

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: P941852

Luminaire Tested: **GALN-SB5C-830-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941852
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-SB5C-830-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33696 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

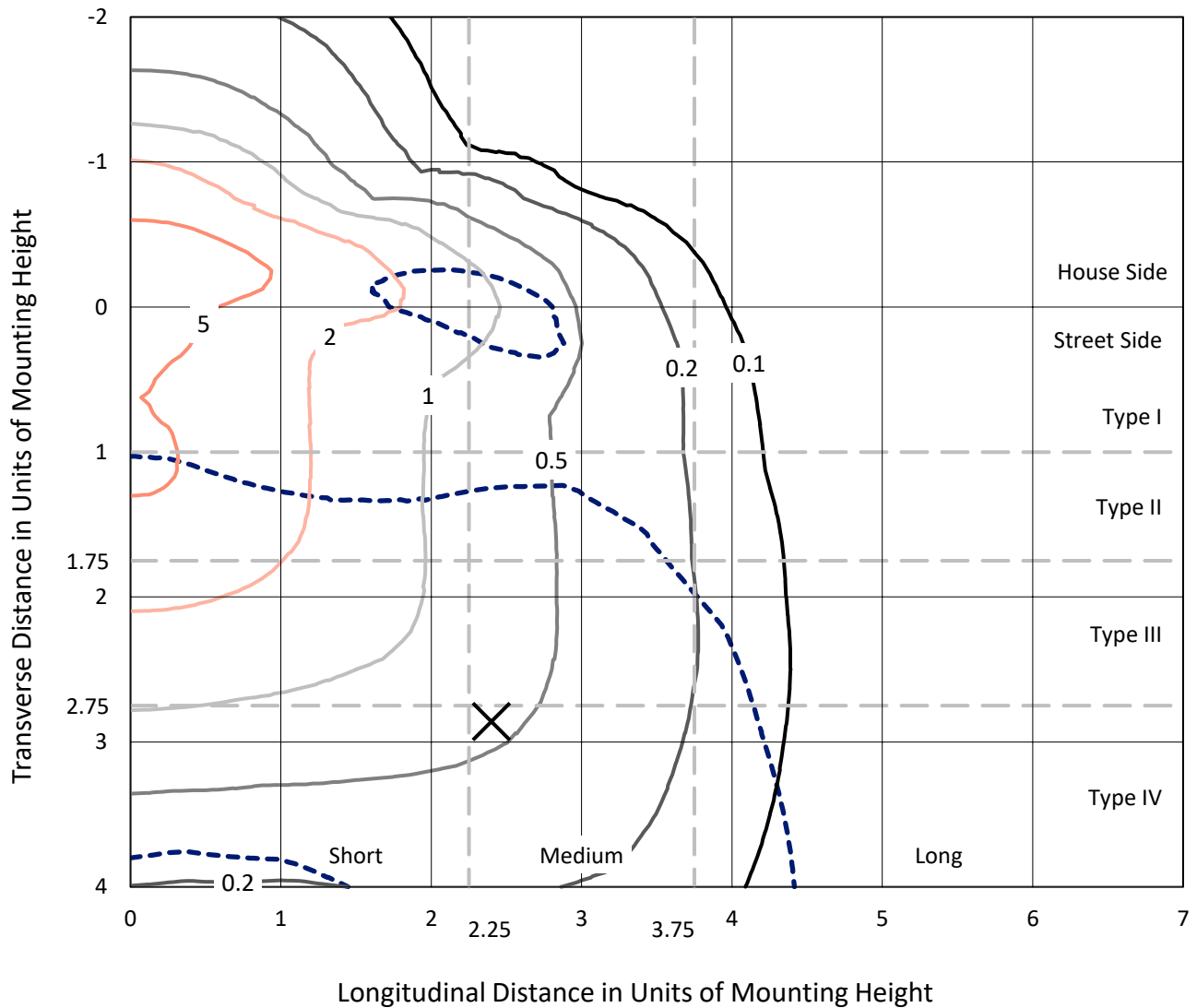
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

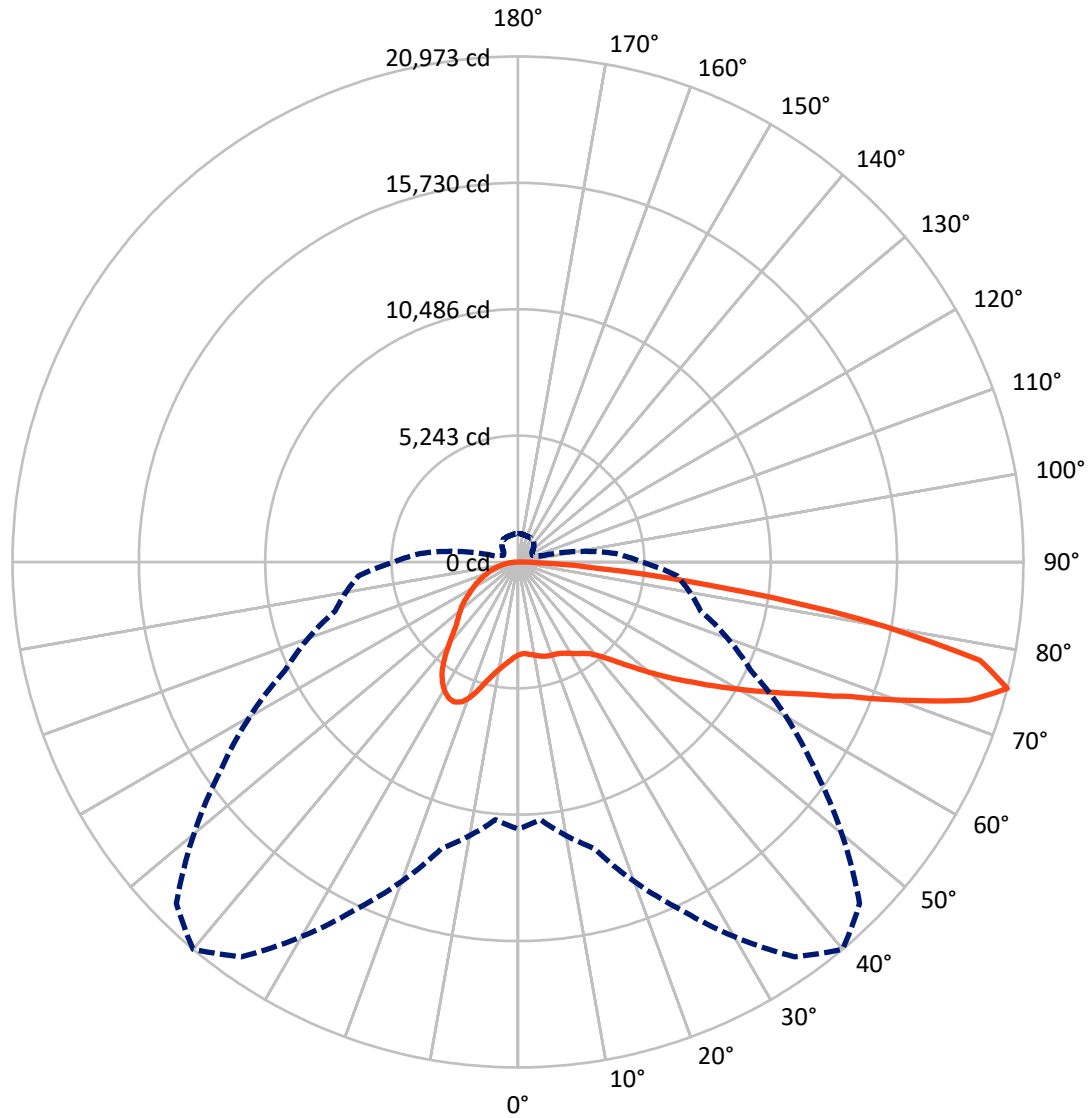
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10440.1	0.0	10440.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	23255.9	0.0	23255.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	33696.0	0.0	33696.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.6	1.1
10°-20°	1291.3	3.8
20°-30°	2357.9	7.0
30°-40°	3344.1	9.9
40°-50°	4515.6	13.4
50°-60°	6074.7	18.0
60°-70°	7710.2	22.9
70°-80°	6997.5	20.8
80°-90°	1020.0	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°	33696.0	100.0
0°-180°	33696.0	100.0



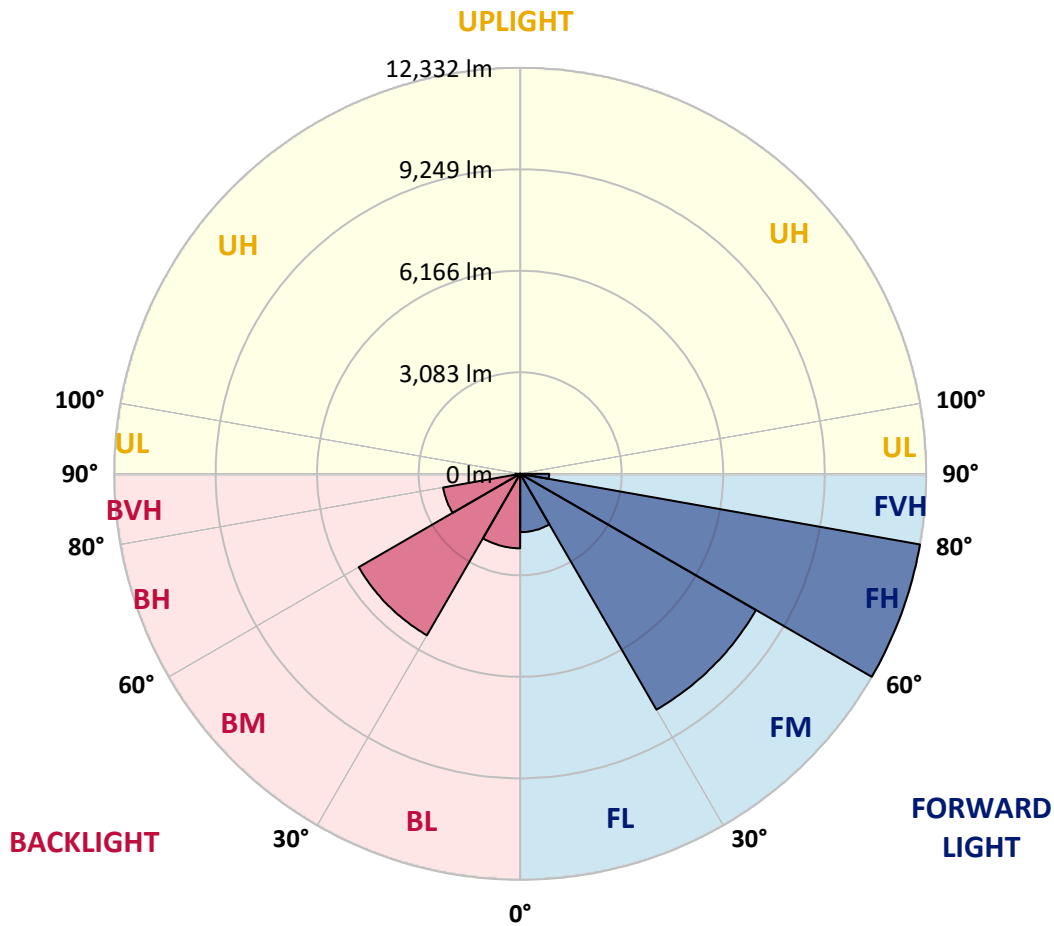
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1772.4	5.3			
FM (30°-60°)	8271.6	24.5			
FH (60°-80°)	12332.2	36.6			G5
FVH (80°-90°)	879.6	2.6			G5
BL (0°-30°)	2261.4	6.7	B3/2500		
BM (30°-60°)	5662.8	16.8	B4/8500		
BH (60°-80°)	2375.4	7.0	B3/2500		G3/2500
BVH (80°-90°)	140.4	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	3853.2	3853.2	3853.2	3853.2	3853.2	3853.2	3853.2	3853.2	3853.2	3853.2
2.5°	3794.2	3815.7	3810.3	3803.1	3803.1	3804.9	3803.1	3815.7	3828.2	3840.7
5°	3833.5	3855.0	3844.2	3835.3	3828.2	3826.4	3821.0	3819.2	3826.4	3842.5
7.5°	3910.4	3931.8	3915.7	3899.6	3885.4	3878.2	3871.1	3860.3	3855.0	3863.9
10°	3996.2	4017.6	3997.9	3969.3	3946.1	3937.2	3930.0	3919.3	3912.2	3917.5
12.5°	4081.9	4103.4	4076.6	4037.3	4006.9	4001.5	3992.6	3989.0	3987.2	3985.4
15°	4162.4	4180.2	4146.3	4099.8	4067.6	4058.7	4049.8	4055.1	4064.1	4074.8
17.5°	4224.9	4242.8	4192.7	4132.0	4101.6	4098.0	4092.7	4110.5	4135.6	4162.4
20°	4282.1	4300.0	4235.6	4153.4	4117.7	4117.7	4119.5	4157.0	4192.7	4232.1
22.5°	4362.5	4376.8	4298.2	4185.6	4133.8	4137.3	4151.6	4189.2	4233.9	4287.5
25°	4482.3	4493.0	4396.5	4246.4	4187.4	4198.1	4210.6	4228.5	4271.4	4333.9
27.5°	4675.3	4684.2	4557.3	4353.6	4264.2	4282.1	4300.0	4287.5	4307.1	4360.7
30°	4946.9	4952.3	4791.5	4521.6	4394.7	4403.6	4407.2	4355.4	4317.9	4360.7
32.5°	5268.6	5266.9	5075.6	4725.3	4543.0	4534.1	4503.7	4401.8	4314.3	4351.8
35°	5767.3	5747.6	5501.0	5011.3	4711.0	4655.6	4584.1	4453.7	4332.1	4342.9
37.5°	6592.9	6532.2	6190.8	5479.5	4961.2	4820.1	4714.6	4537.7	4371.5	4339.3
40°	7524.1	7447.2	7071.9	6121.1	5336.6	5109.6	4939.8	4657.4	4435.8	4355.4
42.5°	8628.6	8519.5	8115.6	6877.1	5811.9	5483.1	5227.5	4809.3	4530.5	4407.2
45°	9985.0	9840.3	9268.4	7729.6	6410.7	5972.8	5631.4	5039.9	4675.3	4507.3
47.5°	11355.8	11391.6	10578.4	8705.4	7129.1	6576.9	6137.2	5386.6	4886.2	4668.1
50°	12812.4	12837.4	11881.2	9786.7	7944.1	7259.6	6705.5	5774.4	5179.3	4896.9
52.5°	13949.0	13952.6	13064.4	10917.9	8793.0	8010.2	7318.5	6217.6	5518.8	5200.7
55°	14660.3	14651.4	13893.6	11988.5	9768.8	8798.3	7997.7	6721.6	5933.5	5558.2
57.5°	15176.8	15150.0	14465.5	12908.9	10808.9	9729.5	8766.2	7293.5	6423.2	5983.5
60°	15373.4	15357.3	14853.3	13704.2	11902.7	10758.9	9652.6	7933.3	6979.0	6485.7
62.5°	15448.5	15478.9	15234.0	14474.5	13073.3	11899.1	10626.6	8698.3	7604.5	7054.0
65°	15713.0	15768.4	15718.3	15482.4	14395.8	13234.1	11918.8	9607.9	8287.2	7663.5
67.5°	16236.6	16292.0	16313.5	16688.8	16011.4	14898.0	13530.8	10741.0	9086.1	8296.1
70°	16224.1	16208.0	16586.9	17648.5	18034.5	17201.7	15704.0	12135.0	10038.6	8821.6
72.5°	14767.6	14638.9	15534.3	17637.8	19718.1	19607.3	18358.0	13932.9	10860.8	8885.9
75°	11078.8	10735.7	12317.3	15895.3	19998.7	20972.7	20045.1	15048.1	10666.0	7851.1
77.5°	4737.8	4392.9	6257.0	11766.9	17898.7	19605.5	18497.4	13128.7	8514.2	5191.8
80°	1240.3	1238.5	1890.8	5334.8	12172.6	14478.0	12701.6	8478.4	4864.7	1855.1
82.5°	512.9	500.4	695.2	2074.9	5947.8	8124.6	6630.5	3781.7	1756.8	502.2
85°	191.2	189.4	337.8	716.7	2098.2	3351.0	2425.2	966.9	437.9	244.8
87.5°	53.6	51.8	73.3	248.4	511.1	775.6	414.6	159.1	123.3	96.5
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°
3853.2	0°	3853.2	3853.2	3853.2	3853.2	3853.2	3853.2	3853.2	3853.2	3853.2	3853.2
3860.3	2.5°	3865.7	3874.6	3890.7	3903.2	3919.3	3937.2	3962.2	3978.3	3994.4	4005.1
3869.3	5°	3881.8	3901.4	3942.5	3983.6	4031.9	4076.6	4128.4	4165.9	4196.3	4205.3
3901.4	7.5°	3917.5	3949.7	4019.4	4089.1	4165.9	4239.2	4314.3	4378.6	4430.4	4450.1
3958.6	10°	3980.1	4023.0	4121.3	4219.6	4321.4	4434.0	4530.5	4623.5	4696.7	4727.1
4026.5	12.5°	4058.7	4112.3	4241.0	4376.8	4518.0	4673.5	4798.6	4913.0	5004.1	5045.2
4121.3	15°	4160.6	4230.3	4394.7	4577.0	4784.3	5000.6	5159.6	5286.5	5388.4	5438.4
4219.6	17.5°	4271.4	4364.3	4571.6	4846.9	5143.5	5427.7	5613.6	5706.5	5811.9	5860.2
4310.7	20°	4378.6	4493.0	4789.7	5190.0	5585.0	5887.0	6037.1	6062.1	6069.3	6074.7
4396.5	22.5°	4489.4	4643.1	5063.1	5622.5	6046.1	6255.2	6276.6	6169.4	6019.3	5949.6
4480.5	25°	4611.0	4814.7	5420.5	6099.7	6442.8	6467.8	6303.4	6042.5	5758.3	5627.9
4548.4	27.5°	4728.9	5013.1	5849.5	6555.4	6728.8	6508.9	6155.1	5785.1	5442.0	5304.4
4596.7	30°	4846.9	5240.0	6323.1	6954.0	6859.2	6407.1	5921.0	5508.1	5163.2	5018.4
4639.5	32.5°	4966.6	5504.5	6868.2	7241.7	6836.0	6190.8	5629.6	5197.1	4893.3	4741.4
4677.1	35°	5102.4	5829.8	7384.7	7399.0	6680.5	5872.7	5245.4	4825.4	4560.9	4439.4
4721.8	37.5°	5279.4	6242.7	7840.4	7438.3	6408.9	5406.3	4768.2	4385.8	4167.7	4112.3
4787.9	40°	5499.2	6739.5	8188.9	7375.7	6006.7	4839.7	4246.4	3940.8	3817.4	3829.9
4877.2	42.5°	5785.1	7295.3	8433.8	7214.9	5447.4	4255.3	3788.8	3653.0	3712.0	3762.0
5011.3	45°	6156.9	7872.6	8585.7	6941.4	4814.7	3760.2	3519.0	3551.1	3595.8	3601.2
5227.5	47.5°	6632.3	8457.0	8685.7	6528.6	4169.5	3411.7	3347.4	3354.6	3345.6	3308.1
5551.0	50°	7225.6	9025.3	8775.1	5981.7	3620.8	3193.7	3107.9	3082.9	2959.6	2838.1
5981.7	52.5°	7901.2	9547.2	8812.6	5302.6	3193.7	3011.4	2872.0	2714.7	2484.2	2446.7
6523.2	55°	8651.8	10029.7	8716.1	4468.0	2834.5	2777.3	2566.4	2377.0	2351.9	2319.8
7236.3	57.5°	9549.0	10549.8	8519.5	3536.8	2466.3	2503.9	2298.3	2319.8	2275.1	2225.1
8153.2	60°	10530.1	11087.7	8174.6	2687.9	2085.7	2162.5	2228.6	2226.8	2214.3	2173.2
9120.0	62.5°	11413.0	11441.6	7495.5	2058.8	1751.4	1898.0	2078.5	2076.7	2066.0	2042.8
10129.8	65°	11938.4	11388.0	6362.4	1621.0	1476.2	1680.0	1874.8	1889.1	1890.8	1889.1
10889.4	67.5°	11845.5	10760.7	4807.5	1290.4	1249.2	1458.3	1672.8	1692.5	1706.8	1710.3
10985.9	70°	10794.6	9382.7	3134.7	1029.4	1047.3	1263.5	1481.6	1501.2	1513.8	1528.0
9532.9	72.5°	8414.1	6898.6	1794.3	832.8	870.4	1095.5	1292.1	1315.4	1322.5	1349.3
6634.1	75°	5127.4	4056.9	968.7	655.9	714.9	936.5	1104.5	1131.3	1143.8	1176.0
3258.0	77.5°	2437.7	1756.8	552.2	511.1	575.5	764.9	932.9	963.3	929.3	947.2
899.0	80°	823.9	652.3	348.5	389.6	439.6	596.9	747.0	777.4	705.9	702.4
298.5	82.5°	287.7	264.5	221.6	259.1	284.2	427.1	564.8	604.1	525.4	523.6
134.0	85°	112.6	107.2	123.3	141.2	169.8	262.7	371.7	391.4	323.5	260.9
39.3	87.5°	23.2	25.0	30.4	32.2	51.8	91.1	134.0	164.4	130.5	110.8
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°
3853.2
3997.9
4208.8
4451.9
4728.9
5045.2
5434.8
5858.4
6089.0
5969.2
5647.5
5320.5
5034.5
4761.1
4466.2
4151.6
3872.8
3808.5
3636.9
3336.7
2854.1
2459.2
2325.1
2216.1
2158.9
2033.8
1889.1
1713.9
1535.2
1360.1
1179.5
932.9
695.2
498.6
257.4
101.9
0.0

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