

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: P954383

Luminaire Tested: **GALN-SB7C-927-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954383
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-SB7C-927-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 615mA 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: 24972 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

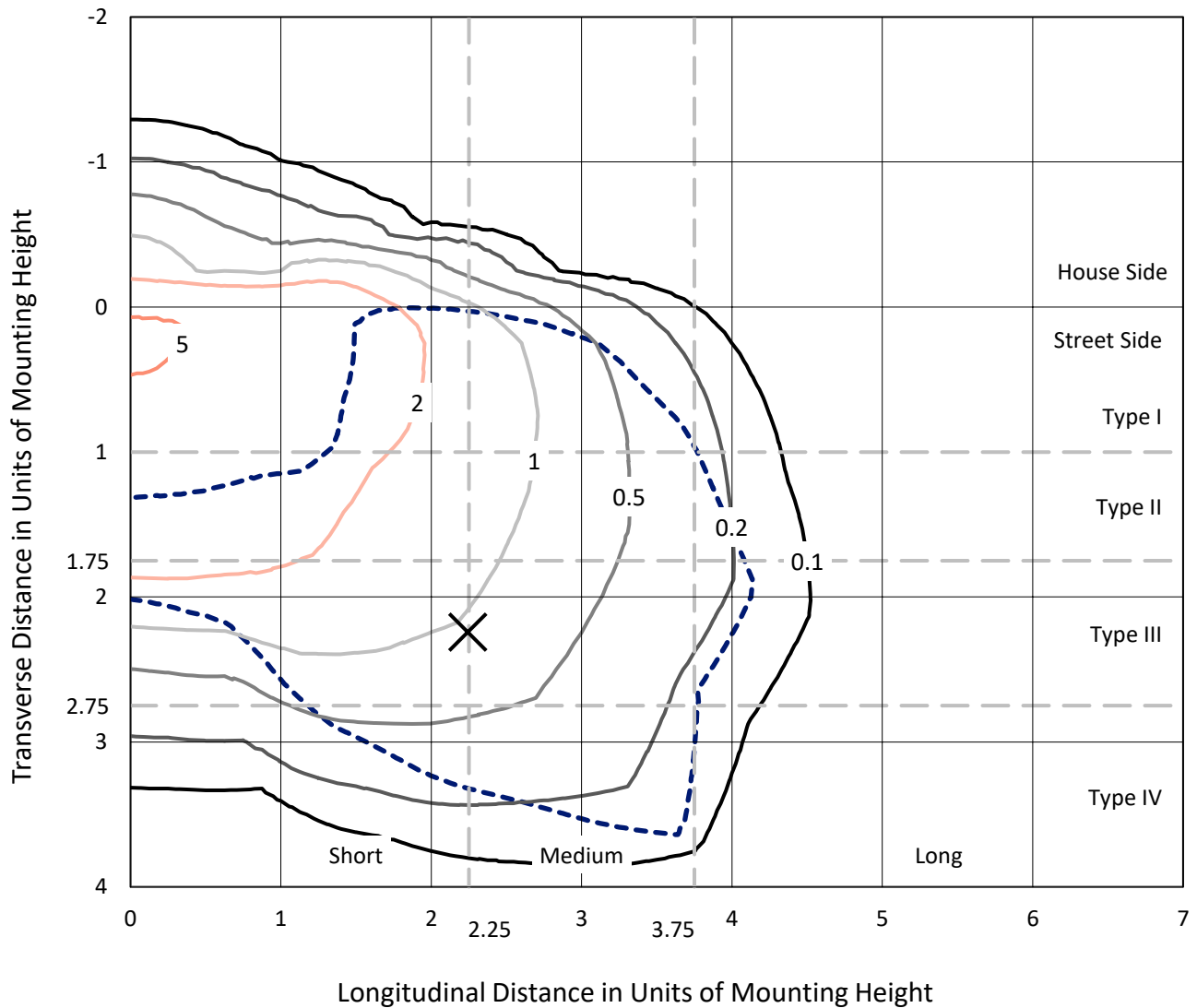
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

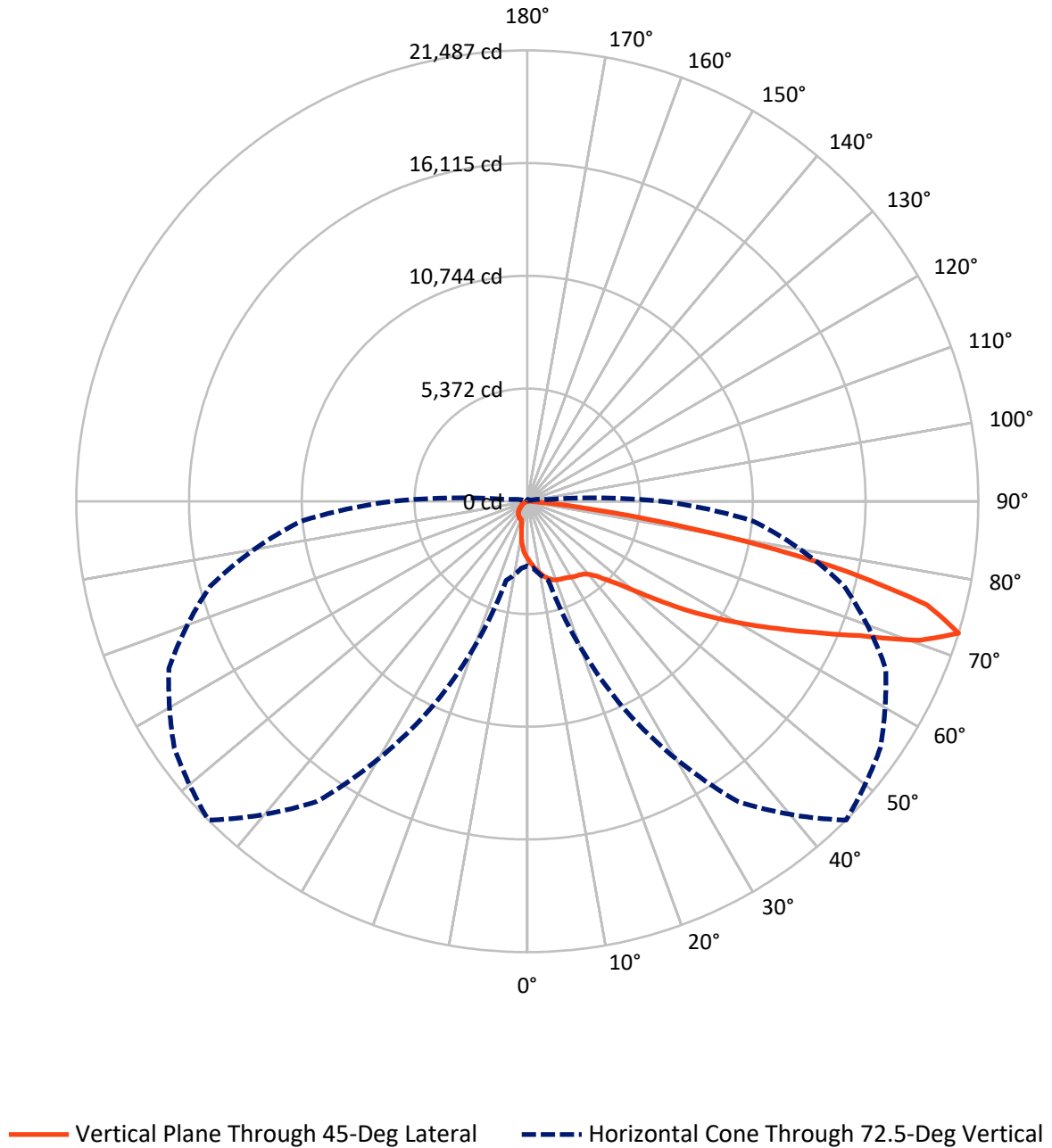
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	2623.9	0.0	2623.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	22348.1	0.0	22348.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	24972.0	0.0	24972.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.8	1.0
10°-20°	753.3	3.0
20°-30°	1237.1	5.0
30°-40°	1754.5	7.0
40°-50°	2900.0	11.6
50°-60°	5209.5	20.9
60°-70°	7233.6	29.0
70°-80°	5247.0	21.0
80°-90°	379.3	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°	24972.0	100.0
0°-180°	24972.0	100.0

Coefficient of Utilization



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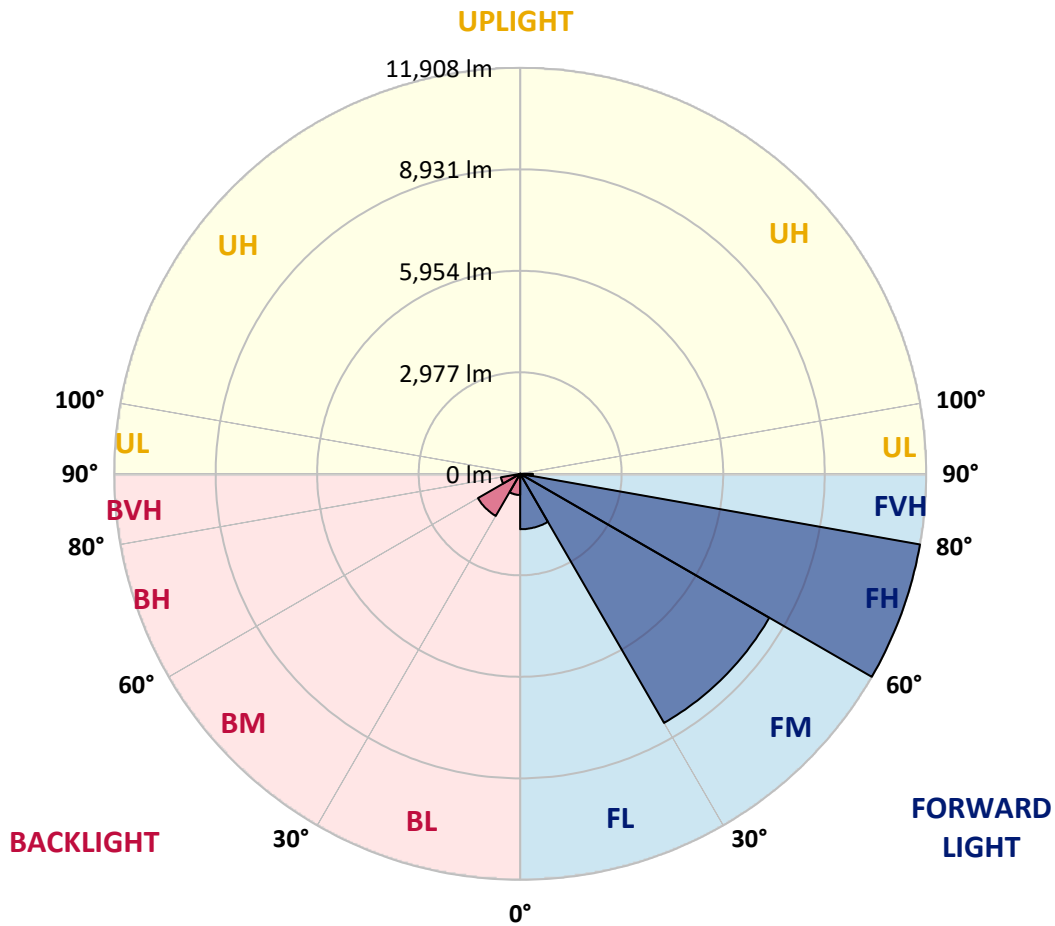
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1626.7	6.5			
FM (30°-60°)	8436.9	33.8			
FH (60°-80°)	11908.4	47.7			G4/12000
FVH (80°-90°)	376.2	1.5			G3/500
BL (0°-30°)	621.5	2.5	B2/1000		
BM (30°-60°)	1427.0	5.7	B2/2500		
BH (60°-80°)	572.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.2	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°	2735.7	2735.7	2735.7	2735.7	2735.7	2735.7	2735.7	2735.7	2735.7	2735.7
2.5°	2988.0	2993.1	2989.7	2969.3	2935.2	2916.4	2906.2	2872.1	2849.9	2810.7
5°	3262.4	3282.9	3271.0	3230.0	3165.3	3119.3	3105.6	3035.7	2972.7	2899.4
7.5°	3553.9	3564.1	3542.0	3489.1	3402.2	3323.8	3311.9	3214.7	3114.1	3001.6
10°	3806.2	3818.1	3784.0	3707.3	3608.4	3511.3	3494.2	3386.9	3267.5	3129.5
12.5°	4017.5	4029.5	3985.1	3893.1	3784.0	3683.4	3666.4	3553.9	3422.7	3269.2
15°	4177.7	4199.9	4140.3	4041.4	3923.8	3823.2	3814.7	3703.9	3576.1	3405.6
17.5°	4271.5	4293.7	4237.4	4118.1	4017.5	3932.3	3922.1	3830.0	3710.7	3547.1
20°	4286.8	4307.3	4247.6	4143.7	4060.1	3992.0	3986.8	3920.4	3833.4	3676.6
22.5°	4240.8	4266.4	4211.8	4128.3	4070.4	4034.6	4027.8	3990.3	3940.8	3807.9
25°	4193.1	4213.5	4172.6	4099.3	4068.7	4065.3	4070.4	4063.5	4053.3	3940.8
27.5°	4189.7	4211.8	4165.8	4095.9	4078.9	4114.7	4119.8	4152.2	4160.7	4061.8
30°	4218.7	4234.0	4189.7	4116.4	4107.9	4189.7	4191.4	4249.3	4263.0	4164.1
32.5°	4281.7	4298.8	4254.5	4147.1	4135.1	4249.3	4254.5	4331.2	4353.3	4273.2
35°	4430.0	4450.5	4399.3	4232.3	4189.7	4305.6	4320.9	4411.3	4455.6	4389.1
37.5°	4799.9	4740.2	4670.4	4404.4	4314.1	4394.2	4419.8	4525.5	4603.9	4527.2
40°	5718.6	5531.1	5313.0	4697.6	4532.3	4583.4	4603.9	4709.6	4816.9	4741.9
42.5°	7097.6	6876.0	6524.9	5372.6	4861.3	4886.8	4902.2	4994.2	5145.9	5086.3
45°	8326.5	8246.4	7888.5	6524.9	5476.6	5350.5	5369.2	5416.9	5640.2	5618.1
47.5°	9270.8	9224.8	8948.7	7847.6	6516.3	5918.1	5970.9	5993.1	6315.2	6393.6
50°	9996.9	9979.9	9732.7	9023.7	7874.8	6755.0	6773.7	6726.0	7208.4	7402.7
52.5°	10682.2	10740.1	10557.7	10116.3	9325.4	7851.0	7847.6	7622.6	8273.7	8566.9
55°	11300.9	11321.3	11340.1	11231.0	10784.4	9098.7	9066.3	8698.1	9509.5	9812.9
57.5°	11882.1	11890.6	12057.7	12281.0	12303.1	10438.4	10378.8	9937.3	10859.4	11075.9
60°	12272.5	12311.7	12664.5	13284.9	13556.0	11820.8	11788.4	11338.4	12233.3	12333.8
62.5°	11710.0	11948.6	12838.4	14069.0	14738.9	13353.1	13337.8	12915.1	13678.7	13596.9
65°	9478.8	9882.7	11447.5	14599.1	15899.7	15064.4	15086.6	14636.6	15163.3	14897.4
67.5°	6630.5	7056.7	8907.8	14641.7	17196.8	17074.1	17201.9	16496.2	16740.0	16143.4
70°	4585.1	4805.0	6010.1	13724.7	18207.6	19842.2	19838.8	18780.3	18308.1	16711.0
72.5°	3083.5	3197.7	3903.3	10888.4	17464.4	21487.0	21388.2	20525.7	18836.5	15628.6
75°	1300.5	1384.1	1806.8	6119.2	13816.7	19658.1	19390.5	18139.4	16736.6	12306.5
77.5°	412.5	448.3	712.5	2190.3	7610.6	14776.4	14493.4	11328.2	11217.4	6173.7
80°	196.0	228.4	400.6	879.5	2994.8	8036.8	7997.6	5139.1	4825.5	1667.0
82.5°	85.2	100.6	221.6	470.4	1339.7	2867.0	2924.9	1748.8	1447.1	632.4
85°	27.3	35.8	102.3	216.5	565.9	712.5	704.0	415.9	582.9	344.3
87.5°	0.0	0.0	34.1	49.4	58.0	40.9	46.0	35.8	161.9	95.5
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°
2735.7	0°	2735.7	2735.7	2735.7	2735.7	2735.7	2735.7	2735.7	2735.7	2735.7	2735.7
2769.8	2.5°	2749.4	2722.1	2674.4	2630.1	2590.9	2551.6	2527.8	2493.7	2490.3	2490.3
2814.1	5°	2768.1	2723.8	2638.6	2548.2	2444.3	2345.4	2246.5	2151.1	2120.4	2098.2
2885.7	7.5°	2822.7	2752.8	2618.1	2446.0	2248.2	2031.8	1880.1	1716.4	1653.4	1619.3
2981.2	10°	2901.1	2805.6	2601.1	2299.4	1978.9	1684.1	1467.6	1290.3	1222.1	1193.2
3085.2	12.5°	2988.0	2870.4	2570.4	2117.0	1684.1	1331.2	1119.9	1038.0	1027.8	1027.8
3209.6	15°	3092.0	2948.8	2517.6	1902.2	1375.5	1053.4	978.4	981.8	992.0	998.8
3330.6	17.5°	3199.4	3032.3	2434.0	1661.9	1102.8	947.7	949.4	954.5	963.0	969.9
3461.9	20°	3315.3	3115.8	2323.2	1406.2	946.0	917.0	922.1	927.3	934.1	937.5
3584.6	22.5°	3439.7	3194.2	2192.0	1155.7	893.2	891.5	893.2	898.3	906.8	906.8
3727.8	25°	3572.6	3281.2	2042.0	973.3	865.9	865.9	869.3	872.7	879.5	879.5
3865.8	27.5°	3709.0	3361.3	1883.5	877.8	842.0	840.3	840.3	845.4	848.8	850.5
4002.2	30°	3859.0	3455.0	1725.0	857.4	823.3	814.8	809.6	813.1	816.5	818.2
4145.4	32.5°	4012.4	3545.4	1583.5	865.9	804.5	789.2	772.1	768.7	768.7	775.6
4293.7	35°	4182.9	3644.2	1474.4	894.9	794.3	751.7	724.4	709.1	710.8	721.0
4470.9	37.5°	4387.4	3763.6	1394.3	920.4	787.5	709.1	664.8	646.0	634.1	646.0
4714.7	40°	4655.0	3939.1	1336.3	940.9	779.0	659.6	600.0	569.3	547.1	554.0
5093.1	42.5°	5048.8	4215.2	1314.2	942.6	760.2	601.7	533.5	492.6	460.2	461.9
5662.4	45°	5601.0	4651.6	1428.4	920.4	719.3	538.6	463.6	409.1	388.6	383.5
6512.9	47.5°	6357.8	5287.4	1692.6	874.4	659.6	477.3	395.4	349.4	334.1	325.6
7629.4	50°	7372.0	6103.8	1985.8	823.3	600.0	419.3	339.2	310.2	300.0	291.5
8953.8	52.5°	8548.1	6932.2	2226.1	772.1	540.3	368.2	303.4	286.4	277.8	271.0
10232.2	55°	9627.1	7503.2	2212.5	717.6	482.4	327.3	277.8	267.6	257.4	250.6
11333.3	57.5°	10298.6	7583.4	1823.8	657.9	415.9	294.9	254.0	247.2	235.2	226.7
12286.1	60°	10607.2	7126.5	1278.4	579.5	349.4	264.2	228.4	225.0	209.7	197.7
13187.8	62.5°	10663.4	6277.7	852.3	482.4	291.5	235.2	202.8	197.7	177.3	156.8
13920.7	65°	10435.0	5064.1	589.8	376.7	248.9	204.5	173.9	163.6	141.5	121.0
14094.6	67.5°	9712.3	3555.6	410.8	271.0	211.4	161.9	138.1	134.7	117.6	100.6
13208.2	70°	8387.9	2026.7	274.4	202.8	167.0	110.8	109.1	112.5	95.5	81.8
10791.2	72.5°	6431.1	927.3	170.5	148.3	114.2	75.0	86.9	88.6	73.3	61.4
6732.8	75°	3785.7	397.2	107.4	95.5	58.0	49.4	63.1	64.8	49.4	39.2
2461.3	77.5°	1288.6	150.0	68.2	56.2	29.0	27.3	40.9	40.9	27.3	15.3
494.3	80°	293.2	56.2	34.1	22.2	13.6	11.9	13.6	11.9	6.8	1.7
151.7	82.5°	83.5	22.2	13.6	8.5	5.1	5.1	1.7	0.0	0.0	0.0
52.8	85°	23.9	10.2	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0
18.7	87.5°	10.2	1.7	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>
2735.7
2498.8
2108.5
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1027.8
998.8
969.9
939.2
910.2
881.2
852.3
821.6
780.7
726.1
642.6
550.6
455.1
376.7
320.4
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269.3
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225.0
194.3
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