

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: P942862

Luminaire Tested: **GALN-SB7A-827-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942862  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7A-827-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

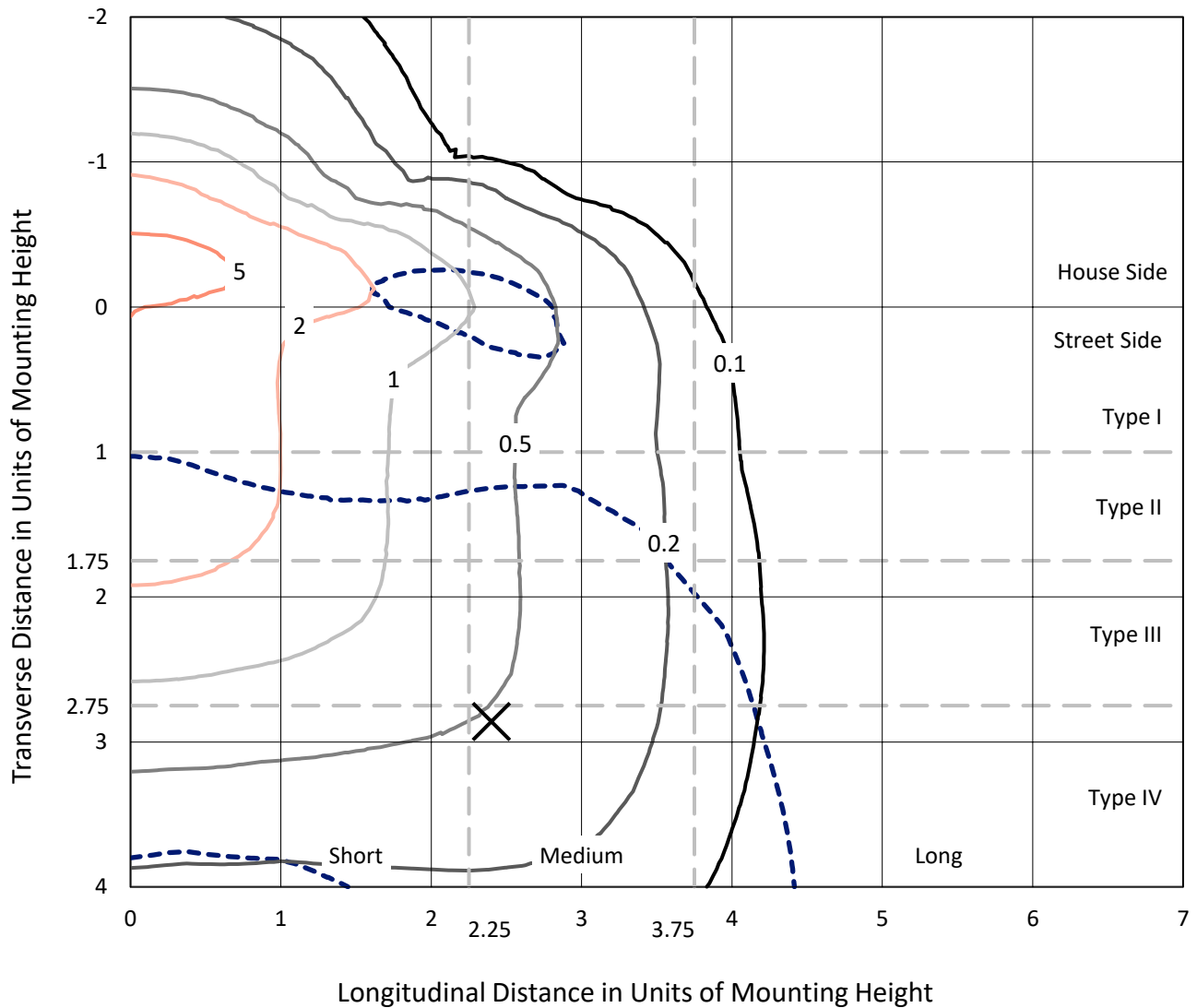
Lumens per Lamp: N/A  
Luminaire Lumens: 27498 lumens  
Efficiency: N/A  
Efficacy: 138.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): 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

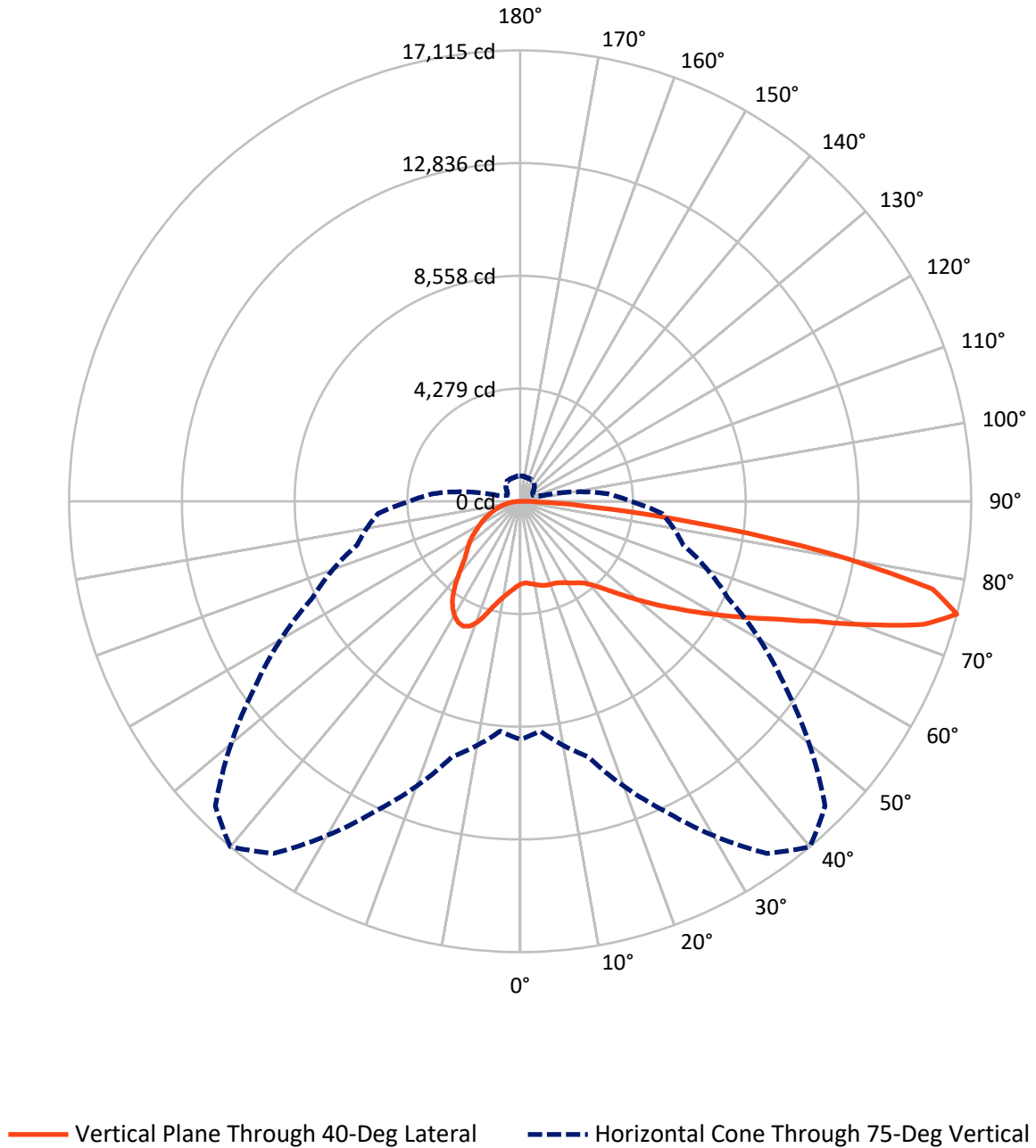
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8519.8	0.0	8519.8
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	18978.2	0.0	18978.2
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	27498.0	0.0	27498.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	313.9	1.1
10°-20°	1053.8	3.8
20°-30°	1924.2	7.0
30°-40°	2729.0	9.9
40°-50°	3685.0	13.4
50°-60°	4957.3	18.0
60°-70°	6292.0	22.9
70°-80°	5710.4	20.8
80°-90°	832.4	3.0
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°	27498.0	100.0
0°-180°	27498.0	100.0

**Coefficient of Utilization**



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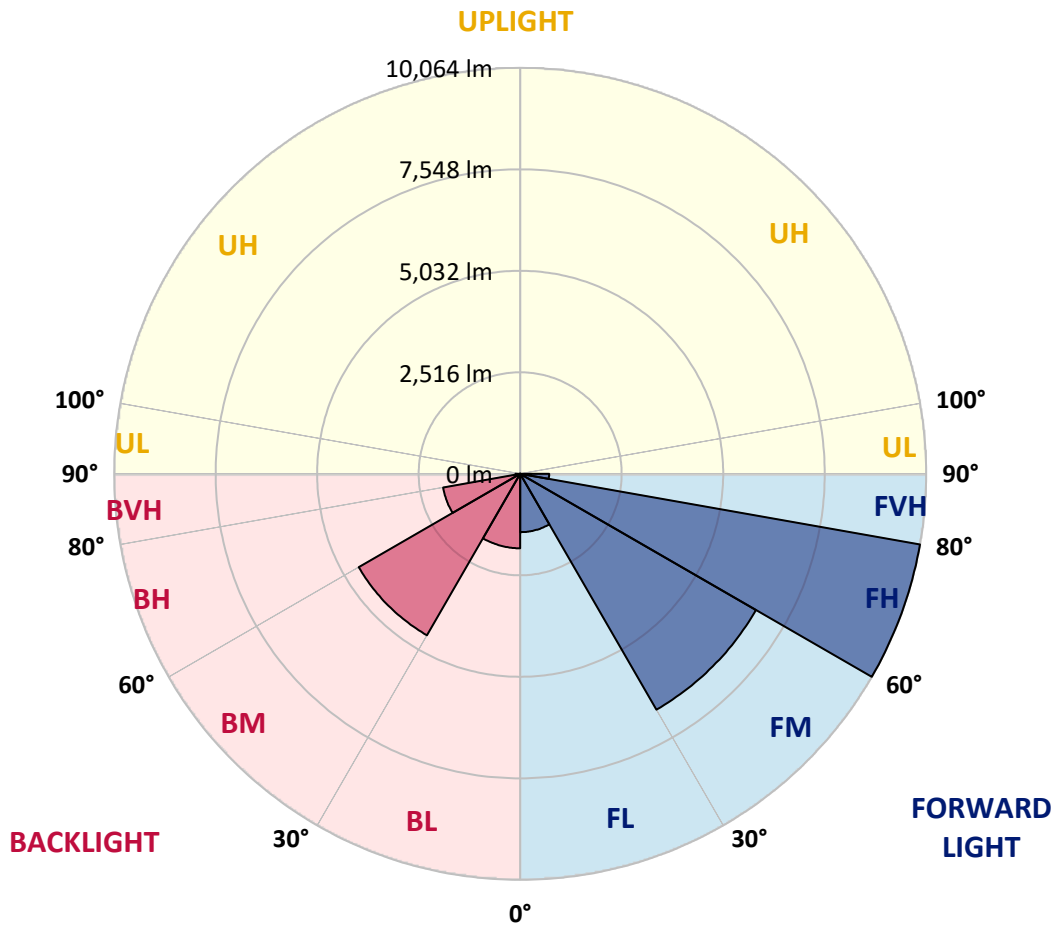
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1446.4	5.3			
FM (30°-60°)	6750.1	24.5			
FH (60°-80°)	10063.8	36.6			G4/12000
FVH (80°-90°)	717.8	2.6			G4/750
BL (0°-30°)	1845.5	6.7	B3/2500		
BM (30°-60°)	4621.2	16.8	B3/5000		
BH (60°-80°)	1938.5	7.0	B3/2500		G3/2500
BVH (80°-90°)	114.6	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	3144.4	3144.4	3144.4	3144.4	3144.4	3144.4	3144.4	3144.4	3144.4	3144.4
2.5°	3096.3	3113.8	3109.4	3103.6	3103.6	3105.1	3103.6	3113.8	3124.0	3134.2
5°	3128.4	3145.9	3137.1	3129.8	3124.0	3122.6	3118.2	3116.7	3122.6	3135.7
7.5°	3191.1	3208.6	3195.5	3182.4	3170.7	3164.9	3159.0	3150.3	3145.9	3153.2
10°	3261.1	3278.6	3262.6	3239.2	3220.3	3213.0	3207.1	3198.4	3192.6	3196.9
12.5°	3331.1	3348.6	3326.7	3294.7	3269.9	3265.5	3258.2	3255.3	3253.8	3252.4
15°	3396.7	3411.3	3383.6	3345.7	3319.4	3312.2	3304.9	3309.2	3316.5	3325.3
17.5°	3447.8	3462.4	3421.5	3372.0	3347.2	3344.2	3339.9	3354.5	3374.9	3396.7
20°	3494.5	3509.0	3456.5	3389.5	3360.3	3360.3	3361.7	3392.4	3421.5	3453.6
22.5°	3560.1	3571.8	3507.6	3415.7	3373.4	3376.3	3388.0	3418.6	3455.1	3498.8
25°	3657.8	3666.6	3587.8	3465.3	3417.2	3425.9	3436.1	3450.7	3485.7	3536.8
27.5°	3815.3	3822.6	3719.1	3552.8	3479.9	3494.5	3509.0	3498.8	3514.9	3558.6
30°	4037.0	4041.4	3910.1	3689.9	3586.3	3593.6	3596.6	3554.3	3523.6	3558.6
32.5°	4299.5	4298.1	4142.0	3856.2	3707.4	3700.1	3675.3	3592.2	3520.7	3551.3
35°	4706.4	4690.4	4489.1	4089.5	3844.5	3799.3	3740.9	3634.5	3535.3	3544.1
37.5°	5380.2	5330.7	5052.1	4471.6	4048.7	3933.5	3847.4	3703.0	3567.4	3541.1
40°	6140.1	6077.4	5771.1	4995.2	4355.0	4169.7	4031.2	3800.7	3619.9	3554.3
42.5°	7041.4	6952.5	6622.9	5612.1	4742.9	4474.5	4266.0	3924.7	3697.2	3596.6
45°	8148.4	8030.3	7563.6	6307.8	5231.5	4874.2	4595.6	4112.8	3815.3	3678.2
47.5°	9267.0	9296.2	8632.6	7104.1	5817.8	5367.1	5008.3	4395.8	3987.4	3809.5
50°	10455.7	10476.1	9695.8	7986.5	6482.8	5924.3	5472.1	4712.3	4226.6	3996.2
52.5°	11383.3	11386.2	10661.3	8909.7	7175.6	6536.8	5972.4	5074.0	4503.7	4244.1
55°	11963.7	11956.4	11338.0	9783.3	7971.9	7180.0	6526.6	5485.3	4842.1	4535.8
57.5°	12385.2	12363.3	11804.7	10534.4	8820.7	7939.8	7153.7	5952.0	5241.7	4882.9
60°	12545.6	12532.5	12121.2	11183.4	9713.3	8779.9	7877.1	6474.1	5695.3	5292.7
62.5°	12606.9	12631.7	12431.9	11812.0	10668.6	9710.4	8672.0	7098.3	6205.7	5756.5
65°	12822.8	12868.0	12827.1	12634.6	11747.9	10799.9	9726.4	7840.7	6762.9	6253.9
67.5°	13250.1	13295.3	13312.8	13619.1	13066.3	12157.7	11042.0	8765.3	7414.8	6770.2
70°	13239.9	13226.7	13535.9	14402.3	14717.3	14037.6	12815.5	9902.9	8192.2	7198.9
72.5°	12051.2	11946.2	12676.9	14393.5	16091.2	16000.7	14981.3	11370.1	8863.0	7251.4
75°	9041.0	8761.0	10051.7	12971.5	16320.1	17115.0	16358.1	12280.2	8704.1	6407.0
77.5°	3866.4	3584.9	5106.1	9602.5	14606.4	15999.3	15095.0	10713.8	6948.1	4236.8
80°	1012.2	1010.7	1543.0	4353.5	9933.5	11815.0	10365.3	6918.9	3969.9	1513.9
82.5°	418.6	408.4	567.3	1693.3	4853.7	6630.1	5410.9	3086.1	1433.7	409.8
85°	156.1	154.6	275.6	584.8	1712.2	2734.6	1979.1	789.0	357.3	199.8
87.5°	43.8	42.3	59.8	202.7	417.1	633.0	338.4	129.8	100.6	78.8
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°
3144.4	0°	3144.4	3144.4	3144.4	3144.4	3144.4	3144.4	3144.4	3144.4	3144.4	3144.4
3150.3	2.5°	3154.6	3161.9	3175.1	3185.3	3198.4	3213.0	3233.4	3246.5	3259.7	3268.4
3157.6	5°	3167.8	3183.8	3217.4	3250.9	3290.3	3326.7	3369.0	3399.7	3424.5	3431.7
3183.8	7.5°	3196.9	3223.2	3280.1	3336.9	3399.7	3459.5	3520.7	3573.2	3615.5	3631.6
3230.5	10°	3248.0	3283.0	3363.2	3443.4	3526.5	3618.4	3697.2	3773.0	3832.8	3857.6
3285.9	12.5°	3312.2	3355.9	3460.9	3571.8	3687.0	3813.9	3916.0	4009.3	4083.7	4117.2
3363.2	15°	3395.3	3452.2	3586.3	3735.1	3904.3	4080.8	4210.6	4314.1	4397.2	4438.1
3443.4	17.5°	3485.7	3561.6	3730.7	3955.3	4197.4	4429.3	4581.0	4656.9	4742.9	4782.3
3517.8	20°	3573.2	3666.6	3908.7	4235.4	4557.7	4804.2	4926.7	4947.1	4952.9	4957.3
3587.8	22.5°	3663.6	3789.1	4131.8	4588.3	4934.0	5104.6	5122.1	5034.6	4912.1	4855.2
3656.4	25°	3762.8	3929.1	4423.5	4977.7	5257.7	5278.2	5144.0	4931.0	4699.1	4592.7
3711.8	27.5°	3859.1	4091.0	4773.5	5349.6	5491.1	5311.7	5022.9	4721.0	4441.0	4328.7
3751.2	30°	3955.3	4276.2	5160.0	5674.9	5597.6	5228.6	4831.9	4495.0	4213.5	4095.3
3786.2	32.5°	4053.1	4492.0	5604.8	5909.7	5578.6	5052.1	4594.1	4241.2	3993.3	3869.3
3816.8	35°	4163.9	4757.5	6026.3	6038.0	5451.7	4792.5	4280.6	3937.8	3722.0	3622.8
3853.2	37.5°	4308.3	5094.4	6398.3	6070.1	5230.0	4411.8	3891.2	3579.1	3401.1	3355.9
3907.2	40°	4487.7	5499.8	6682.6	6019.1	4901.9	3949.5	3465.3	3215.9	3115.3	3125.5
3980.1	42.5°	4721.0	5953.4	6882.5	5887.8	4445.4	3472.6	3091.9	2981.1	3029.2	3070.1
4089.5	45°	5024.4	6424.5	7006.4	5664.6	3929.1	3068.6	2871.7	2898.0	2934.4	2938.8
4266.0	47.5°	5412.3	6901.4	7088.1	5327.7	3402.6	2784.2	2731.7	2737.5	2730.2	2699.6
4530.0	50°	5896.5	7365.2	7161.0	4881.5	2954.8	2606.3	2536.3	2515.8	2415.2	2316.0
4881.5	52.5°	6447.8	7791.1	7191.7	4327.2	2606.3	2457.5	2343.7	2215.4	2027.3	1996.6
5323.4	55°	7060.4	8184.9	7112.9	3646.1	2313.1	2266.4	2094.3	1939.7	1919.3	1893.1
5905.3	57.5°	7792.5	8609.3	6952.5	2886.3	2012.7	2043.3	1875.6	1893.1	1856.6	1815.8
6653.5	60°	8593.2	9048.3	6671.0	2193.5	1702.0	1764.7	1818.7	1817.2	1807.0	1773.5
7442.5	62.5°	9313.7	9337.0	6116.8	1680.1	1429.3	1548.9	1696.2	1694.7	1686.0	1667.0
8266.5	65°	9742.5	9293.3	5192.1	1322.8	1204.7	1370.9	1529.9	1541.6	1543.0	1541.6
8886.4	67.5°	9666.7	8781.4	3923.2	1053.0	1019.5	1190.1	1365.1	1381.2	1392.8	1395.7
8965.1	70°	8809.1	7656.9	2558.1	840.1	854.7	1031.1	1209.1	1225.1	1235.3	1247.0
7779.4	72.5°	6866.4	5629.6	1464.3	679.6	710.3	894.0	1054.5	1073.4	1079.3	1101.1
5413.8	75°	4184.3	3310.7	790.5	535.3	583.4	764.2	901.3	923.2	933.4	959.7
2658.8	77.5°	1989.3	1433.7	450.7	417.1	469.6	624.2	761.3	786.1	758.4	773.0
733.6	80°	672.3	532.3	284.4	317.9	358.8	487.1	609.6	634.4	576.1	573.2
243.6	82.5°	234.8	215.9	180.8	211.5	231.9	348.6	460.9	493.0	428.8	427.3
109.4	85°	91.9	87.5	100.6	115.2	138.6	214.4	303.4	319.4	264.0	212.9
32.1	87.5°	19.0	20.4	24.8	26.3	42.3	74.4	109.4	134.2	106.5	90.4
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>
3144.4
3262.6
3434.7
3633.0
3859.1
4117.2
4435.2
4780.8
4969.0
4871.2
4608.7
4341.8
4108.5
3885.3
3644.7
3388.0
3160.5
3108.0
2968.0
2722.9
2329.2
2006.8
1897.5
1808.5
1761.8
1659.7
1541.6
1398.7
1252.8
1109.9
962.6
761.3
567.3
406.9
210.0
83.1
0.0

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