

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: P948920

Luminaire Tested: **GALN-SB3D-827-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948920
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
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-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26905 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

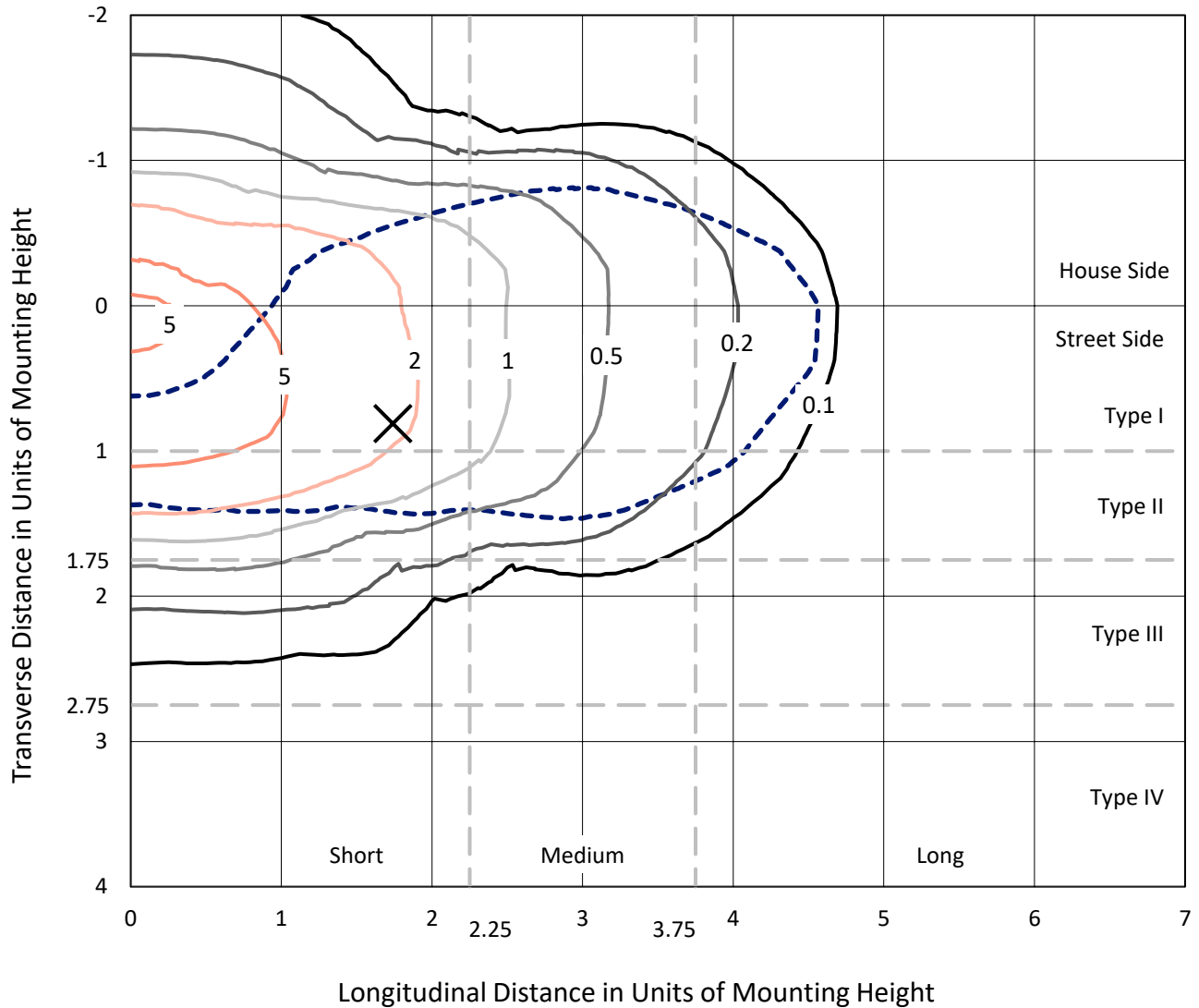
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

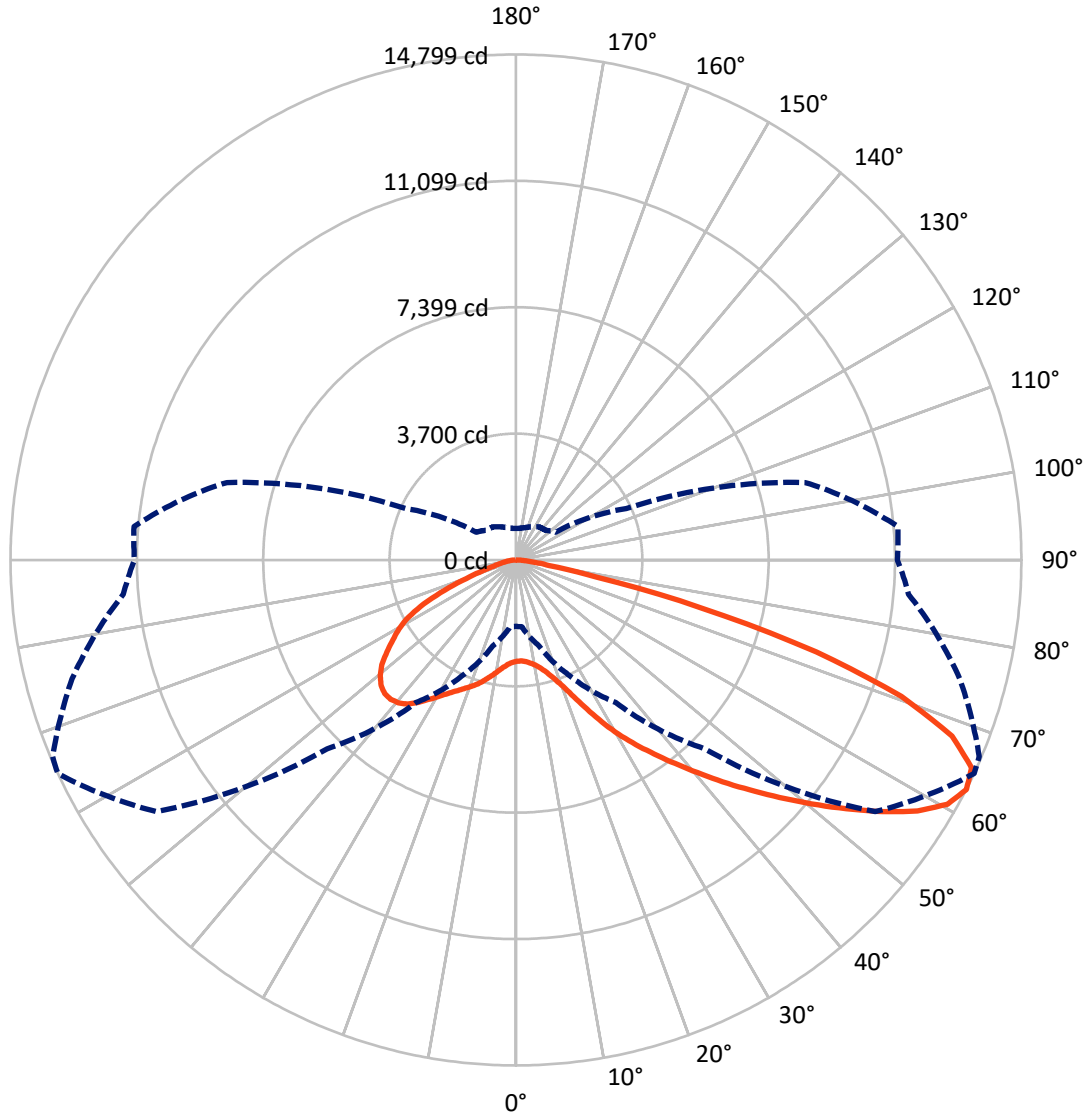
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8490.0	0.0	8490.0
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	18414.9	0.0	18414.9
	% Fixture	68.4	0.0	68.4
Total	Lumens	26905.0	0.0	26905.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.6	1.1
10°-20°	1002.4	3.7
20°-30°	2032.4	7.6
30°-40°	3517.0	13.1
40°-50°	5322.4	19.8
50°-60°	6240.1	23.2
60°-70°	5231.6	19.4
70°-80°	2888.3	10.7
80°-90°	375.2	1.4
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°	26905.0	100.0
0°-180°	26905.0	100.0

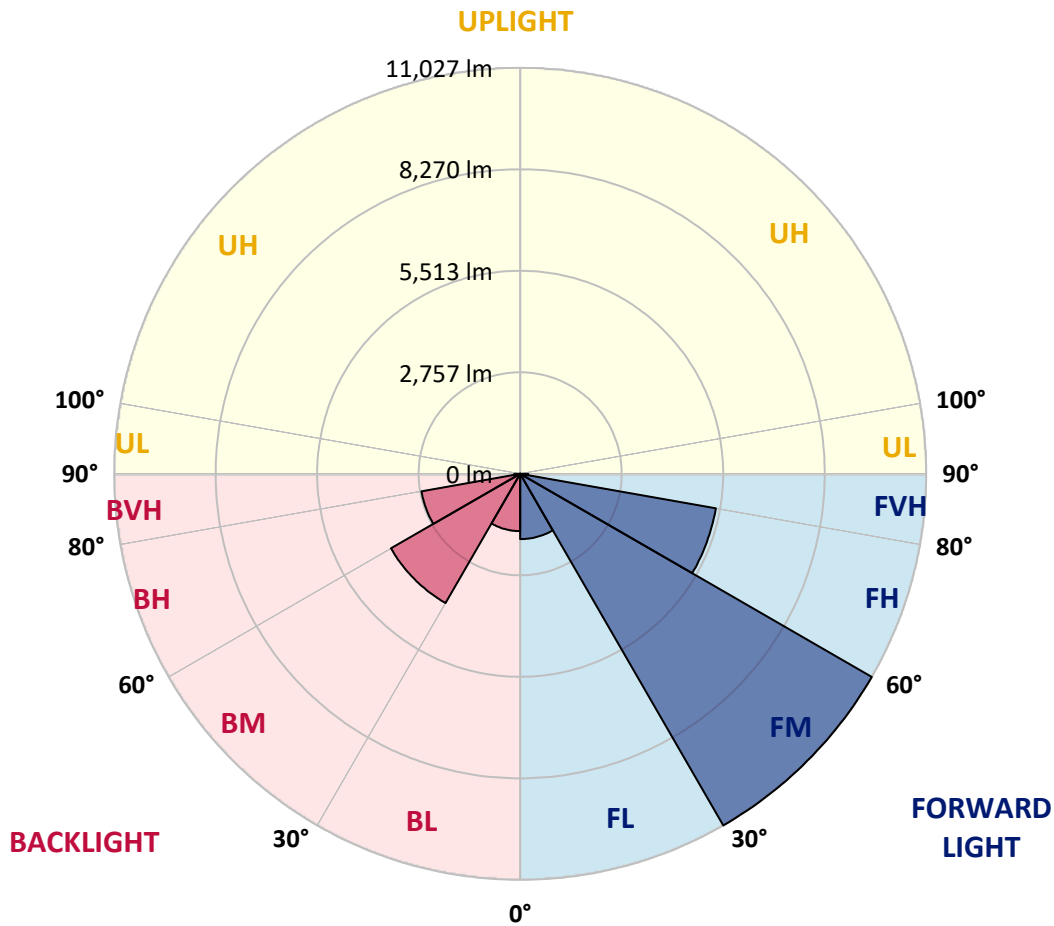


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1773.4	6.6			
FM (30°-60°)	11026.5	41.0			
FH (60°-80°)	5396.4	20.1			G3/7500
FVH (80°-90°)	218.7	0.8			G2/225
BL (0°-30°)	1557.0	5.8	B3/2500		
BM (30°-60°)	4053.0	15.1	B3/5000		
BH (60°-80°)	2723.5	10.1	B4/5000		G4/5000
BVH (80°-90°)	156.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	2964.8	2964.8	2964.8	2964.8	2964.8	2964.8	2964.8	2964.8	2964.8	2964.8
2.5°	2945.3	2936.9	2943.9	2943.9	2946.7	2945.3	2955.0	2957.8	2962.0	2970.4
5°	2916.0	2914.6	2927.1	2938.3	2949.5	2959.2	2971.8	2989.9	2992.7	3002.5
7.5°	2906.2	2897.8	2917.4	2931.3	2957.8	2981.6	3015.1	3045.8	3058.3	3062.5
10°	2981.6	2967.6	2985.8	2994.1	3016.5	3040.2	3079.3	3128.1	3142.1	3158.8
12.5°	3110.0	3094.6	3121.2	3133.7	3154.7	3175.6	3202.1	3249.6	3256.5	3287.3
15°	3285.9	3267.7	3284.5	3299.8	3334.7	3354.3	3380.8	3426.8	3426.8	3450.6
17.5°	3524.6	3500.8	3513.4	3519.0	3541.3	3570.6	3615.3	3655.8	3676.7	3668.3
20°	3880.5	3851.2	3851.2	3823.3	3814.9	3838.6	3897.3	3953.1	3975.4	3932.1
22.5°	4415.1	4373.2	4349.5	4254.6	4216.9	4219.7	4278.3	4346.7	4364.9	4288.1
25°	5094.9	5029.3	4997.2	4857.6	4772.5	4698.5	4744.5	4832.5	4857.6	4762.7
27.5°	5774.7	5778.9	5748.2	5580.7	5439.7	5304.3	5280.6	5372.7	5399.2	5291.7
30°	6728.1	6629.0	6570.3	6369.3	6168.3	5978.5	5880.8	5918.5	5925.4	5797.0
32.5°	7550.2	7525.1	7399.5	7223.6	6965.4	6668.0	6504.7	6444.7	6433.5	6250.7
35°	8486.9	8472.9	8340.3	8130.9	7851.7	7438.6	7144.0	6972.3	6958.4	6701.5
37.5°	9438.8	9438.8	9309.0	9080.1	8791.1	8274.7	7826.6	7554.4	7509.7	7174.7
40°	10198.2	10152.1	10175.8	10079.5	9748.7	9200.1	8584.6	8189.5	8129.5	7727.5
42.5°	10629.5	10614.1	10756.5	10864.0	10728.6	10290.3	9419.3	8877.7	8793.9	8336.1
45°	10725.8	10709.1	10963.1	11356.7	11546.6	11366.5	10326.6	9602.1	9500.2	8972.6
47.5°	10503.9	10470.4	10843.1	11464.2	12072.8	12389.7	11309.3	10388.0	10240.1	9592.4
50°	9836.7	9804.5	10368.5	11193.4	12250.1	13084.8	12375.7	11221.3	10995.2	10256.8
52.5°	8386.3	8401.7	9285.3	10418.7	12017.0	13517.5	13294.2	12099.3	11827.2	10936.6
55°	6532.6	6566.1	7652.1	8900.0	11084.6	13451.9	13920.9	13003.9	12733.1	11575.9
57.5°	4677.5	4825.5	5843.1	7078.4	9293.7	12412.0	14057.7	13863.7	13601.3	12273.8
60°	3031.8	3058.3	4105.2	5350.3	7077.0	10563.9	13780.0	14515.6	14310.4	12985.7
62.5°	1943.0	1961.2	2599.1	3742.3	5093.5	7815.4	12844.7	14798.9	14736.1	13456.1
65°	1428.0	1414.0	1746.2	2473.5	3431.0	4819.9	11028.7	14662.2	14786.4	13750.7
67.5°	1192.1	1172.5	1335.8	1712.7	2527.9	2737.3	8160.2	13773.0	14228.0	13717.2
70°	1086.0	1069.2	1168.3	1271.6	1972.4	1832.8	4113.6	11973.7	12674.4	13336.1
72.5°	919.9	890.6	1026.0	1129.3	1534.1	1405.6	1700.2	9197.3	10051.6	12114.7
75°	713.3	693.7	809.6	993.9	1153.0	1097.1	1074.8	5584.9	6517.3	9369.0
77.5°	565.3	538.8	644.9	774.7	1037.1	827.7	783.1	2405.1	3329.1	5981.3
80°	425.7	402.0	489.9	612.8	797.0	624.0	506.7	981.3	1254.9	3030.4
82.5°	302.9	282.0	342.0	449.5	536.0	559.7	311.3	550.0	618.4	1168.3
85°	194.0	181.5	228.9	282.0	340.6	360.1	189.8	287.5	315.5	481.6
87.5°	106.1	86.5	122.8	131.2	157.7	143.8	90.7	104.7	113.1	174.5
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°
2964.8	0°	2964.8	2964.8	2964.8	2964.8	2964.8	2964.8	2964.8	2964.8	2964.8	2964.8
2970.4	2.5°	2976.0	2980.2	2994.1	2998.3	3008.1	3020.6	3029.0	3037.4	3037.4	3045.8
3015.1	5°	3016.5	3026.2	3055.5	3070.9	3096.0	3121.2	3136.5	3154.7	3165.8	3171.4
3086.3	7.5°	3094.6	3110.0	3151.9	3178.4	3221.7	3256.5	3280.3	3305.4	3311.0	3326.3
3185.4	10°	3200.7	3218.9	3266.3	3316.6	3368.2	3411.5	3433.8	3452.0	3459.0	3461.7
3312.4	12.5°	3322.2	3348.7	3410.1	3471.5	3526.0	3563.6	3569.2	3565.0	3545.5	3528.7
3468.7	15°	3471.5	3495.2	3563.6	3630.6	3683.7	3690.7	3655.8	3633.4	3609.7	3605.5
3643.2	17.5°	3650.2	3662.7	3725.6	3791.2	3795.4	3771.6	3720.0	3699.0	3676.7	3661.4
3870.7	20°	3858.2	3854.0	3898.6	3926.6	3897.3	3824.7	3746.5	3711.6	3689.3	3671.1
4149.9	22.5°	4106.6	4074.5	4068.9	4062.0	3983.8	3831.6	3725.6	3680.9	3646.0	3620.9
4539.3	25°	4468.2	4345.3	4260.2	4212.7	4036.8	3794.0	3658.6	3559.5	3493.8	3450.6
5015.3	27.5°	4920.4	4713.8	4498.9	4383.0	4036.8	3717.2	3496.6	3336.1	3228.6	3184.0
5476.0	30°	5351.7	5135.4	4818.5	4588.2	4027.1	3591.6	3235.6	3012.3	2886.6	2842.0
5869.6	32.5°	5720.2	5484.3	5157.7	4812.9	4003.3	3387.8	2911.8	2664.7	2543.3	2490.2
6259.1	35°	6062.2	5811.0	5498.3	5060.0	3940.5	3089.0	2555.8	2367.4	2232.0	2146.8
6655.5	37.5°	6412.6	6113.9	5820.8	5283.3	3827.5	2740.1	2282.2	2121.7	1962.6	1848.1
7077.0	40°	6793.7	6436.3	6165.5	5416.0	3641.8	2407.9	2070.1	1923.5	1754.6	1633.2
7562.8	42.5°	7238.9	6823.0	6549.4	5484.3	3387.8	2172.0	1931.9	1788.1	1629.0	1529.9
8083.4	45°	7703.8	7248.7	6899.8	5483.0	3104.4	2061.7	1887.2	1744.8	1569.0	1465.7
8618.1	47.5°	8190.9	7694.0	7202.7	5393.6	2858.7	2077.0	1862.1	1651.3	1457.3	1356.8
9158.3	50°	8679.5	8181.2	7495.8	5226.1	2754.0	2043.5	1768.6	1520.1	1291.2	1200.4
9665.0	52.5°	9163.8	8699.0	7748.4	4987.4	2648.0	1919.3	1648.5	1349.8	1222.8	1160.0
10188.4	55°	9651.0	9211.3	8023.4	4639.9	2382.7	1774.1	1447.5	1285.6	1168.3	1111.1
10700.7	57.5°	10139.6	9803.2	8284.5	4292.3	2049.1	1595.5	1337.2	1207.4	1113.9	1065.0
11129.2	60°	10647.6	10480.1	8553.9	3972.6	1719.7	1366.6	1256.3	1144.6	1049.7	995.3
11541.0	62.5°	11171.1	11225.5	8764.6	3560.8	1416.8	1227.0	1183.7	1069.2	977.1	925.5
11881.6	65°	11698.7	11944.4	8902.8	2989.9	1148.8	1094.4	1105.5	986.9	893.4	848.7
12131.5	67.5°	12096.6	12462.3	8863.7	2262.7	942.2	968.7	1007.8	900.3	812.4	777.5
12091.0	70°	12141.2	12400.9	8478.5	1549.4	788.7	845.9	898.9	815.2	724.5	699.3
11521.5	72.5°	11546.6	11563.3	7405.1	1012.0	667.2	742.6	784.5	728.6	640.7	615.6
10079.5	75°	9987.4	9563.1	5436.9	667.2	558.3	637.9	677.0	637.9	552.8	558.3
7541.9	77.5°	7567.0	6772.7	3301.2	474.6	466.2	536.0	589.1	561.1	488.6	548.6
3792.6	80°	3898.6	3664.1	1472.6	354.5	368.5	428.5	484.4	448.1	386.7	368.5
847.3	82.5°	893.4	1038.5	580.7	254.0	266.6	308.5	369.9	336.4	277.8	234.5
353.2	85°	312.7	342.0	256.8	159.1	156.3	192.6	251.3	224.7	188.4	150.8
149.4	87.5°	99.1	129.8	96.3	64.2	67.0	86.5	115.9	106.1	87.9	57.2
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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180°
2964.8
3045.8
3174.2
3320.8
3454.8
3528.7
3605.5
3662.7
3672.5
3629.2
3467.3
3206.3
2868.5
2516.7
2174.8
1878.8
1656.9
1549.4
1482.4
1370.7
1206.0
1160.0
1105.5
1056.7
991.1
924.1
847.3
778.9
700.7
614.2
538.8
483.0
336.4
231.7
159.1
60.0
0.0

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