4214.3	4165.4
45°	6819.1	6753.5	6460.3	5343.6	4485.1	4381.8	4397.1	4436.2	4619.1	4601.0
47.5°	7592.4	7554.7	7328.6	6426.8	5336.6	4846.6	4889.9	4908.1	5171.9	5236.1
50°	8187.1	8173.1	7970.7	7390.0	6449.1	5532.0	5547.4	5508.3	5903.3	6062.5
52.5°	8748.2	8795.7	8646.3	8284.8	7637.1	6429.6	6426.8	6242.6	6775.8	7015.9
55°	9254.9	9271.7	9287.1	9197.7	8832.0	7451.4	7424.9	7123.4	7787.8	8036.3
57.5°	9731.0	9737.9	9874.7	10057.6	10075.7	8548.6	8499.8	8138.2	8893.4	9070.7
60°	10050.6	10082.7	10371.7	10879.8	11101.7	9680.7	9654.2	9285.7	10018.5	10100.9
62.5°	9590.0	9785.4	10514.1	11521.9	12070.5	10935.6	10923.1	10576.9	11202.3	11135.2
65°	7762.7	8093.5	9375.0	11956.0	13021.1	12337.1	12355.3	11986.8	12418.1	12200.3
67.5°	5430.1	5779.1	7295.1	11990.9	14083.4	13982.9	14087.6	13509.7	13709.3	13220.8
70°	3755.0	3935.1	4922.0	11239.9	14911.2	16249.9	16247.1	15380.2	14993.6	13685.6
72.5°	2525.2	2618.7	3196.7	8917.1	14302.6	17597.0	17516.0	16809.7	15426.3	12799.2
75°	1065.1	1133.5	1479.7	5011.4	11315.3	16099.1	15880.0	14855.4	13706.5	10078.5
77.5°	337.8	367.1	583.5	1793.8	6232.8	12101.2	11869.5	9277.3	9186.5	5056.0
80°	160.5	187.1	328.0	720.3	2452.6	6581.8	6549.7	4208.7	3951.8	1365.2
82.5°	69.8	82.4	181.5	385.3	1097.2	2347.9	2395.4	1432.2	1185.1	517.9
85°	22.3	29.3	83.8	177.3	463.4	583.5	576.5	340.6	477.4	282.0
87.5°	0.0	0.0	27.9	40.5	47.5	33.5	37.7	29.3	132.6	78.2
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°
2240.5	0°	2240.5	2240.5	2240.5	2240.5	2240.5	2240.5	2240.5	2240.5	2240.5	2240.5
2268.4	2.5°	2251.6	2229.3	2190.2	2153.9	2121.8	2089.7	2070.1	2042.2	2039.4	2039.4
2304.7	5°	2267.0	2230.7	2160.9	2086.9	2001.7	1920.8	1839.8	1761.7	1736.5	1718.4
2363.3	7.5°	2311.6	2254.4	2144.1	2003.1	1841.2	1663.9	1539.7	1405.7	1354.0	1326.1
2441.5	10°	2375.9	2297.7	2130.2	1883.1	1620.7	1379.2	1201.9	1056.7	1000.9	977.1
2526.6	12.5°	2447.0	2350.7	2105.0	1733.7	1379.2	1090.2	917.1	850.1	841.7	841.7
2628.5	15°	2532.2	2414.9	2061.8	1557.8	1126.5	862.7	801.3	804.0	812.4	818.0
2727.6	17.5°	2620.1	2483.3	1993.4	1361.0	903.2	776.1	777.5	781.7	788.7	794.3
2835.1	20°	2715.1	2551.7	1902.6	1151.6	774.7	751.0	755.2	759.4	765.0	767.8
2935.6	22.5°	2817.0	2616.0	1795.2	946.4	731.5	730.1	731.5	735.6	742.6	742.6
3052.9	25°	2925.8	2687.1	1672.3	797.1	709.1	709.1	711.9	714.7	720.3	720.3
3165.9	27.5°	3037.5	2752.8	1542.5	718.9	689.6	688.2	688.2	692.4	695.2	696.6
3277.6	30°	3160.4	2829.5	1412.7	702.1	674.2	667.2	663.1	665.9	668.6	670.0
3394.9	32.5°	3286.0	2903.5	1296.8	709.1	658.9	646.3	632.4	629.6	629.6	635.1
3516.3	35°	3425.6	2984.5	1207.5	732.9	650.5	615.6	593.3	580.7	582.1	590.5
3661.5	37.5°	3593.1	3082.2	1141.9	753.8	644.9	580.7	544.4	529.1	519.3	529.1
3861.1	40°	3812.3	3226.0	1094.4	770.5	637.9	540.2	491.4	466.2	448.1	453.7
4171.0	42.5°	4134.7	3452.1	1076.3	771.9	622.6	492.8	436.9	403.4	376.9	378.3
4637.2	45°	4587.0	3809.5	1169.8	753.8	589.1	441.1	379.7	335.0	318.3	314.1
5333.8	47.5°	5206.8	4330.1	1386.1	716.1	540.2	390.9	323.9	286.2	273.6	266.6
6248.1	50°	6037.4	4998.8	1626.2	674.2	491.4	343.4	277.8	254.1	245.7	238.7
7332.8	52.5°	7000.5	5677.2	1823.1	632.4	442.5	301.5	248.5	234.5	227.5	222.0
8379.7	55°	7884.2	6144.8	1811.9	587.7	395.0	268.0	227.5	219.2	210.8	205.2
9281.5	57.5°	8434.1	6210.4	1493.6	538.8	340.6	241.5	208.0	202.4	192.6	185.7
10061.8	60°	8686.8	5836.3	1046.9	474.6	286.2	216.4	187.1	184.3	171.7	161.9
10800.2	62.5°	8732.9	5141.2	698.0	395.0	238.7	192.6	166.1	161.9	145.2	128.4
11400.5	65°	8545.8	4147.3	483.0	308.5	203.8	167.5	142.4	134.0	115.9	99.1
11542.9	67.5°	7953.9	2911.9	336.4	222.0	173.1	132.6	113.1	110.3	96.3	82.4
10817.0	70°	6869.3	1659.7	224.7	166.1	136.8	90.7	89.3	92.1	78.2	67.0
8837.6	72.5°	5266.8	759.4	139.6	121.4	93.5	61.4	71.2	72.6	60.0	50.3
5513.9	75°	3100.3	325.2	87.9	78.2	47.5	40.5	51.6	53.0	40.5	32.1
2015.7	77.5°	1055.3	122.8	55.8	46.1	23.7	22.3	33.5	33.5	22.3	12.6
404.8	80°	240.1	46.1	27.9	18.1	11.2	9.8	11.2	9.8	5.6	1.4
124.2	82.5°	68.4	18.1	11.2	7.0	4.2	4.2	1.4	0.0	0.0	0.0
43.3	85°	19.5	8.4	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0
15.4	87.5°	8.4	1.4	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>
2240.5
2046.4
1726.8
1330.3
977.1
841.7
818.0
794.3
769.2
745.4
721.7
698.0
672.8
639.3
594.7
526.3
450.9
372.7
308.5
262.4
237.3
220.6
202.4
184.3
159.1
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93.5
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