

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: P951441

Luminaire Tested: **GALN-SB5C-830-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951441  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
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-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

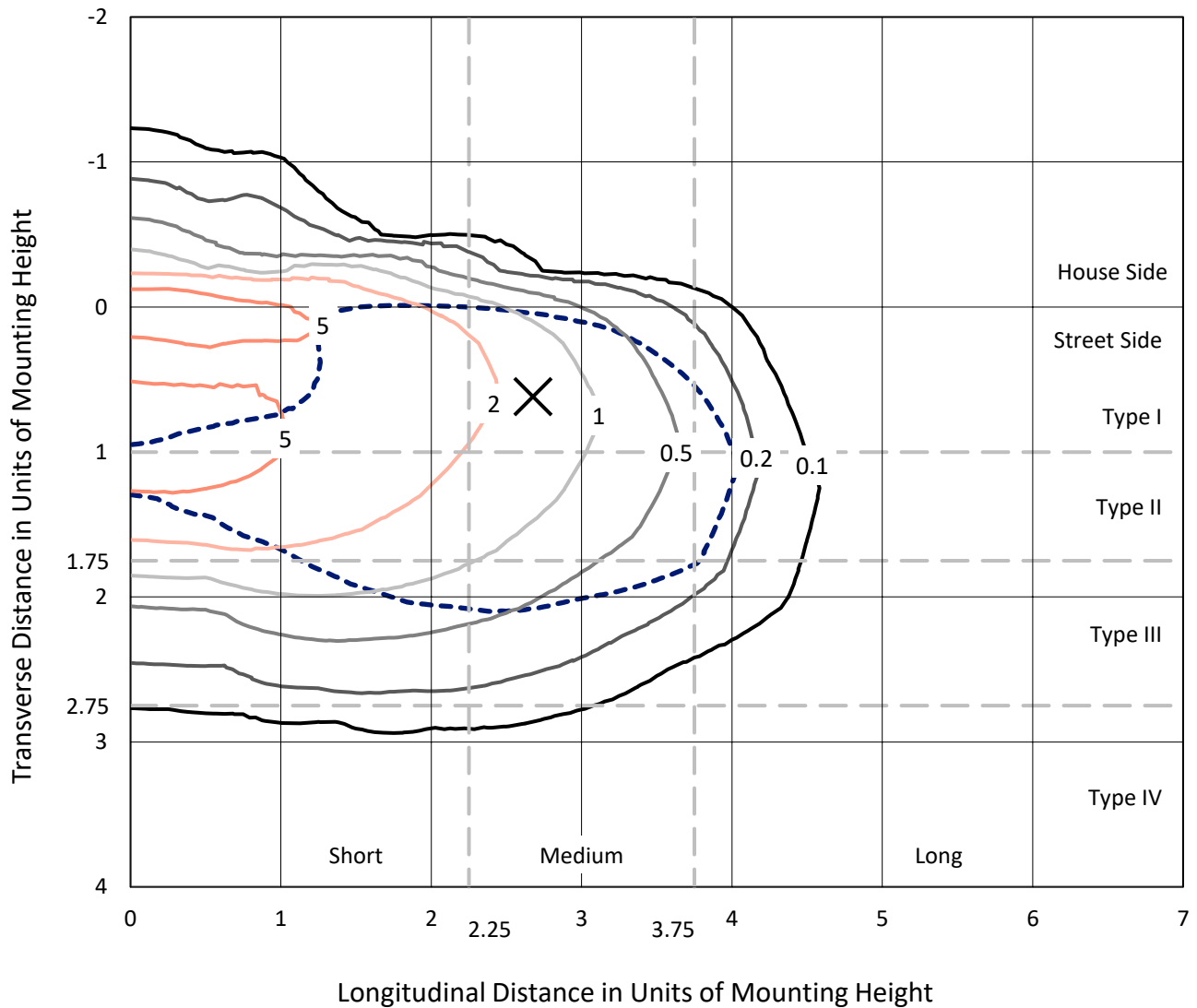
Lumens per Lamp: N/A  
Luminaire Lumens: 28300 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): 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

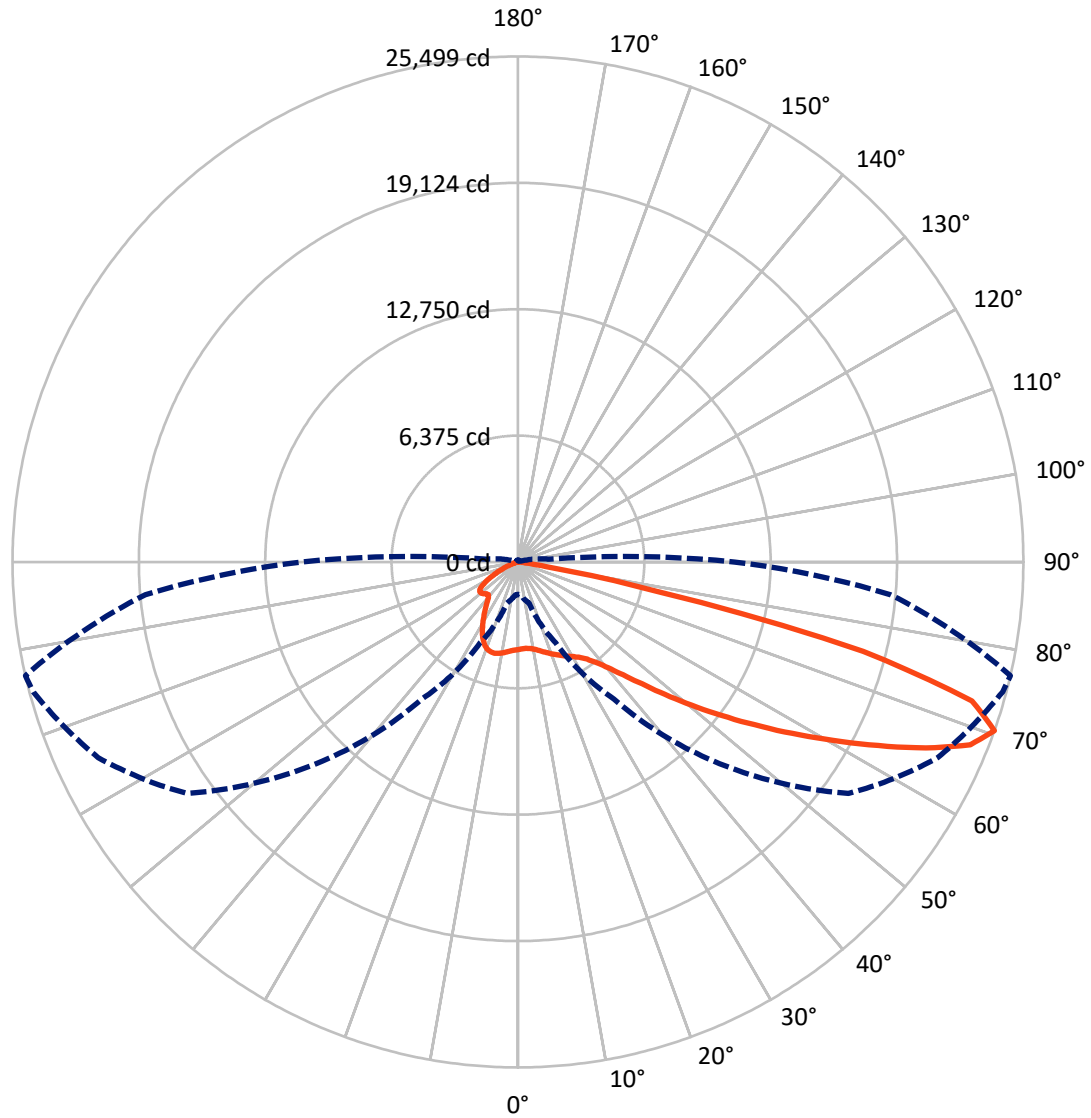
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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	2983.2	0.0	2983.2
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	25316.8	0.0	25316.8
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	28300.0	0.0	28300.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	380.4	1.3
10°-20°	903.1	3.2
20°-30°	1396.9	4.9
30°-40°	2534.7	9.0
40°-50°	4784.6	16.9
50°-60°	6913.3	24.4
60°-70°	7359.1	26.0
70°-80°	3899.8	13.8
80°-90°	128.1	0.5
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°	28300.0	100.0
0°-180°	28300.0	100.0

**Coefficient of Utilization**



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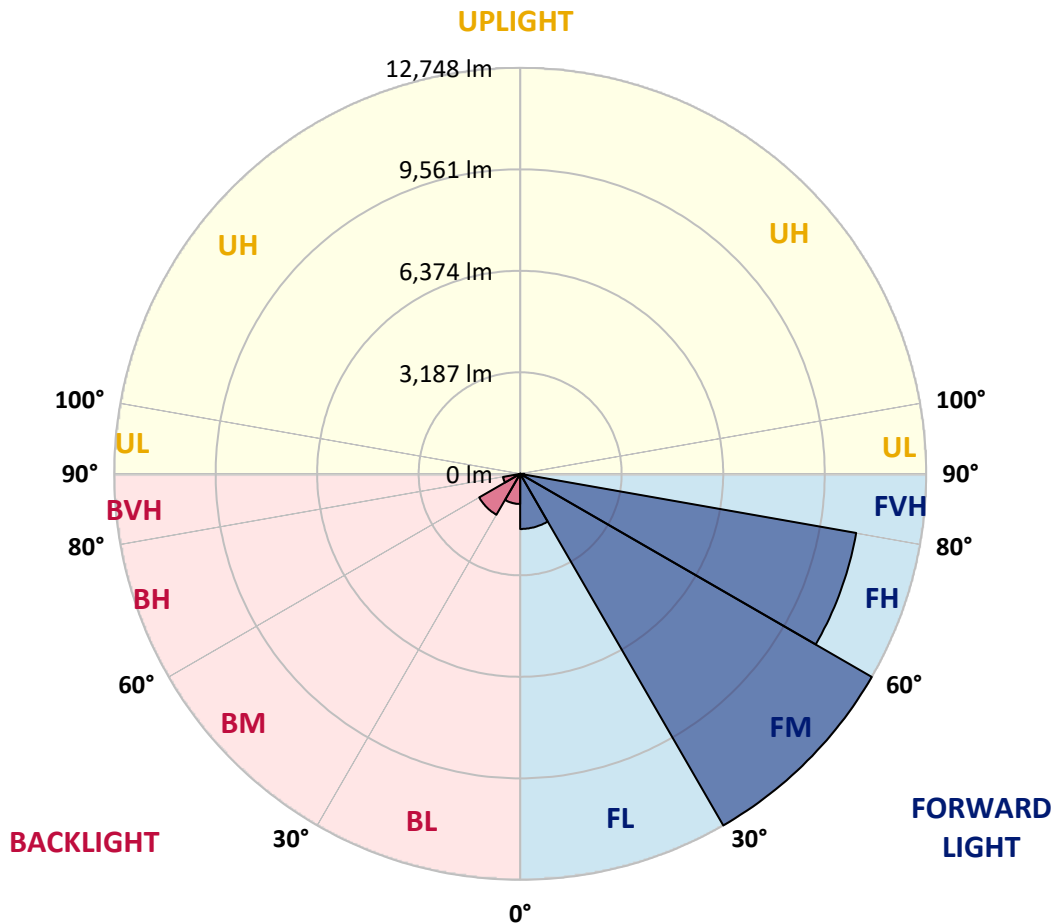
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1732.6	6.1			
FM (30°-60°)	12747.6	45.0			
FH (60°-80°)	10712.0	37.9			G4/12000
FVH (80°-90°)	124.6	0.4			G2/225
BL (0°-30°)	947.8	3.3	B2/1000		
BM (30°-60°)	1485.1	5.2	B2/2500		
BH (60°-80°)	546.9	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4414.3	4414.3	4414.3	4414.3	4414.3	4414.3	4414.3	4414.3	4414.3	4414.3
2.5°	4144.4	4182.0	4176.6	4201.6	4210.6	4246.3	4282.0	4330.3	4383.9	4382.1
5°	3910.3	3947.8	3956.8	3990.7	4033.6	4089.0	4162.3	4258.8	4358.9	4375.0
7.5°	3633.3	3672.6	3695.8	3763.8	3842.4	3956.8	4076.5	4217.7	4383.9	4407.1
10°	3356.3	3392.0	3422.4	3518.9	3644.0	3813.8	4008.6	4212.3	4435.7	4469.7
12.5°	3184.7	3218.7	3252.6	3336.6	3492.1	3699.4	3963.9	4237.4	4521.5	4569.8
15°	3124.0	3154.3	3181.1	3256.2	3401.0	3636.9	3955.0	4289.2	4630.5	4694.9
17.5°	3132.9	3149.0	3166.9	3224.0	3365.2	3608.3	3971.1	4378.5	4759.2	4816.4
20°	3184.7	3193.7	3195.4	3234.8	3359.9	3604.7	4003.2	4464.3	4880.7	4957.6
22.5°	3250.8	3254.4	3250.8	3277.7	3393.8	3631.5	4046.1	4568.0	5016.6	5088.0
25°	3560.0	3492.1	3406.3	3354.5	3451.0	3683.3	4110.5	4707.4	5164.9	5234.6
27.5°	4519.7	4324.9	4017.5	3672.6	3569.0	3758.4	4199.8	4848.6	5315.0	5377.6
30°	6078.1	5822.6	5300.7	4523.3	3947.8	3915.7	4316.0	4989.8	5474.1	5542.0
32.5°	7640.1	7577.6	6975.3	5899.4	4800.3	4266.0	4509.0	5181.0	5685.0	5738.6
35°	9220.0	9093.1	8599.8	7536.5	6113.9	4979.0	4830.7	5431.2	5962.0	6022.7
37.5°	10429.9	10353.0	10047.4	9171.7	7672.3	6079.9	5381.1	5819.0	6364.1	6432.0
40°	11498.6	11462.9	11359.2	10781.9	9414.8	7520.4	6237.2	6419.5	6921.7	7002.1
42.5°	12338.6	12422.6	12481.5	12320.7	11210.9	9164.6	7388.1	7263.0	7699.1	7781.3
45°	13198.2	13226.8	13464.5	13696.8	12994.5	10883.8	8685.6	8251.3	8665.9	8767.8
47.5°	13750.4	13864.8	14283.0	14692.3	14493.9	12588.8	10079.6	9418.3	9786.5	9977.7
50°	13791.5	14007.8	14583.2	15296.3	15585.8	14211.5	11595.1	10748.0	11139.4	11350.3
52.5°	13107.0	13443.0	14334.8	15378.5	16175.6	15585.8	13162.4	12077.6	12579.8	12855.1
55°	10049.2	10488.9	13400.1	14931.7	16198.8	16627.8	14688.7	13462.7	14184.7	14495.7
57.5°	8755.3	8976.9	10535.3	14156.1	15768.1	17047.7	16068.4	14781.6	15930.8	16316.8
60°	7284.5	7575.8	8835.7	12887.2	15183.7	17088.8	17287.2	16483.0	17823.4	18257.6
62.5°	4950.4	5266.8	6519.6	10706.9	14384.9	17069.2	18286.2	18234.4	19926.9	20393.3
65°	3066.8	3265.1	4090.8	8742.8	13267.9	17090.6	19331.7	20361.1	22146.5	22620.1
67.5°	2423.4	2514.5	2945.2	6712.6	11343.1	16608.1	20375.4	22361.0	24235.7	24611.0
70°	1628.1	1683.5	2142.8	4500.1	8439.0	14381.3	20355.8	23365.3	25311.6	25499.2
72.5°	857.8	900.7	1252.8	2083.8	5097.0	10222.6	17158.5	22164.4	24241.1	23958.7
75°	428.9	500.4	843.5	1058.0	2176.8	5701.0	10655.1	17474.9	19079.7	17986.0
77.5°	325.3	393.2	697.0	697.0	757.8	1919.4	4512.6	9530.9	8791.0	7320.2
80°	207.3	268.1	609.4	527.2	316.3	487.9	1176.0	2670.0	1867.6	1420.8
82.5°	121.5	175.1	507.6	348.5	176.9	180.5	332.4	568.3	484.3	377.1
85°	48.3	114.4	348.5	137.6	69.7	44.7	100.1	121.5	100.1	75.1
87.5°	0.0	26.8	60.8	0.0	5.4	3.6	7.1	8.9	8.9	7.1
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°
4414.3	0°	4414.3	4414.3	4414.3	4414.3	4414.3	4414.3	4414.3	4414.3	4414.3	4414.3
4417.9	2.5°	4433.9	4437.5	4448.2	4450.0	4425.0	4392.8	4380.3	4375.0	4353.5	4351.7
4446.5	5°	4487.6	4503.6	4487.6	4441.1	4330.3	4174.8	4056.9	3960.3	3872.8	3846.0
4544.8	7.5°	4594.8	4610.9	4562.6	4380.3	4101.5	3792.4	3513.6	3317.0	3140.0	3073.9
4664.5	10°	4748.5	4769.9	4618.0	4249.9	3756.6	3259.8	2788.0	2455.6	2196.4	2091.0
4827.1	12.5°	4941.5	4950.4	4648.4	4051.5	3308.0	2598.5	1930.1	1574.5	1343.9	1258.2
5023.7	15°	5154.2	5141.7	4652.0	3781.6	2696.8	1837.2	1259.9	1034.8	941.8	913.2
5220.3	17.5°	5377.6	5325.7	4580.5	3392.0	2026.6	1256.4	934.7	881.1	865.0	857.8
5415.1	20°	5597.4	5481.2	4450.0	2882.7	1454.7	938.3	848.9	832.8	823.9	820.3
5611.7	22.5°	5797.6	5599.2	4226.6	2291.1	1056.2	829.2	802.4	788.1	772.1	764.9
5802.9	25°	5992.4	5667.1	3912.1	1738.9	845.3	775.6	754.2	727.4	705.9	697.0
6008.4	27.5°	6181.8	5710.0	3518.9	1286.8	754.2	725.6	686.3	648.7	632.7	629.1
6228.3	30°	6383.7	5724.3	3072.1	959.7	698.8	663.0	605.8	563.0	554.0	555.8
6524.9	32.5°	6630.4	5745.7	2621.8	786.4	652.3	588.0	520.1	475.4	468.2	475.4
6957.4	35°	6925.3	5788.6	2187.5	723.8	611.2	511.1	437.9	400.3	393.2	398.5
7511.4	37.5°	7325.6	5858.3	1781.8	711.3	577.3	446.8	368.2	337.8	337.8	339.6
8190.6	40°	7858.1	6044.2	1419.0	702.4	559.4	398.5	311.0	298.5	303.8	307.4
9055.5	42.5°	8506.9	6439.1	1174.2	691.6	539.7	377.1	282.4	277.0	285.9	289.5
10092.1	45°	9234.3	6939.5	1088.4	673.8	521.9	391.4	269.9	262.7	273.4	275.2
11253.8	47.5°	9986.7	7429.2	1077.7	654.1	504.0	412.8	266.3	250.2	262.7	264.5
12494.0	50°	10748.0	7749.1	1088.4	623.7	475.4	412.8	268.1	237.7	248.4	253.8
13780.8	52.5°	11514.7	7895.7	1081.2	557.6	425.3	387.8	268.1	227.0	237.7	241.3
15171.2	55°	12258.1	7867.1	972.2	459.3	361.0	343.1	260.9	218.0	225.2	227.0
16484.8	57.5°	12846.1	7468.5	770.3	357.4	293.1	285.9	237.7	207.3	212.7	210.9
17689.3	60°	13153.5	6592.8	550.4	275.2	230.5	225.2	209.1	193.0	196.6	187.7
18709.8	62.5°	13157.1	5434.8	368.2	218.0	184.1	178.7	178.7	173.4	169.8	151.9
19499.7	65°	12876.5	4149.8	244.8	173.4	148.3	139.4	150.1	148.3	135.8	110.8
19741.0	67.5°	12240.3	2720.1	185.9	135.8	114.4	109.0	119.7	125.1	116.2	92.9
18861.7	70°	10932.1	1583.4	153.7	105.4	85.8	80.4	96.5	107.2	96.5	75.1
16122.0	72.5°	9080.6	854.3	125.1	78.6	59.0	53.6	76.8	87.6	76.8	55.4
10344.1	75°	5892.3	457.5	96.5	51.8	30.4	34.0	57.2	64.3	53.6	35.7
3036.4	77.5°	1978.4	201.9	60.8	25.0	14.3	14.3	34.0	39.3	25.0	12.5
552.2	80°	441.4	84.0	25.0	10.7	5.4	5.4	7.1	7.1	3.6	0.0
169.8	82.5°	144.8	34.0	10.7	3.6	0.0	0.0	0.0	0.0	0.0	0.0
42.9	85°	55.4	12.5	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.3	87.5°	21.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
4414.3
4355.3
3829.9
3047.1
2046.3
1231.4
913.2
856.1
816.7
763.1
693.4
625.5
555.8
473.6
396.7
337.8
307.4
289.5
277.0
266.3
255.6
241.3
227.0
210.9
185.9
146.5
107.2
91.1
71.5
53.6
32.2
10.7
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