

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: P942195

Luminaire Tested: **GALN-SB6A-830-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942195
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB6A-830-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24219 lumens
Efficiency: N/A
Efficacy: 141.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

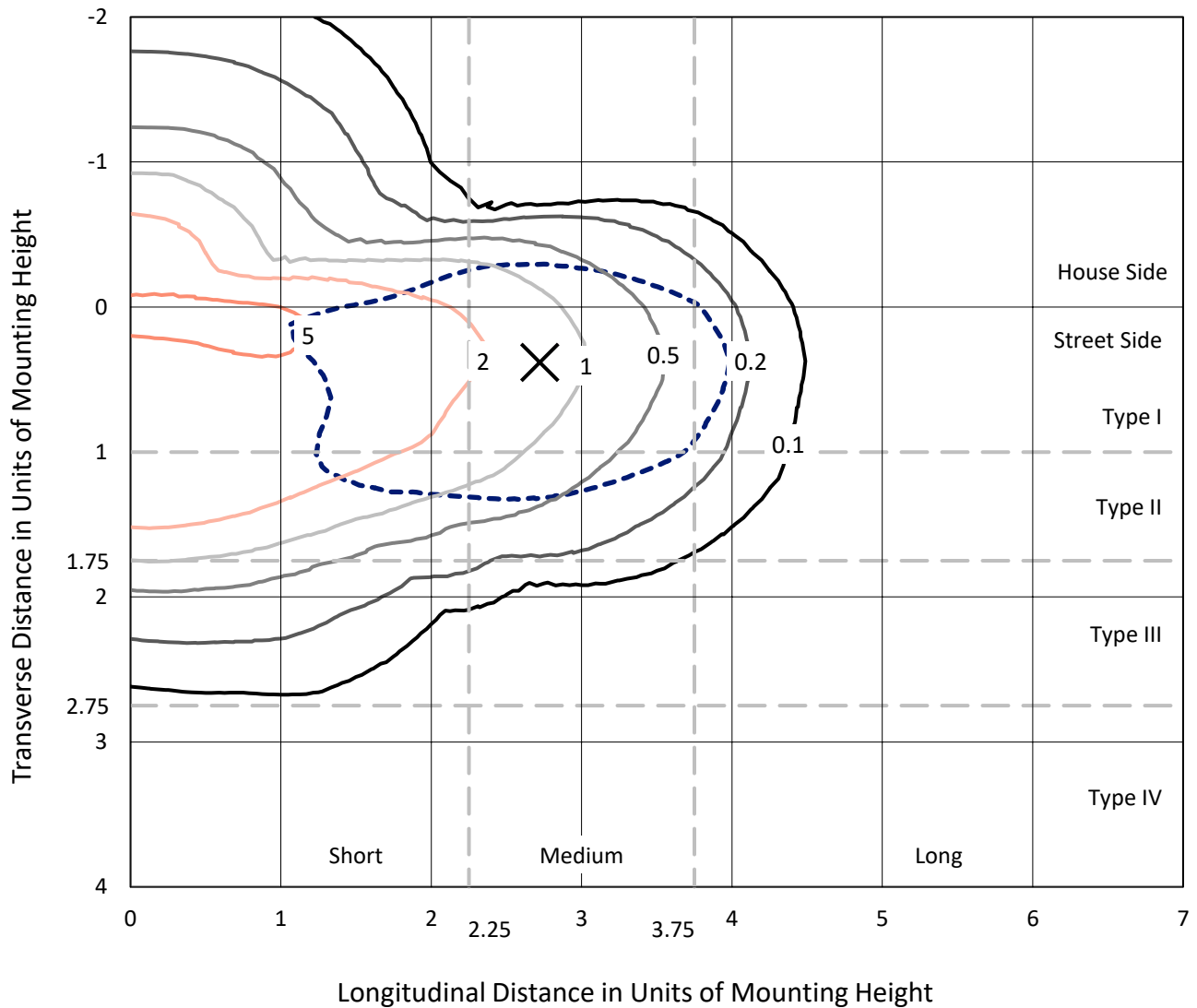
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

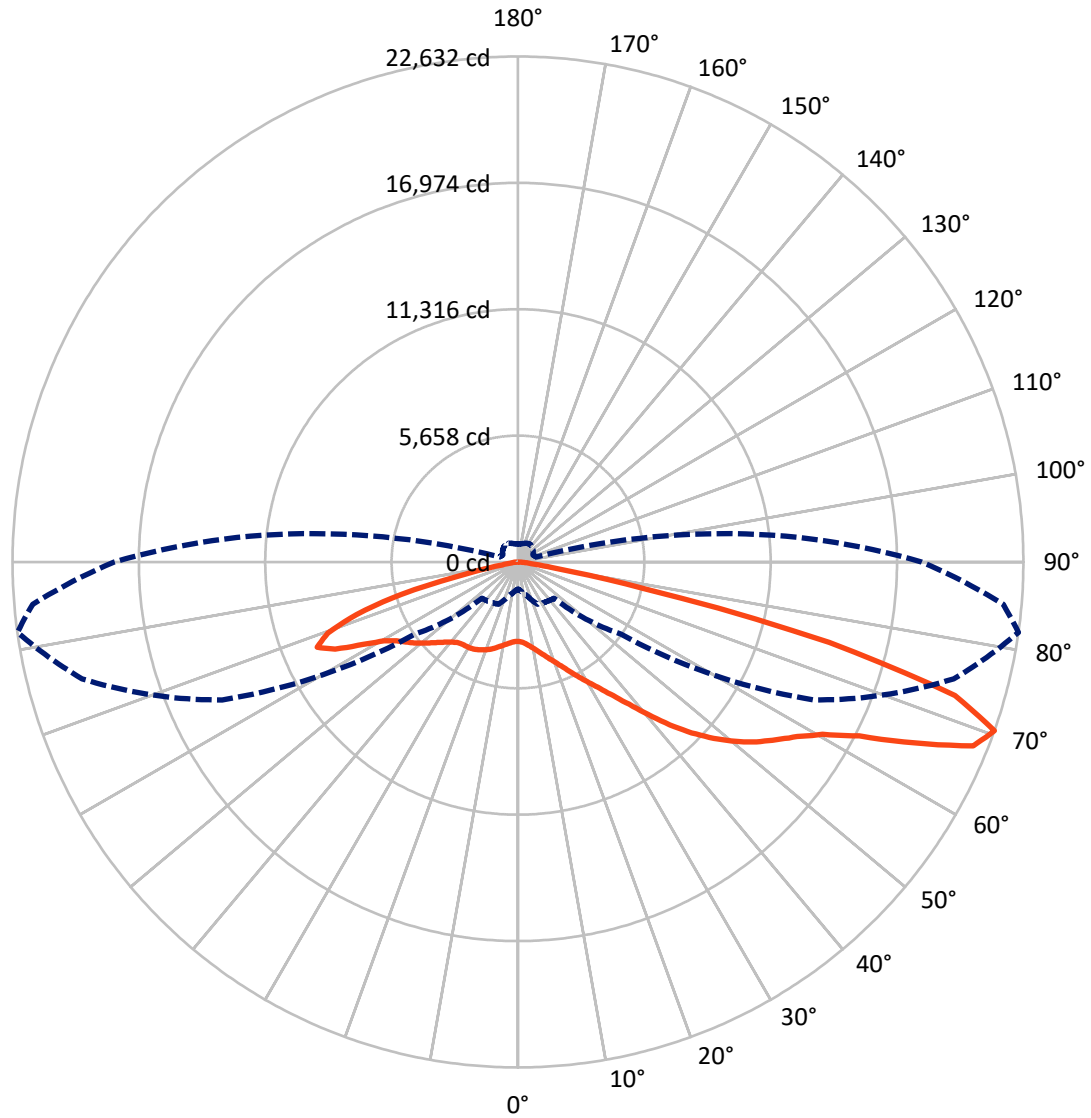
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5970.6	0.0	5970.6
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	18248.4	0.0	18248.4
	% Fixture	75.3	0.0	75.3
Total	Lumens	24219.0	0.0	24219.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.3	1.4
10°-20°	963.2	4.0
20°-30°	1611.4	6.7
30°-40°	2517.4	10.4
40°-50°	4009.2	16.6
50°-60°	5579.3	23.0
60°-70°	5836.2	24.1
70°-80°	3050.3	12.6
80°-90°	316.7	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°	24219.0	100.0
0°-180°	24219.0	100.0

Coefficient of Utilization



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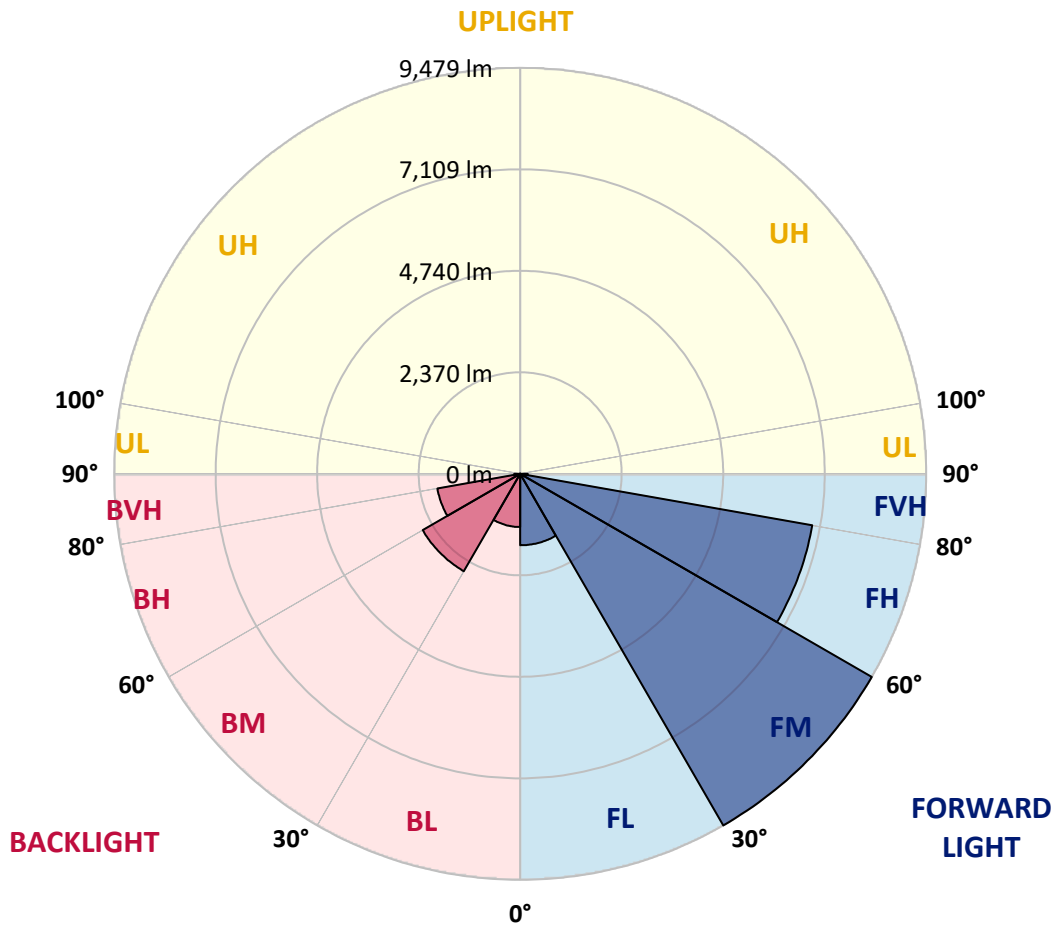
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1667.7	6.9			
FM (30°-60°)	9479.1	39.1			
FH (60°-80°)	6924.3	28.6			G3/7500
FVH (80°-90°)	177.3	0.7			G2/225
BL (0°-30°)	1242.1	5.1	B3/2500		
BM (30°-60°)	2626.8	10.8	B3/5000		
BH (60°-80°)	1962.2	8.1	B3/2500		G3/2500
BVH (80°-90°)	139.4	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3550.8	3550.8	3550.8	3550.8	3550.8	3550.8	3550.8	3550.8	3550.8	3550.8
2.5°	3635.6	3656.2	3649.8	3643.3	3643.3	3634.3	3633.1	3620.2	3609.9	3593.2
5°	3681.9	3703.7	3701.2	3706.3	3723.0	3726.9	3730.7	3723.0	3702.5	3681.9
7.5°	3640.8	3665.2	3672.9	3703.7	3755.1	3801.4	3836.1	3850.2	3831.0	3801.4
10°	3502.0	3529.0	3555.9	3629.2	3720.4	3829.7	3922.2	3977.5	3973.6	3945.3
12.5°	3220.5	3248.8	3306.6	3449.3	3616.3	3809.1	3981.3	4097.0	4136.8	4116.3
15°	2995.6	3020.1	3063.7	3210.2	3427.4	3720.4	4003.2	4228.1	4329.6	4318.0
17.5°	2989.2	2999.5	3026.5	3095.9	3262.9	3581.7	3980.0	4356.6	4550.6	4549.4
20°	3102.3	3106.2	3121.6	3135.7	3230.8	3476.3	3920.9	4463.2	4798.7	4798.7
22.5°	3259.1	3256.5	3271.9	3259.1	3305.3	3467.3	3883.7	4557.1	5075.0	5095.5
25°	3494.3	3481.4	3477.6	3448.0	3457.0	3550.8	3924.8	4663.7	5402.7	5445.1
27.5°	3807.8	3787.3	3773.1	3705.0	3681.9	3723.0	4050.7	4792.2	5767.7	5840.9
30°	4216.5	4179.2	4158.7	4040.4	3956.9	3963.3	4240.9	4963.2	6149.3	6267.6
32.5°	4774.2	4716.4	4661.2	4467.1	4314.2	4264.1	4486.4	5199.6	6563.1	6752.1
35°	5398.8	5352.6	5293.4	4994.0	4758.8	4643.2	4817.9	5529.9	7047.6	7347.1
37.5°	6000.3	5960.4	5988.7	5585.2	5281.9	5113.5	5252.3	5973.3	7645.2	8087.3
40°	6622.3	6591.4	6595.3	6209.7	5856.3	5667.4	5779.2	6529.7	8330.2	8967.6
42.5°	7298.2	7275.1	7198.0	6856.2	6459.1	6283.0	6385.8	7172.3	9065.3	9970.0
45°	8055.2	8041.0	7969.1	7577.1	7122.2	6924.3	7063.1	7881.7	9804.2	10913.3
47.5°	8709.3	8720.9	8711.9	8381.6	7910.0	7619.5	7785.3	8621.9	10491.8	11800.0
50°	9024.2	9084.6	9173.2	9070.4	8777.4	8481.8	8514.0	9336.5	11147.2	12631.5
52.5°	8859.7	8974.0	9215.7	9380.1	9493.2	9431.6	9345.4	10045.8	11764.1	13382.0
55°	8246.7	8407.3	8808.3	9205.4	9782.4	10230.9	10344.0	10832.3	12365.5	14042.6
57.5°	7129.9	7390.8	7750.6	8553.8	9525.4	10617.7	11508.3	11923.4	13002.9	14748.1
60°	5215.0	5564.6	6011.8	7207.0	8625.8	10410.8	12499.2	13599.2	13908.9	15661.9
62.5°	3337.5	3553.4	3964.6	5090.4	6721.2	9350.6	12802.4	15694.0	15444.7	17160.3
65°	2285.0	2423.8	2800.3	3432.6	4345.0	6960.3	11990.2	17264.4	17883.8	19535.2
67.5°	1660.4	1765.8	2087.0	2640.9	2831.1	4118.8	9304.3	17192.4	20254.9	21982.1
70°	1210.6	1285.1	1555.0	2087.0	2178.3	2291.4	5636.6	14614.5	20203.5	22632.4
72.5°	897.0	948.4	1129.6	1619.3	1763.2	1547.3	2790.0	10621.6	17360.8	20470.8
75°	649.0	687.5	821.2	1238.9	1411.1	1178.5	1391.8	6207.2	12109.8	14399.9
77.5°	496.1	525.6	613.0	907.3	1129.6	884.2	863.6	2855.6	5742.0	5770.2
80°	398.4	417.7	465.2	638.7	866.2	661.8	562.9	1152.8	1814.6	1535.7
82.5°	293.0	325.1	393.2	448.5	619.4	456.2	343.1	582.2	690.1	593.7
85°	167.1	188.9	237.7	321.3	395.8	278.9	196.6	258.3	321.3	263.5
87.5°	59.1	77.1	83.5	125.9	172.2	115.7	75.8	74.5	105.4	78.4
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°
3550.8	0°	3550.8	3550.8	3550.8	3550.8	3550.8	3550.8	3550.8	3550.8	3550.8	3550.8
3589.4	2.5°	3576.5	3570.1	3544.4	3509.7	3473.7	3439.0	3427.4	3403.0	3386.3	3377.3
3672.9	5°	3648.5	3627.9	3567.5	3490.4	3409.4	3322.1	3260.4	3203.8	3162.7	3124.1
3787.3	7.5°	3751.3	3715.3	3611.2	3476.3	3332.3	3187.1	3079.2	2996.9	2941.7	2905.7
3920.9	10°	3870.8	3815.5	3656.2	3454.4	3232.1	3023.9	2896.7	2826.0	2791.3	2772.0
4073.9	12.5°	4008.3	3929.9	3702.5	3404.3	3079.2	2841.4	2754.0	2733.5	2734.8	2736.0
4266.6	15°	4178.0	4068.7	3739.7	3295.1	2880.0	2701.3	2685.9	2719.3	2754.0	2770.7
4485.1	17.5°	4369.4	4215.2	3746.1	3115.1	2684.6	2611.4	2660.2	2732.2	2784.9	2808.0
4729.3	20°	4575.1	4364.3	3699.9	2860.7	2524.0	2538.1	2625.5	2718.0	2775.9	2805.4
5008.1	22.5°	4810.2	4523.7	3589.4	2593.4	2392.9	2458.4	2561.3	2651.2	2711.6	2741.2
5335.9	25°	5078.8	4702.3	3415.9	2368.5	2279.8	2368.5	2471.3	2545.8	2594.7	2621.7
5702.1	27.5°	5377.0	4888.6	3184.5	2189.9	2180.9	2276.0	2360.8	2418.6	2444.3	2464.9
6091.5	30°	5676.4	5058.3	2904.4	2054.9	2094.8	2184.7	2245.1	2270.8	2278.5	2282.4
6525.9	32.5°	6000.3	5204.8	2610.1	1943.1	2012.5	2096.0	2132.0	2143.6	2107.6	2083.2
7052.8	35°	6392.2	5361.6	2322.2	1854.4	1931.5	2003.5	2015.1	2004.8	1962.4	1912.3
7713.3	37.5°	6876.7	5556.9	2092.2	1791.5	1855.7	1903.3	1889.1	1886.6	1890.4	1831.3
8507.5	40°	7470.4	5811.3	1923.8	1742.6	1794.0	1804.3	1764.5	1786.3	1805.6	1715.6
9378.9	42.5°	8129.7	6118.5	1817.2	1709.2	1742.6	1718.2	1656.5	1680.9	1678.4	1560.1
10254.0	45°	8801.8	6452.6	1779.9	1684.8	1695.1	1646.2	1578.1	1584.6	1530.6	1423.9
11093.2	47.5°	9470.1	6811.2	1803.0	1664.2	1636.0	1580.7	1528.0	1499.7	1420.1	1340.4
11897.7	50°	10125.5	7187.7	1887.9	1623.1	1555.0	1522.9	1484.3	1434.2	1349.4	1281.3
12658.5	52.5°	10733.4	7566.8	1983.0	1555.0	1453.5	1472.8	1448.3	1390.5	1307.0	1237.6
13378.2	55°	11309.1	7945.9	2020.2	1461.2	1358.4	1429.1	1414.9	1308.3	1208.0	1151.5
14131.3	57.5°	11936.3	8402.2	1979.1	1341.7	1281.3	1378.9	1325.0	1206.7	1148.9	1106.5
15111.8	60°	12805.0	9118.0	1890.4	1193.9	1208.0	1304.4	1211.9	1163.0	1100.1	1052.5
16582.0	62.5°	14248.2	10453.2	1747.8	1047.4	1121.9	1193.9	1157.9	1109.1	1044.8	998.5
19095.7	65°	16381.5	12309.0	1479.2	933.0	1025.5	1085.9	1100.1	1051.2	984.4	935.6
21298.4	67.5°	18180.7	13473.3	1119.3	837.9	926.6	998.5	1038.4	990.8	920.2	872.6
21813.8	70°	18081.7	12627.7	854.6	744.1	839.2	912.4	963.8	926.6	850.8	805.8
19814.1	72.5°	16060.2	10563.8	691.4	649.0	750.5	822.5	884.2	855.9	778.8	735.1
14515.5	75°	11798.8	7498.7	552.6	552.6	640.0	728.7	796.8	778.8	708.1	677.3
6094.1	77.5°	4973.4	3146.0	433.1	458.8	532.0	625.9	710.7	717.1	655.4	694.0
1611.6	80°	1322.4	867.5	330.3	361.1	417.7	516.6	618.1	615.6	548.7	512.8
598.9	82.5°	503.8	341.8	235.2	254.5	302.0	395.8	489.6	505.1	438.2	379.1
235.2	85°	194.1	146.5	145.2	152.9	176.1	262.2	370.1	383.0	330.3	280.2
65.5	87.5°	50.1	43.7	54.0	51.4	81.0	140.1	212.0	219.8	201.8	116.9
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>
3550.8
3387.6
3139.6
2913.4
2777.2
2738.6
2769.5
2813.1
2813.1
2748.9
2629.4
2472.6
2291.4
2090.9
1914.8
1835.2
1718.2
1558.9
1427.8
1340.4
1276.1
1238.9
1146.3
1102.6
1049.9
998.5
938.1
873.9
809.6
735.1
668.3
629.7
476.8
379.1
289.2
167.1
0.0

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