

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: P954086

Luminaire Tested: **GALN-SB7B-940-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954086
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-SB7B-940-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29408 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

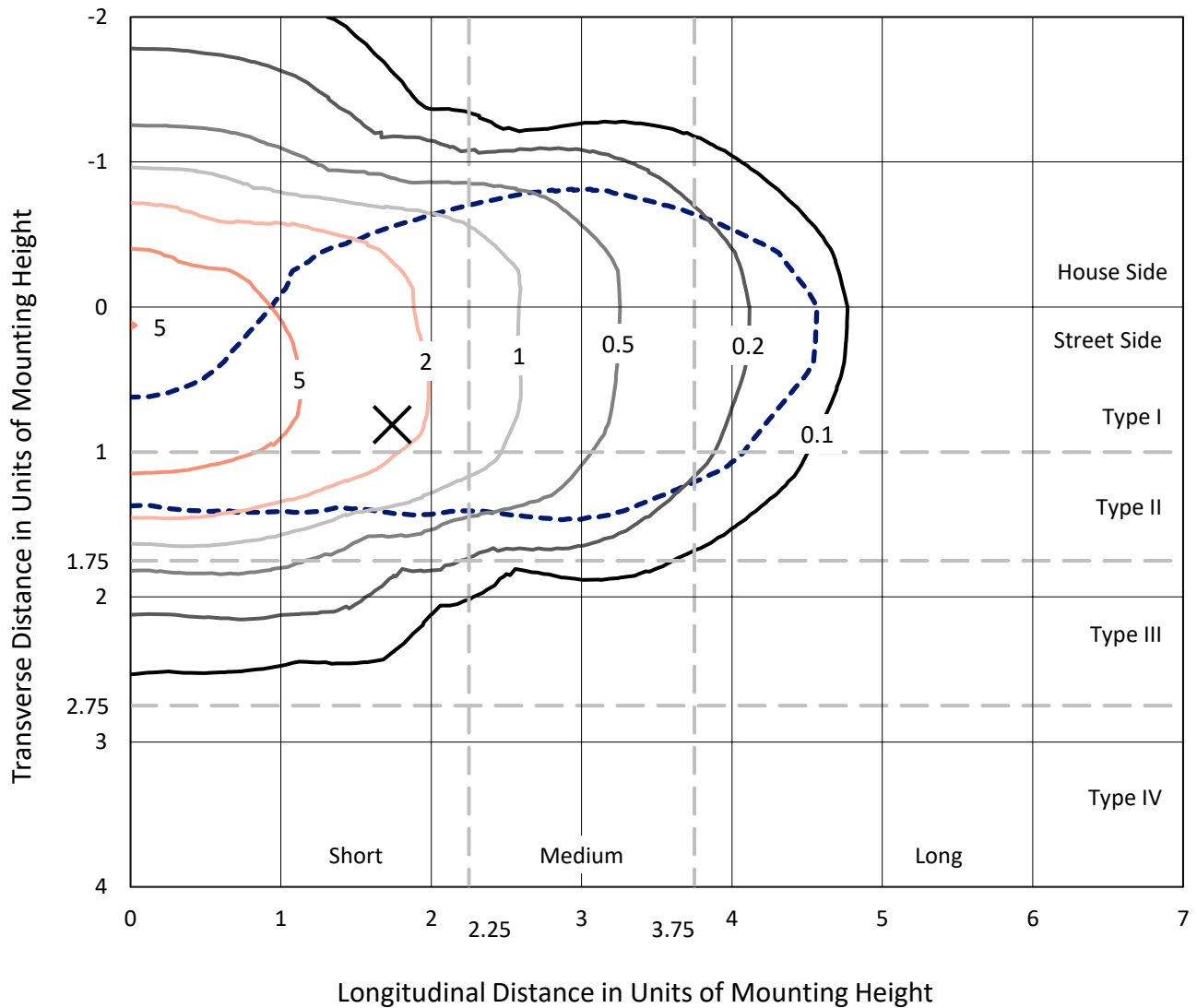
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

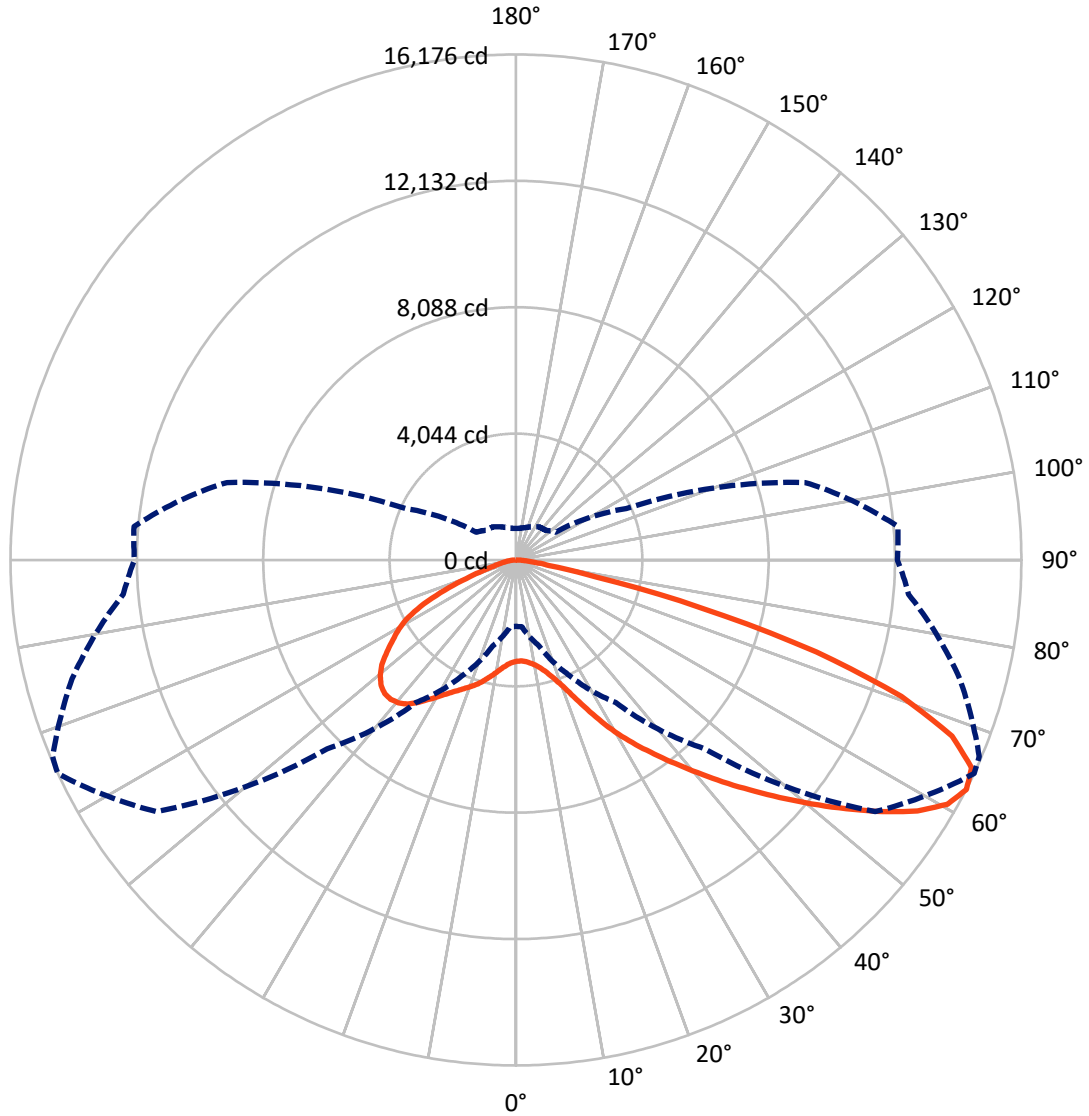
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	9279.9	0.0	9279.9
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	20128.1	0.0	20128.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	29408.0	0.0	29408.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.1	1.1
10°-20°	1095.6	3.7
20°-30°	2221.5	7.6
30°-40°	3844.2	13.1
40°-50°	5817.5	19.8
50°-60°	6820.7	23.2
60°-70°	5718.3	19.4
70°-80°	3157.0	10.7
80°-90°	410.1	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°	29408.0	100.0
0°-180°	29408.0	100.0

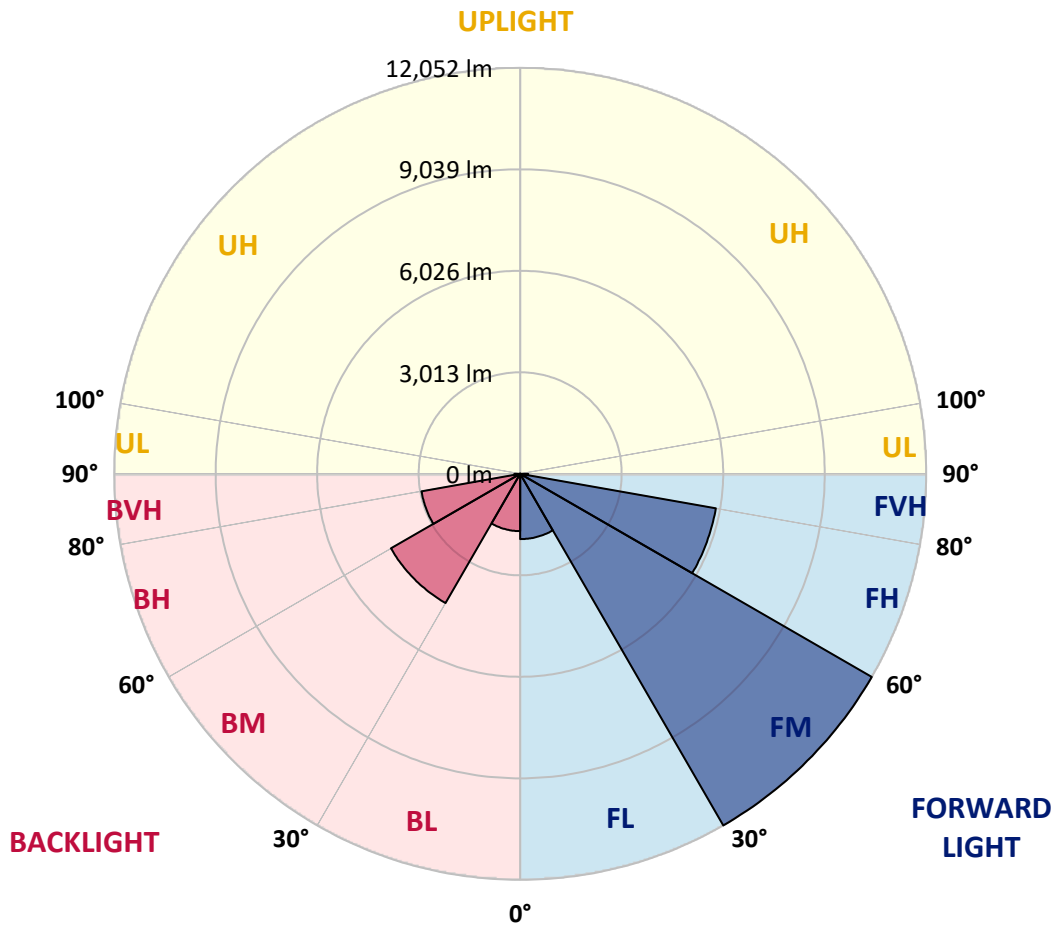


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1938.4	6.6			
FM (30°-60°)	12052.4	41.0			
FH (60°-80°)	5898.4	20.1			G3/7500
FVH (80°-90°)	239.0	0.8			G3/500
BL (0°-30°)	1701.8	5.8	B3/2500		
BM (30°-60°)	4430.1	15.1	B3/5000		
BH (60°-80°)	2976.9	10.1	B4/5000		G4/5000
BVH (80°-90°)	171.1	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°	3240.6	3240.6	3240.6	3240.6	3240.6	3240.6	3240.6	3240.6	3240.6	3240.6
2.5°	3219.3	3210.1	3217.7	3217.7	3220.8	3219.3	3230.0	3233.0	3237.6	3246.7
5°	3187.2	3185.7	3199.4	3211.6	3223.9	3234.5	3248.3	3268.1	3271.1	3281.8
7.5°	3176.6	3167.4	3188.8	3204.0	3233.0	3258.9	3295.6	3329.1	3342.9	3347.4
10°	3258.9	3243.7	3263.5	3272.7	3297.1	3323.0	3365.7	3419.1	3434.4	3452.7
12.5°	3399.3	3382.5	3411.5	3425.2	3448.1	3471.0	3500.0	3551.9	3559.5	3593.1
15°	3591.6	3571.7	3590.0	3606.8	3645.0	3666.3	3695.3	3745.6	3745.6	3771.6
17.5°	3852.4	3826.5	3840.2	3846.3	3870.8	3902.8	3951.6	3995.9	4018.8	4009.6
20°	4241.5	4209.5	4209.5	4179.0	4169.8	4195.7	4259.8	4320.8	4345.3	4298.0
22.5°	4825.9	4780.1	4754.2	4650.4	4609.2	4612.3	4676.3	4751.1	4770.9	4687.0
25°	5568.9	5497.2	5462.1	5309.5	5216.4	5135.6	5185.9	5282.1	5309.5	5205.8
27.5°	6311.9	6316.5	6282.9	6099.8	5945.7	5797.7	5771.8	5872.5	5901.5	5784.0
30°	7354.0	7245.7	7181.6	6961.9	6742.2	6534.7	6427.9	6469.1	6476.7	6336.3
32.5°	8252.6	8225.2	8087.9	7895.6	7613.4	7288.4	7109.9	7044.3	7032.1	6832.2
35°	9276.4	9261.1	9116.2	8887.3	8582.2	8130.6	7808.6	7621.0	7605.7	7325.0
37.5°	10316.9	10316.9	10175.0	9924.8	9609.0	9044.5	8554.7	8257.2	8208.4	7842.2
40°	11146.9	11096.6	11122.5	11017.2	10655.6	10056.0	9383.2	8951.4	8885.8	8446.4
42.5°	11618.4	11601.6	11757.2	11874.7	11726.7	11247.6	10295.6	9703.6	9612.1	9111.6
45°	11723.6	11705.3	11983.0	12413.3	12620.8	12424.0	11287.3	10495.4	10384.1	9807.3
47.5°	11481.1	11444.4	11851.8	12530.8	13196.0	13542.3	12361.4	11354.4	11192.7	10484.8
50°	10751.8	10716.7	11333.1	12234.8	13389.7	14302.1	13527.1	12265.3	12018.1	11211.0
52.5°	9166.5	9183.3	10149.1	11388.0	13134.9	14775.1	14531.0	13225.0	12927.4	11954.0
55°	7140.4	7177.0	8364.0	9728.0	12115.8	14703.4	15216.0	14213.6	13917.6	12652.8
57.5°	5112.7	5274.4	6386.7	7736.9	10158.3	13566.7	15365.5	15153.5	14866.6	13415.7
60°	3313.9	3342.9	4487.1	5848.1	7735.4	11546.7	15061.9	15866.0	15641.7	14193.8
62.5°	2123.8	2143.6	2840.9	4090.5	5567.4	8542.5	14039.7	16175.7	16107.0	14708.0
65°	1560.8	1545.6	1908.7	2703.6	3750.2	5268.3	12054.7	16026.2	16162.0	15029.9
67.5°	1303.0	1281.6	1460.1	1872.1	2763.1	2991.9	8919.4	15054.3	15551.7	14993.3
70°	1187.0	1168.7	1277.0	1389.9	2155.8	2003.3	4496.3	13087.6	13853.6	14576.8
72.5°	1005.5	973.4	1121.4	1234.3	1676.8	1536.4	1858.3	10053.0	10986.7	13241.7
75°	779.6	758.3	884.9	1086.3	1260.2	1199.2	1174.8	6104.4	7123.6	10240.6
77.5°	617.9	588.9	704.9	846.8	1133.6	904.8	855.9	2628.8	3638.8	6537.7
80°	465.3	439.4	535.5	669.8	871.2	682.0	553.8	1072.6	1371.6	3312.3
82.5°	331.1	308.2	373.8	491.3	585.9	611.8	340.2	601.1	675.9	1277.0
85°	212.1	198.3	250.2	308.2	372.3	393.6	207.5	314.3	344.8	526.4
87.5°	116.0	94.6	134.3	143.4	172.4	157.1	99.2	114.4	123.6	190.7
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°
3240.6	0°	3240.6	3240.6	3240.6	3240.6	3240.6	3240.6	3240.6	3240.6	3240.6	3240.6
3246.7	2.5°	3252.8	3257.4	3272.7	3277.3	3287.9	3301.7	3310.8	3320.0	3320.0	3329.1
3295.6	5°	3297.1	3307.8	3339.8	3356.6	3384.1	3411.5	3428.3	3448.1	3460.3	3466.4
3373.4	7.5°	3382.5	3399.3	3445.1	3474.1	3521.4	3559.5	3585.4	3612.9	3619.0	3635.8
3481.7	10°	3498.5	3518.3	3570.2	3625.1	3681.6	3728.9	3753.3	3773.1	3780.7	3783.8
3620.5	12.5°	3631.2	3660.2	3727.3	3794.5	3854.0	3895.2	3901.3	3896.7	3875.3	3857.0
3791.4	15°	3794.5	3820.4	3895.2	3968.4	4026.4	4034.0	3995.9	3971.5	3945.5	3940.9
3982.1	17.5°	3989.8	4003.5	4072.2	4143.9	4148.4	4122.5	4066.0	4043.2	4018.8	4002.0
4230.8	20°	4217.1	4212.5	4261.3	4291.9	4259.8	4180.5	4095.0	4056.9	4032.5	4012.6
4536.0	22.5°	4488.7	4453.6	4447.5	4439.9	4354.4	4188.1	4072.2	4023.3	3985.2	3957.7
4961.6	25°	4883.8	4749.6	4656.5	4604.6	4412.4	4146.9	3998.9	3890.6	3818.9	3771.6
5481.9	27.5°	5378.2	5152.4	4917.4	4790.8	4412.4	4063.0	3821.9	3646.5	3529.0	3480.2
5985.4	30°	5849.6	5613.1	5266.8	5015.0	4401.7	3925.7	3536.6	3292.5	3155.2	3106.4
6415.7	32.5°	6252.4	5994.6	5637.5	5260.7	4375.8	3702.9	3182.7	2912.6	2779.9	2721.9
6841.3	35°	6626.2	6351.6	6009.8	5530.7	4307.1	3376.4	2793.6	2587.6	2439.6	2346.6
7274.6	37.5°	7009.2	6682.7	6362.3	5774.9	4183.5	2995.0	2494.6	2319.1	2145.2	2020.1
7735.4	40°	7425.7	7035.1	6739.1	5919.8	3980.6	2631.9	2262.6	2102.4	1917.8	1785.1
8266.4	42.5°	7912.4	7457.7	7158.7	5994.6	3702.9	2374.0	2111.6	1954.5	1780.5	1672.2
8835.5	45°	8420.5	7923.1	7541.6	5993.0	3393.2	2253.5	2062.8	1907.2	1714.9	1602.0
9419.8	47.5°	8952.9	8409.8	7872.7	5895.4	3124.7	2270.3	2035.3	1804.9	1592.9	1483.0
10010.3	50°	9486.9	8942.3	8193.1	5712.3	3010.3	2233.7	1933.1	1661.5	1411.3	1312.1
10564.1	52.5°	10016.4	9508.3	8469.3	5451.4	2894.3	2097.9	1801.9	1475.4	1336.5	1267.9
11136.2	55°	10548.8	10068.2	8769.9	5071.5	2604.4	1939.2	1582.2	1405.2	1277.0	1214.5
11696.2	57.5°	11082.8	10715.1	9055.2	4691.6	2239.8	1743.9	1461.6	1319.7	1217.5	1164.1
12164.6	60°	11638.2	11455.1	9349.6	4342.2	1879.7	1493.7	1373.2	1251.1	1147.3	1087.8
12614.7	62.5°	12210.4	12269.9	9580.0	3892.1	1548.6	1341.1	1293.8	1168.7	1068.0	1011.6
12986.9	65°	12787.1	13055.6	9731.1	3268.1	1255.7	1196.2	1208.4	1078.7	976.5	927.6
13260.1	67.5°	13221.9	13621.6	9688.3	2473.2	1029.9	1058.9	1101.6	984.1	888.0	849.8
13215.8	70°	13270.7	13554.5	9267.2	1693.6	862.0	924.6	982.6	891.0	791.8	764.4
12593.3	72.5°	12620.8	12639.1	8094.0	1106.1	729.3	811.7	857.5	796.4	700.3	672.8
11017.2	75°	10916.5	10452.7	5942.7	729.3	610.3	697.3	740.0	697.3	604.2	610.3
8243.5	77.5°	8270.9	7402.8	3608.3	518.7	509.6	585.9	643.9	613.3	534.0	599.6
4145.4	80°	4261.3	4005.0	1609.6	387.5	402.8	468.4	529.4	489.8	422.6	402.8
926.1	82.5°	976.5	1135.1	634.7	277.7	291.4	337.2	404.3	367.7	303.6	256.3
386.0	85°	341.8	373.8	280.7	173.9	170.9	210.5	274.6	245.6	206.0	164.8
163.3	87.5°	108.3	141.9	105.3	70.2	73.2	94.6	126.6	116.0	96.1	62.6
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°
3240.6
3329.1
3469.5
3629.7
3776.2
3857.0
3940.9
4003.5
4014.2
3966.9
3789.9
3504.6
3135.4
2750.9
2377.1
2053.6
1811.0
1693.6
1620.3
1498.3
1318.2
1267.9
1208.4
1155.0
1083.3
1010.0
926.1
851.4
765.9
671.3
588.9
527.9
367.7
253.3
173.9
65.6
0.0

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