

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: P953941

Luminaire Tested: **GALN-SB7B-830-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953941  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7B-830-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

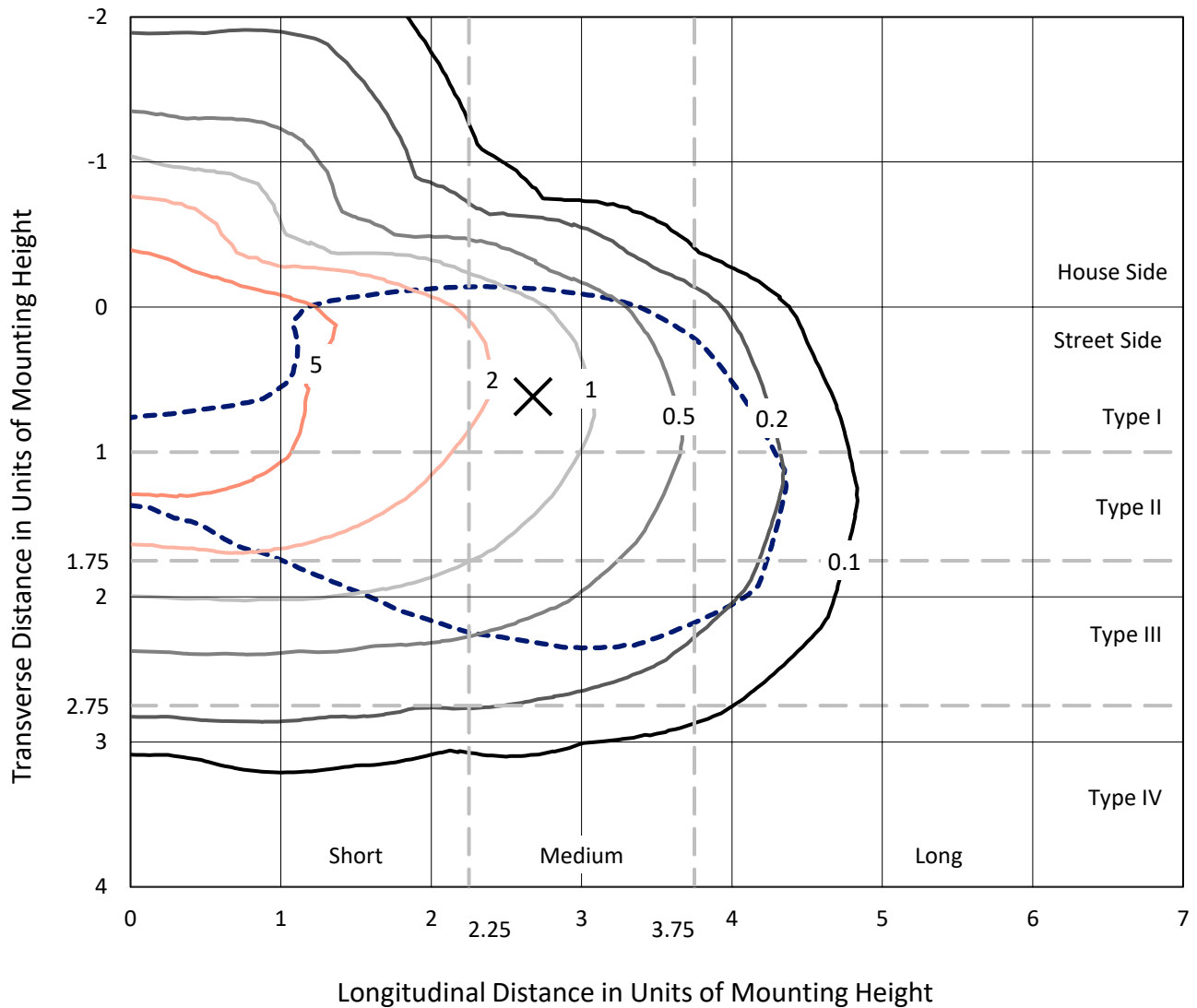
Lumens per Lamp: N/A  
Luminaire Lumens: 36941 lumens  
Efficiency: N/A  
Efficacy: 143.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): 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

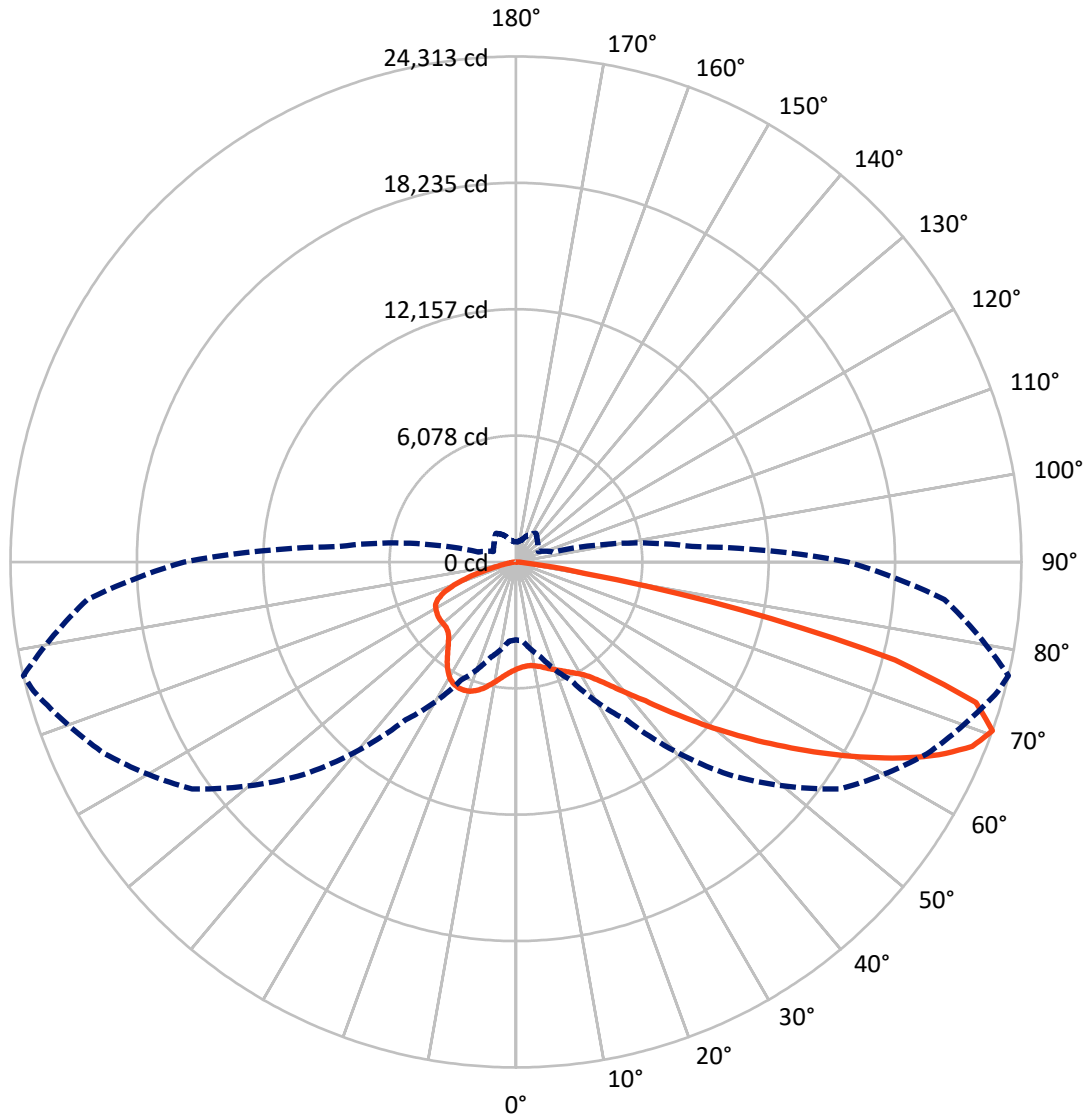
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8089.5	0.0	8089.5
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	28851.5	0.0	28851.5
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	36941.0	0.0	36941.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	491.5	1.3
10°-20°	1418.6	3.8
20°-30°	2425.9	6.6
30°-40°	3901.2	10.6
40°-50°	6090.7	16.5
50°-60°	8135.8	22.0
60°-70°	8671.5	23.5
70°-80°	5338.1	14.5
80°-90°	467.8	1.3
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°	36941.0	100.0
0°-180°	36941.0	100.0



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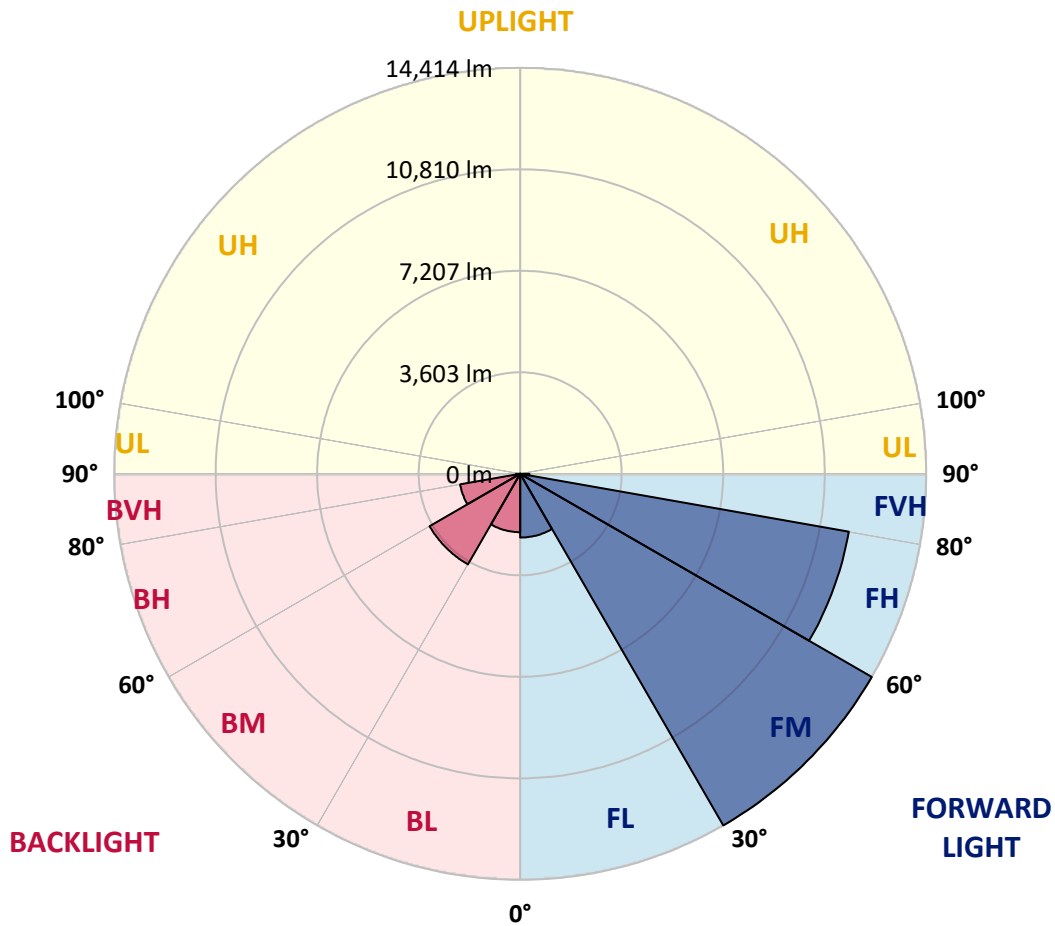
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2263.2	6.1			
FM (30°-60°)	14413.6	39.0			
FH (60°-80°)	11847.6	32.1			G4/12000
FVH (80°-90°)	327.1	0.9			G3/500
BL (0°-30°)	2072.8	5.6	B3/2500		
BM (30°-60°)	3714.1	10.1	B3/5000		
BH (60°-80°)	2162.0	5.9	B3/2500		G3/2500
BVH (80°-90°)	140.7	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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5153.6	5153.6	5153.6	5153.6	5153.6	5153.6	5153.6	5153.6	5153.6	5153.6
2.5°	4750.6	4748.7	4773.3	4780.9	4826.3	4858.5	4919.0	4983.3	5066.6	5076.0
5°	4476.3	4476.3	4504.7	4534.9	4593.6	4657.9	4750.6	4862.2	5006.0	5028.7
7.5°	4243.6	4258.7	4283.3	4342.0	4410.1	4502.8	4644.7	4803.6	4992.8	5028.7
10°	4056.3	4073.3	4103.6	4150.9	4253.0	4381.7	4567.1	4771.4	5025.0	5081.7
12.5°	3997.6	4014.7	4031.7	4067.6	4162.2	4313.6	4534.9	4786.6	5102.5	5159.3
15°	4133.9	4154.7	4141.4	4132.0	4181.2	4319.3	4550.1	4841.4	5199.0	5280.4
17.5°	4447.9	4455.5	4425.2	4336.3	4328.7	4402.5	4622.0	4917.1	5320.1	5409.0
20°	4955.0	4941.7	4879.3	4703.3	4603.1	4587.9	4745.0	5030.6	5445.0	5539.6
22.5°	5643.6	5628.5	5503.6	5225.5	5002.3	4854.7	4922.8	5178.2	5585.0	5690.9
25°	6502.5	6481.7	6298.2	5919.8	5573.6	5208.5	5165.0	5373.1	5757.1	5855.5
27.5°	7505.3	7488.2	7289.6	6790.1	6290.7	5692.8	5465.8	5602.0	5936.9	6048.5
30°	8583.7	8632.9	8281.0	7743.7	7111.7	6324.7	5870.6	5883.9	6169.6	6269.8
32.5°	9851.3	9936.4	9512.6	8831.5	7968.8	7011.5	6381.5	6277.4	6508.2	6591.5
35°	11107.5	11204.0	10852.1	10099.1	9105.8	7821.2	6915.0	6729.6	6958.5	7049.3
37.5°	12193.5	12322.1	12140.5	11485.9	10322.3	8797.5	7611.2	7261.2	7512.8	7626.4
40°	13050.5	13247.3	13234.0	12825.4	11756.4	9981.8	8494.7	7917.7	8201.5	8324.5
42.5°	13746.7	13917.0	14064.6	14043.8	13252.9	11327.0	9533.4	8771.0	8986.6	9128.5
45°	14227.3	14408.9	14726.8	15069.2	14692.7	12766.7	10723.4	9783.1	9979.9	10193.7
47.5°	14656.8	14863.0	15275.4	15818.4	15914.9	14212.1	12027.0	10961.8	11141.6	11362.9
50°	14694.6	14872.4	15511.9	16281.9	16783.3	15600.8	13427.0	12284.3	12452.7	12689.1
52.5°	13780.8	14060.8	15177.0	16268.7	17182.5	16762.5	14817.6	13659.7	13848.9	14132.7
55°	10696.9	11107.5	14195.1	15761.6	17040.6	17513.6	16140.0	15122.2	15364.3	15661.4
57.5°	9213.7	9393.4	11268.3	14838.4	16393.5	17708.4	17256.3	16599.8	16989.5	17314.9
60°	8281.0	8430.4	9539.1	13402.4	15542.2	17400.0	18119.0	17977.1	18650.6	19038.5
62.5°	7282.0	7423.9	8432.3	11190.7	14452.4	16887.3	18663.9	19248.5	20353.3	20777.1
65°	6290.7	6411.7	7378.5	9402.9	13067.5	16374.6	18945.7	20347.7	21929.3	22368.2
67.5°	5185.8	5286.0	6199.8	7932.8	11383.7	15672.7	19085.7	21212.3	23301.0	23677.5
70°	3742.2	3819.8	4763.9	6273.6	9270.4	14465.7	19029.0	21825.3	24012.3	24313.1
72.5°	1769.0	1839.0	2947.6	4073.3	6548.0	12115.9	17880.6	21339.0	23289.6	23140.1
75°	944.1	1004.6	1693.3	2234.4	3458.4	8305.6	14632.2	18382.0	19556.8	18830.3
77.5°	639.5	686.8	1048.1	1341.4	1579.8	3942.8	9404.8	12727.0	12244.5	11045.1
80°	507.0	556.2	858.9	908.1	764.3	1424.6	3886.0	5891.5	4232.2	3384.7
82.5°	389.7	444.6	722.7	658.4	416.2	584.6	1131.4	1863.5	1084.1	824.9
85°	238.4	297.0	567.6	420.0	234.6	266.8	384.1	518.4	331.1	276.2
87.5°	121.1	170.3	287.6	153.2	105.9	62.4	102.2	102.2	87.0	75.7
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°
5153.6	0°	5153.6	5153.6	5153.6	5153.6	5153.6	5153.6	5153.6	5153.6	5153.6	5153.6
5127.1	2.5°	5172.5	5210.4	5274.7	5335.2	5382.5	5427.9	5473.3	5497.9	5505.5	5535.8
5155.5	5°	5233.1	5303.1	5427.9	5545.2	5619.0	5664.4	5696.6	5715.5	5719.3	5728.8
5233.1	7.5°	5344.7	5456.3	5630.4	5747.7	5802.5	5798.8	5785.5	5738.2	5719.3	5702.3
5346.6	10°	5501.7	5649.3	5863.1	5944.4	5910.4	5819.6	5702.3	5564.2	5499.8	5437.4
5501.7	12.5°	5696.6	5883.9	6093.9	6090.1	5921.7	5689.0	5416.6	5204.7	5070.4	4973.9
5692.8	15°	5933.1	6148.8	6309.6	6180.9	5812.0	5393.9	4994.7	4718.5	4597.4	4491.4
5885.8	17.5°	6177.1	6408.0	6481.7	6152.5	5535.8	4956.8	4504.7	4287.1	4167.9	4111.2
6093.9	20°	6415.5	6644.4	6583.9	5989.8	5115.8	4461.2	4058.2	3939.0	3914.4	3927.6
6296.3	22.5°	6667.1	6871.5	6604.7	5675.8	4580.4	3954.1	3732.8	3736.6	3791.4	3831.2
6508.2	25°	6924.4	7062.6	6549.8	5221.7	4005.2	3581.4	3526.6	3587.1	3694.9	3772.5
6746.6	27.5°	7172.3	7232.8	6430.7	4659.8	3511.4	3314.7	3324.1	3449.0	3611.7	3719.5
7036.1	30°	7452.3	7384.2	6201.7	4027.9	3169.0	3085.7	3165.2	3310.9	3473.6	3570.1
7401.2	32.5°	7768.2	7514.7	5838.5	3443.3	2926.8	2902.2	3032.8	3127.4	3199.2	3227.6
7885.5	35°	8161.8	7698.2	5373.1	3032.8	2709.2	2767.9	2892.8	2845.5	2817.1	2801.9
8536.4	37.5°	8672.6	7946.1	4828.2	2766.0	2533.3	2671.4	2722.5	2574.9	2463.3	2408.4
9325.3	40°	9287.5	8309.3	4304.1	2559.8	2421.7	2588.2	2499.2	2321.4	2179.5	2101.9
10212.6	42.5°	9970.5	8689.6	3863.3	2404.6	2359.2	2520.0	2334.6	2122.7	1893.8	1869.2
11270.2	45°	10687.5	9081.2	3562.5	2285.4	2329.0	2461.4	2240.0	1897.6	1734.9	1835.2
12331.6	47.5°	11404.5	9440.7	3380.9	2196.5	2313.8	2395.2	2156.8	1772.7	1657.3	1803.0
13468.6	50°	12202.9	9762.3	3299.5	2132.2	2296.8	2368.7	2031.9	1740.6	1576.0	1672.5
14645.4	52.5°	12995.6	10012.1	3239.0	2067.9	2272.2	2347.9	1971.4	1702.7	1477.6	1483.3
15829.7	55°	13786.5	10174.8	3172.8	1982.7	2217.3	2302.5	1965.7	1661.1	1403.8	1377.3
17082.2	57.5°	14630.3	10267.5	3091.4	1888.1	2122.7	2187.1	1960.0	1628.9	1381.1	1337.6
18363.0	60°	15489.2	10403.7	2985.5	1772.7	1996.0	2049.0	1946.8	1617.6	1367.9	1294.1
19570.1	62.5°	16259.2	10451.0	2858.7	1663.0	1833.3	1912.7	1918.4	1608.1	1331.9	1205.2
20572.8	65°	16764.4	10246.7	2637.3	1538.1	1657.3	1772.7	1863.5	1576.0	1267.6	1140.8
21068.5	67.5°	16743.5	9664.0	2291.1	1377.3	1487.1	1617.6	1784.1	1521.1	1190.0	1061.4
20693.9	70°	15964.1	8513.7	1852.2	1190.0	1299.8	1451.1	1681.9	1439.8	1097.3	974.3
18400.9	72.5°	13691.9	6663.4	1345.2	970.6	1082.2	1278.9	1549.5	1341.4	1002.7	896.8
13599.2	75°	9781.3	4217.1	911.9	745.4	841.9	1084.1	1384.9	1226.0	915.7	900.6
6810.9	77.5°	4996.6	2014.9	603.5	544.9	586.5	855.2	1163.5	1095.4	928.9	743.5
1937.3	80°	1625.2	743.5	380.3	370.8	389.7	569.5	900.6	898.7	703.8	505.1
469.2	82.5°	518.4	319.7	247.8	238.4	228.9	357.6	628.1	711.4	474.9	319.7
168.4	85°	206.2	191.1	145.7	134.3	96.5	168.4	329.2	473.0	353.8	230.8
43.5	87.5°	75.7	75.7	39.7	28.4	20.8	56.8	88.9	141.9	202.4	119.2
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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<u>180°</u>
5153.6
5552.8
5743.9
5706.0
5418.5
4951.2
4480.1
4128.2
3922.0
3840.6
3793.3
3746.0
3592.8
3242.8
2817.1
2421.7
2107.6
1893.8
1888.1
1871.1
1744.4
1523.0
1396.2
1343.3
1299.8
1205.2
1140.8
1067.0
985.7
891.1
849.5
662.2
446.5
317.8
236.5
117.3
0.0

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