

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: P941685

Luminaire Tested: **GALN-SB5B-830-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941685
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-SB5B-830-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25325 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

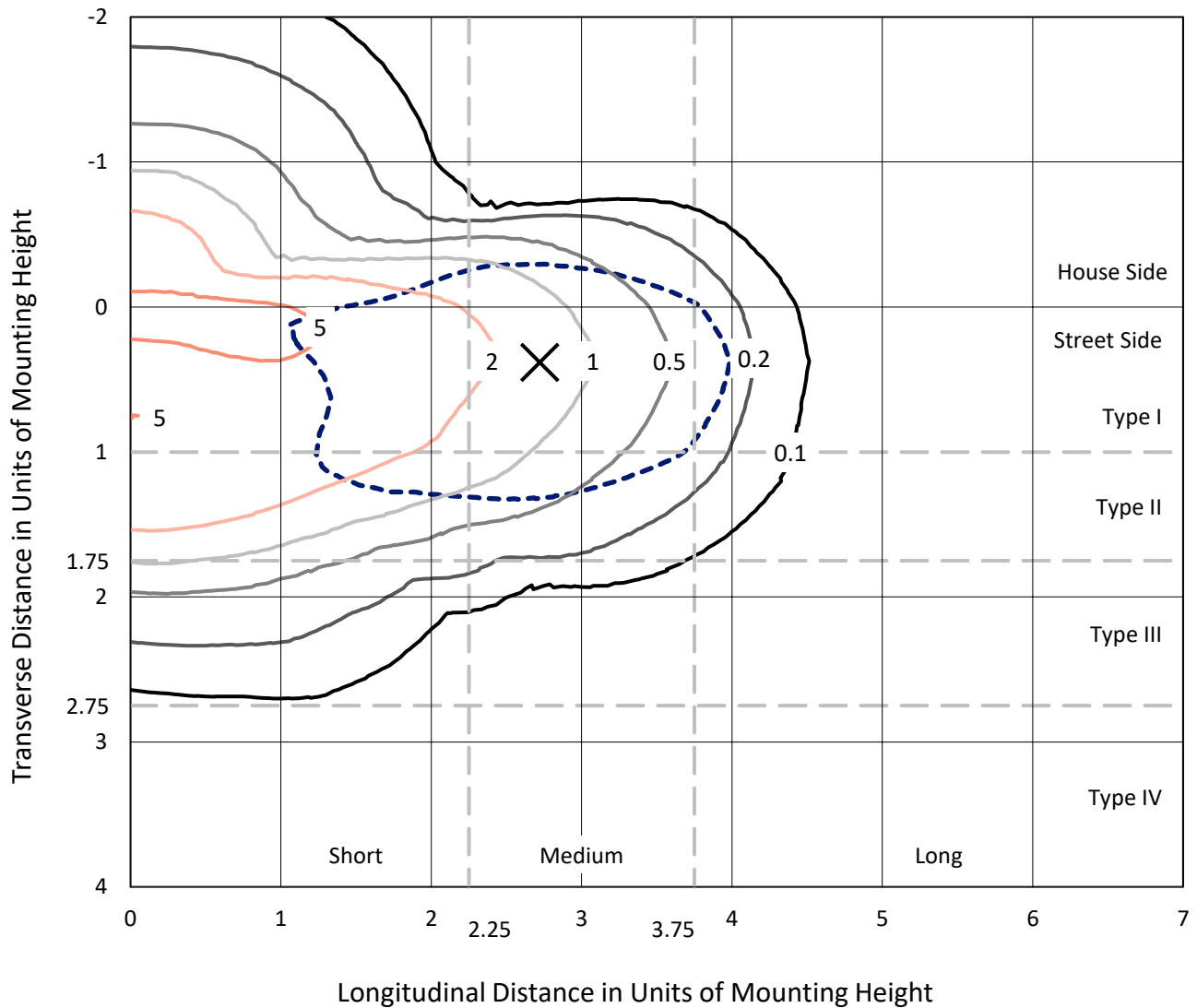
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

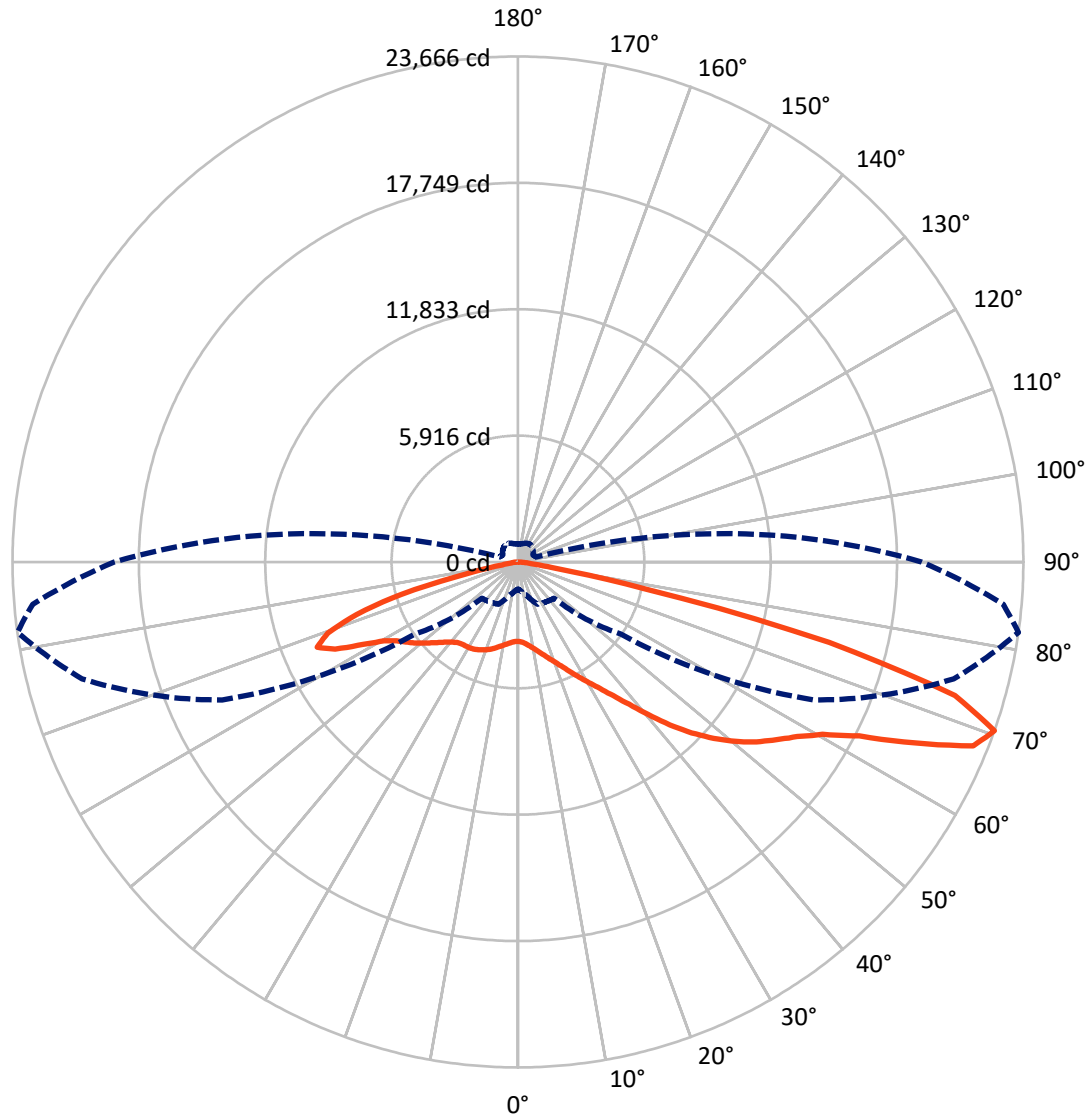
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	6243.2	0.0	6243.2
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	19081.8	0.0	19081.8
	% Fixture	75.3	0.0	75.3
Total	Lumens	25325.0	0.0	25325.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.6	1.4
10°-20°	1007.2	4.0
20°-30°	1685.0	6.7
30°-40°	2632.3	10.4
40°-50°	4192.3	16.6
50°-60°	5834.1	23.0
60°-70°	6102.7	24.1
70°-80°	3189.6	12.6
80°-90°	331.2	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°	25325.0	100.0
0°-180°	25325.0	100.0

Coefficient of Utilization



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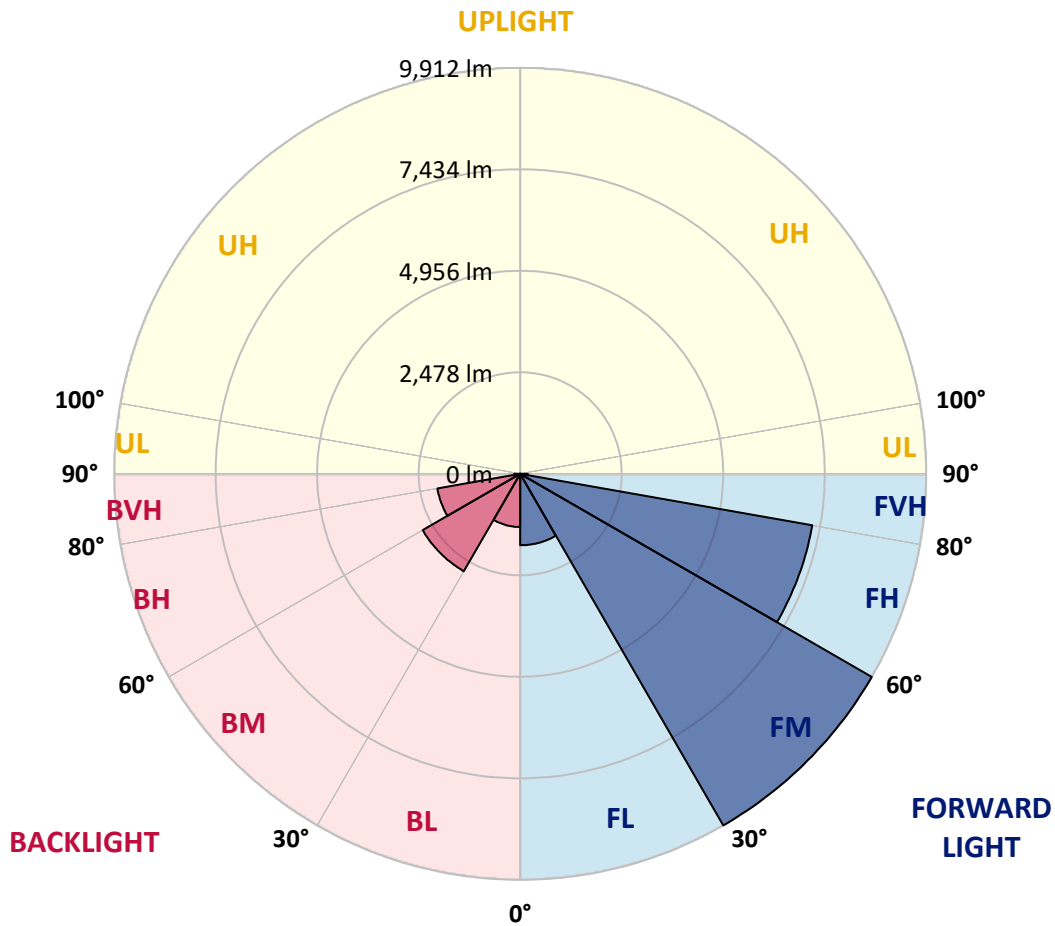
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1743.9	6.9			
FM (30°-60°)	9912.0	39.1			
FH (60°-80°)	7240.5	28.6			G3/7500
FVH (80°-90°)	185.4	0.7			G2/225
BL (0°-30°)	1298.8	5.1	B3/2500		
BM (30°-60°)	2746.8	10.8	B3/5000		
BH (60°-80°)	2051.8	8.1	B3/2500		G3/2500
BVH (80°-90°)	145.8	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°	3713.0	3713.0	3713.0	3713.0	3713.0	3713.0	3713.0	3713.0	3713.0	3713.0
2.5°	3801.7	3823.2	3816.4	3809.7	3809.7	3800.3	3799.0	3785.5	3774.8	3757.3
5°	3850.0	3872.9	3870.2	3875.6	3893.0	3897.1	3901.1	3893.0	3871.5	3850.0
7.5°	3807.0	3832.6	3840.6	3872.9	3926.6	3975.0	4011.3	4026.1	4005.9	3975.0
10°	3661.9	3690.1	3718.3	3794.9	3890.3	4004.6	4101.3	4159.1	4155.1	4125.5
12.5°	3367.6	3397.2	3457.6	3606.8	3781.5	3983.1	4163.1	4284.1	4325.7	4304.2
15°	3132.4	3158.0	3203.7	3356.9	3584.0	3890.3	4186.0	4421.2	4527.3	4515.2
17.5°	3125.7	3136.5	3164.7	3237.3	3411.9	3745.2	4161.8	4555.5	4758.4	4757.1
20°	3244.0	3248.0	3264.1	3278.9	3378.4	3635.0	4100.0	4667.1	5017.8	5017.8
22.5°	3407.9	3405.2	3421.4	3407.9	3456.3	3625.6	4061.0	4765.2	5306.7	5328.2
25°	3653.8	3640.4	3636.4	3605.5	3614.9	3713.0	4104.0	4876.7	5649.4	5693.7
27.5°	3981.7	3960.2	3945.4	3874.2	3850.0	3893.0	4235.7	5011.1	6031.0	6107.6
30°	4409.1	4370.1	4348.6	4225.0	4137.6	4144.3	4434.6	5189.8	6430.2	6553.8
32.5°	4992.3	4931.8	4874.0	4671.1	4511.2	4458.8	4691.3	5437.1	6862.9	7060.4
35°	5645.4	5597.0	5535.2	5222.1	4976.1	4855.2	5038.0	5782.4	7369.5	7682.6
37.5°	6274.3	6232.6	6262.2	5840.2	5523.1	5347.0	5492.2	6246.1	7994.4	8456.6
40°	6924.7	6892.4	6896.5	6493.3	6123.8	5926.2	6043.1	6827.9	8710.6	9377.1
42.5°	7631.5	7607.3	7526.7	7169.3	6754.0	6569.9	6677.4	7499.8	9479.3	10425.3
45°	8423.0	8408.3	8333.0	7923.1	7447.4	7240.5	7385.6	8241.6	10252.0	11411.7
47.5°	9107.0	9119.1	9109.7	8764.4	8271.2	7967.5	8140.8	9015.7	10970.9	12338.9
50°	9436.3	9499.4	9592.2	9484.6	9178.3	8869.2	8902.8	9762.8	11656.3	13208.4
52.5°	9264.3	9383.9	9636.5	9808.5	9926.8	9862.3	9772.2	10504.6	12301.3	13993.1
55°	8623.3	8791.2	9210.5	9625.7	10229.1	10698.1	10816.4	11327.0	12930.2	14683.9
57.5°	7455.5	7728.3	8104.6	8944.4	9960.4	11102.6	12033.9	12467.9	13596.7	15421.6
60°	5453.2	5818.7	6286.4	7536.1	9019.7	10886.2	13069.9	14220.3	14544.1	16377.1
62.5°	3489.9	3715.6	4145.7	5322.9	7028.2	9777.6	13387.1	16410.7	16150.0	17944.0
65°	2389.3	2534.4	2928.2	3589.3	4543.4	7278.1	12537.8	18052.8	18700.5	20427.3
67.5°	1736.2	1846.4	2182.4	2761.5	2960.4	4306.9	9729.2	17977.6	21179.9	22986.0
70°	1265.9	1343.8	1626.0	2182.4	2277.8	2396.0	5894.0	15281.9	21126.1	23665.9
72.5°	938.0	991.7	1181.2	1693.2	1843.7	1618.0	2917.4	11106.6	18153.6	21405.6
75°	678.6	718.9	858.7	1295.4	1475.5	1232.3	1455.4	6490.6	12662.8	15057.5
77.5°	518.7	549.6	641.0	948.7	1181.2	924.5	903.0	2986.0	6004.2	6033.7
80°	416.6	436.7	486.5	667.9	905.7	692.1	588.6	1205.4	1897.5	1605.9
82.5°	306.4	340.0	411.2	469.0	647.7	477.1	358.8	608.7	721.6	620.8
85°	174.7	197.5	248.6	336.0	413.9	291.6	205.6	270.1	336.0	275.5
87.5°	61.8	80.6	87.3	131.7	180.1	120.9	79.3	77.9	110.2	82.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3713.0	0°	3713.0	3713.0	3713.0	3713.0	3713.0	3713.0	3713.0	3713.0	3713.0	3713.0
3753.3	2.5°	3739.8	3733.1	3706.2	3670.0	3632.3	3596.0	3584.0	3558.4	3541.0	3531.5
3840.6	5°	3815.1	3793.6	3730.4	3649.8	3565.1	3473.8	3409.3	3350.1	3307.1	3266.8
3960.2	7.5°	3922.6	3885.0	3776.1	3635.0	3484.5	3332.7	3219.8	3133.8	3076.0	3038.4
4100.0	10°	4047.6	3989.8	3823.2	3612.2	3379.7	3162.0	3029.0	2955.0	2918.8	2898.6
4259.9	12.5°	4191.4	4109.4	3871.5	3559.8	3219.8	2971.2	2879.8	2858.3	2859.6	2861.0
4461.5	15°	4368.7	4254.5	3910.5	3445.5	3011.5	2824.7	2808.6	2843.5	2879.8	2897.3
4689.9	17.5°	4569.0	4407.7	3917.2	3257.4	2807.2	2730.6	2781.7	2857.0	2912.0	2936.2
4945.2	20°	4784.0	4563.6	3868.8	2991.3	2639.3	2654.0	2745.4	2842.2	2902.6	2933.5
5236.8	22.5°	5029.9	4730.2	3753.3	2711.8	2502.2	2570.7	2678.2	2772.3	2835.5	2866.4
5579.5	25°	5310.8	4917.0	3571.9	2476.7	2383.9	2476.7	2584.2	2662.1	2713.2	2741.4
5962.5	27.5°	5622.5	5111.9	3330.0	2289.9	2280.5	2379.9	2468.6	2529.1	2555.9	2577.4
6369.7	30°	5935.6	5289.3	3037.0	2148.8	2190.4	2284.5	2347.6	2374.5	2382.6	2386.6
6823.9	32.5°	6274.3	5442.5	2729.3	2031.8	2104.4	2191.8	2229.4	2241.5	2203.9	2178.3
7374.9	35°	6684.1	5606.4	2428.3	1939.1	2019.8	2095.0	2107.1	2096.4	2052.0	1999.6
8065.6	37.5°	7190.8	5810.7	2187.7	1873.3	1940.5	1990.2	1975.4	1972.7	1976.8	1914.9
8896.1	40°	7811.6	6076.7	2011.7	1822.2	1876.0	1886.7	1845.1	1867.9	1888.1	1794.0
9807.2	42.5°	8501.0	6397.9	1900.2	1787.3	1822.2	1796.7	1732.2	1757.7	1755.0	1631.4
10722.3	45°	9203.8	6747.3	1861.2	1761.7	1772.5	1721.4	1650.2	1656.9	1600.5	1488.9
11599.8	47.5°	9902.6	7122.2	1885.4	1740.2	1710.7	1652.9	1597.8	1568.2	1484.9	1401.6
12441.0	50°	10587.9	7516.0	1974.1	1697.2	1626.0	1592.4	1552.1	1499.7	1411.0	1339.8
13236.6	52.5°	11223.5	7912.4	2073.5	1626.0	1519.9	1540.0	1514.5	1454.0	1366.7	1294.1
13989.1	55°	11825.6	8308.8	2112.5	1527.9	1420.4	1494.3	1479.5	1368.0	1263.2	1204.1
14776.6	57.5°	12481.4	8785.9	2069.5	1402.9	1339.8	1441.9	1385.5	1261.8	1201.4	1157.0
15801.9	60°	13389.8	9534.4	1976.8	1248.4	1263.2	1364.0	1267.2	1216.2	1150.3	1100.6
17339.2	62.5°	14898.9	10930.6	1827.6	1095.2	1173.2	1248.4	1210.8	1159.7	1092.5	1044.1
19967.8	65°	17129.6	12871.1	1546.7	975.6	1072.4	1135.5	1150.3	1099.2	1029.4	978.3
22271.1	67.5°	19011.0	14088.6	1170.5	876.2	968.9	1044.1	1085.8	1036.1	962.2	912.5
22809.9	70°	18907.5	13204.3	893.6	778.1	877.5	954.1	1007.9	968.9	889.6	842.6
20718.9	72.5°	16793.7	11046.2	723.0	678.6	784.8	860.0	924.5	895.0	814.4	768.7
15178.4	75°	12337.6	7841.2	577.8	577.8	669.2	761.9	833.2	814.4	740.4	708.2
6372.4	77.5°	5200.6	3289.7	452.9	479.7	556.3	654.4	743.1	749.8	685.3	725.7
1685.1	80°	1382.8	907.1	345.4	377.6	436.7	540.2	646.4	643.7	573.8	536.2
626.2	82.5°	526.8	357.5	245.9	266.1	315.8	413.9	512.0	528.1	458.2	396.4
245.9	85°	202.9	153.2	151.9	159.9	184.1	274.1	387.0	400.5	345.4	293.0
68.5	87.5°	52.4	45.7	56.4	53.8	84.7	146.5	221.7	229.8	211.0	122.3
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>
3713.0
3542.3
3282.9
3046.4
2904.0
2863.7
2895.9
2941.6
2941.6
2874.4
2749.4
2585.5
2396.0
2186.4
2002.3
1919.0
1796.7
1630.0
1493.0
1401.6
1334.4
1295.4
1198.7
1153.0
1097.9
1044.1
981.0
913.8
846.6
768.7
698.8
658.5
498.6
396.4
302.4
174.7
0.0

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