

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: P941005

Luminaire Tested: **GALN-SB4B-830-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941005
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-SB4B-830-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 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: 20093 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

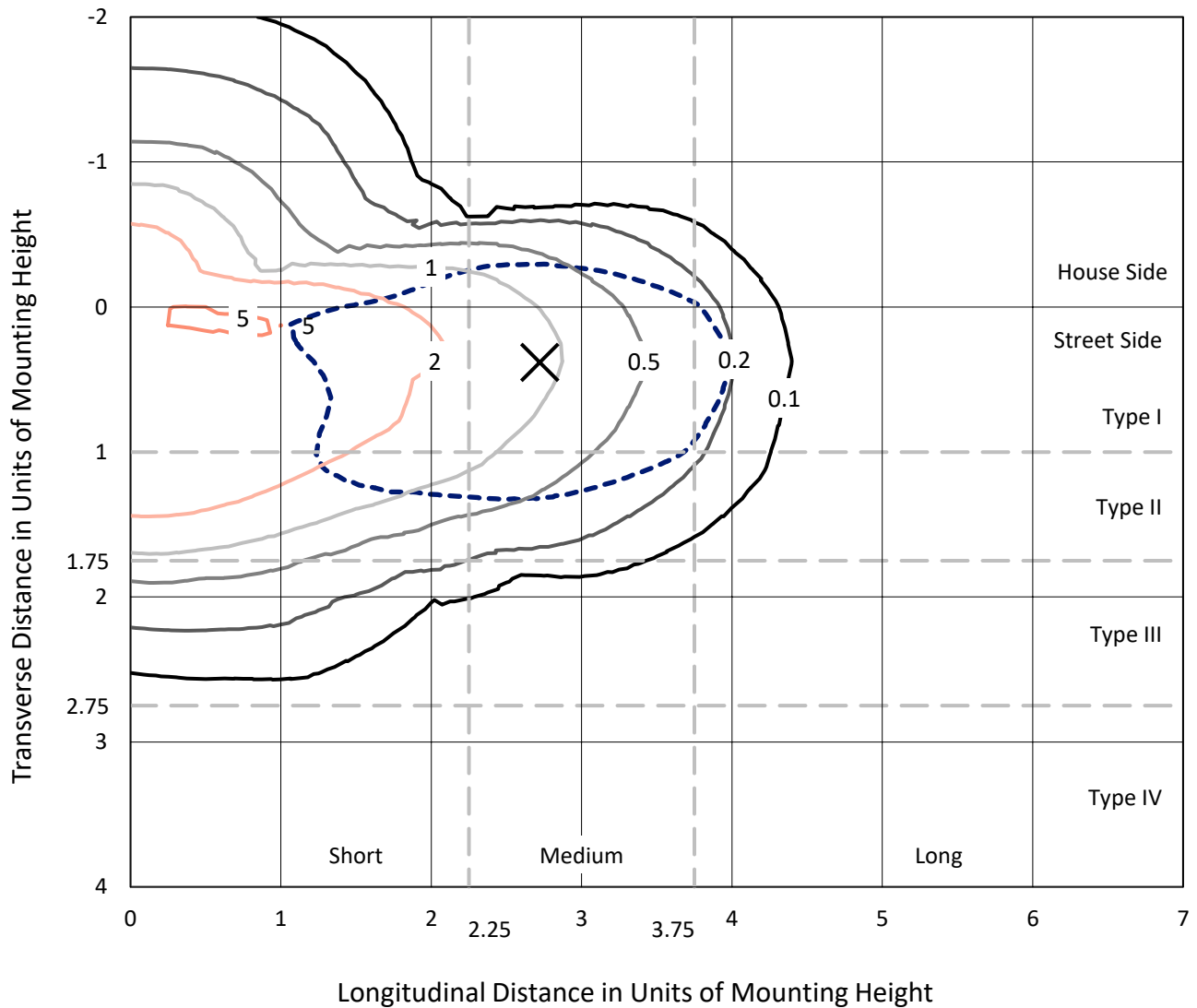
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

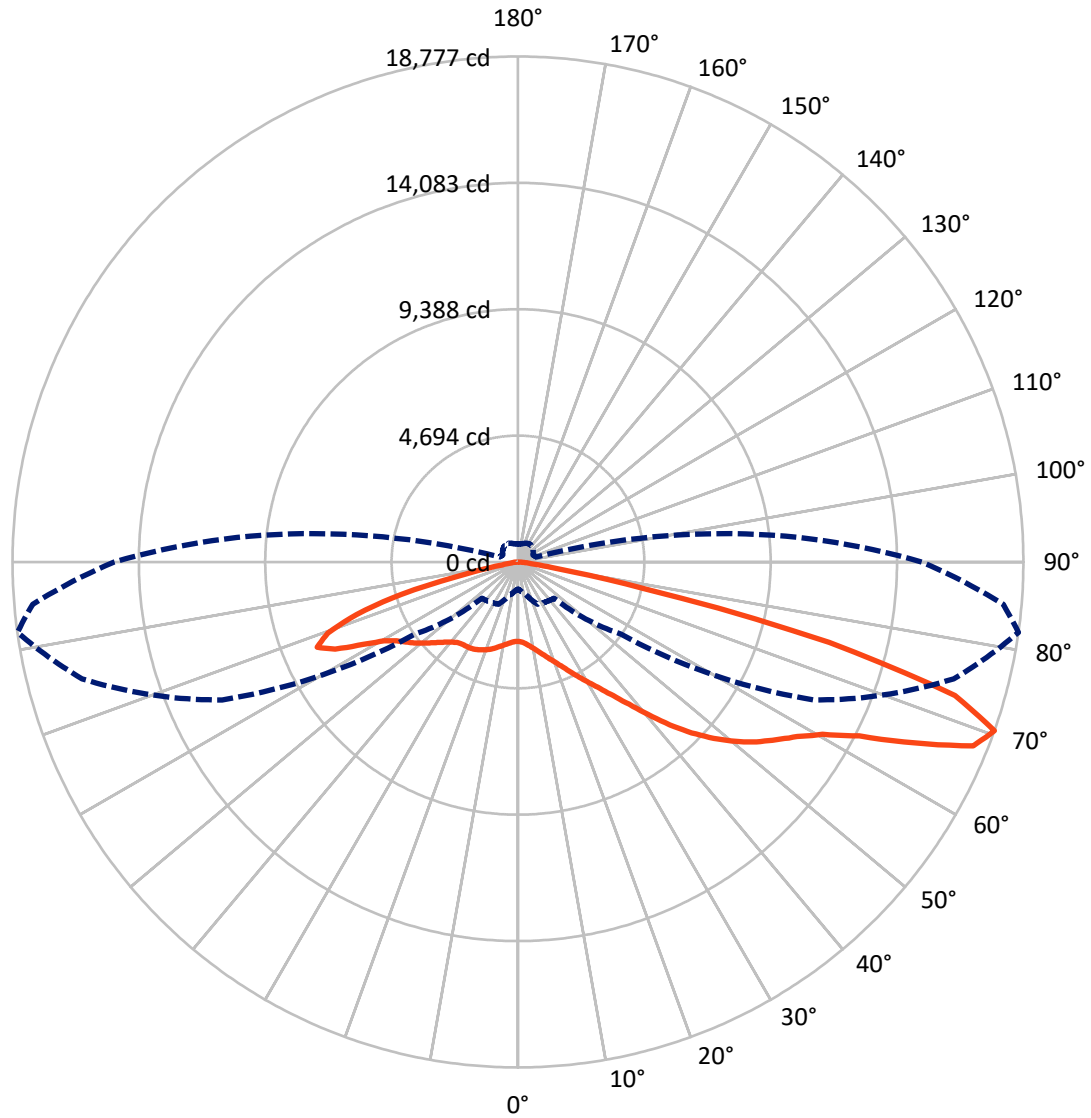
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	4953.4	0.0	4953.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	15139.6	0.0	15139.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	20093.0	0.0	20093.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.1	1.4
10°-20°	799.1	4.0
20°-30°	1336.9	6.7
30°-40°	2088.5	10.4
40°-50°	3326.2	16.6
50°-60°	4628.8	23.0
60°-70°	4841.9	24.1
70°-80°	2530.7	12.6
80°-90°	262.8	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°	20093.0	100.0
0°-180°	20093.0	100.0

Coefficient of Utilization



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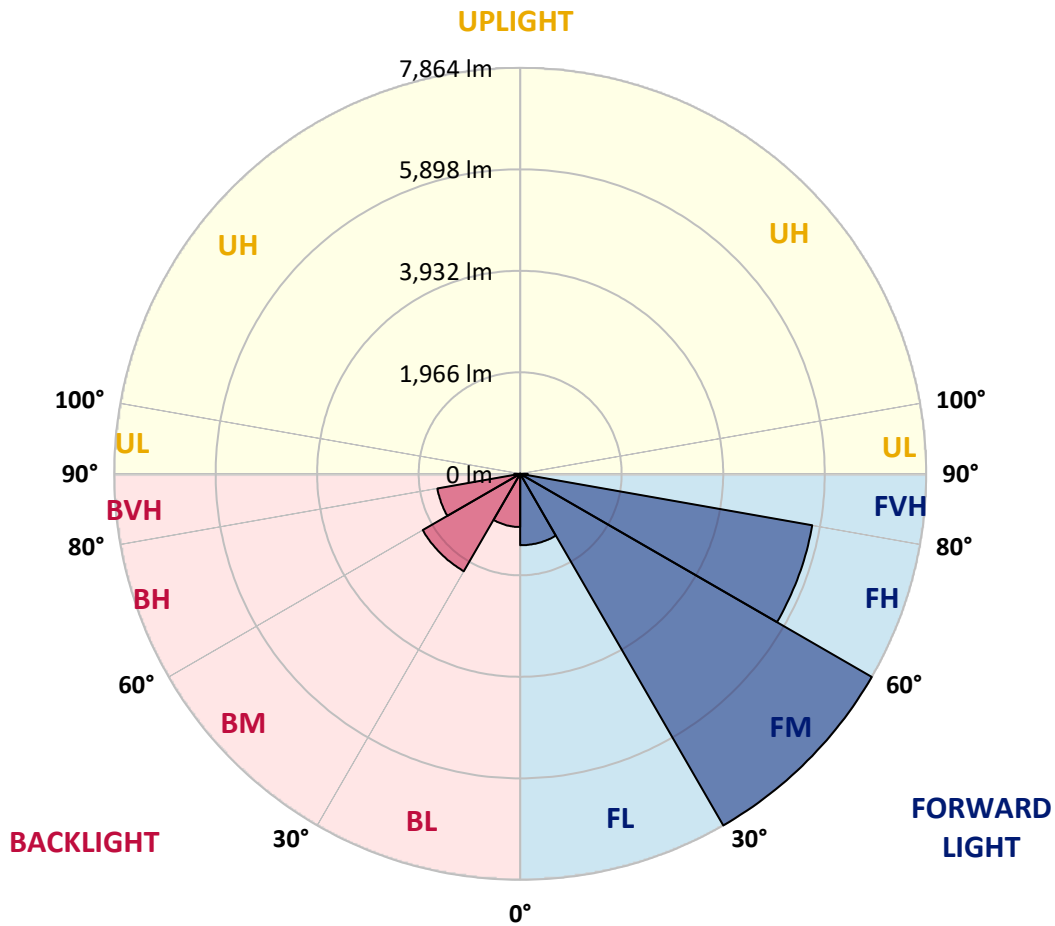
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1383.6	6.9			
FM (30°-60°)	7864.2	39.1			
FH (60°-80°)	5744.7	28.6			G3/7500
FVH (80°-90°)	147.1	0.7			G2/225
BL (0°-30°)	1030.5	5.1	B3/2500		
BM (30°-60°)	2179.3	10.8	B2/2500		
BH (60°-80°)	1627.9	8.1	B3/2500		G3/2500
BVH (80°-90°)	115.7	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°	2945.9	2945.9	2945.9	2945.9	2945.9	2945.9	2945.9	2945.9	2945.9	2945.9
2.5°	3016.3	3033.3	3028.0	3022.7	3022.7	3015.2	3014.1	3003.5	2994.9	2981.1
5°	3054.6	3072.8	3070.6	3074.9	3088.8	3092.0	3095.2	3088.8	3071.7	3054.6
7.5°	3020.5	3040.8	3047.2	3072.8	3115.4	3153.8	3182.6	3194.3	3178.3	3153.8
10°	2905.4	2927.8	2950.1	3010.9	3086.6	3177.2	3254.0	3299.9	3296.7	3273.2
12.5°	2671.9	2695.3	2743.3	2861.7	3000.3	3160.2	3303.1	3399.0	3432.1	3415.0
15°	2485.3	2505.5	2541.8	2663.3	2843.5	3086.6	3321.2	3507.8	3592.0	3582.4
17.5°	2480.0	2488.5	2510.9	2568.5	2707.1	2971.5	3302.0	3614.4	3775.4	3774.3
20°	2573.8	2577.0	2589.8	2601.5	2680.4	2884.0	3252.9	3702.9	3981.2	3981.2
22.5°	2703.9	2701.7	2714.5	2703.9	2742.2	2876.6	3222.0	3780.7	4210.4	4227.4
25°	2899.0	2888.3	2885.1	2860.6	2868.1	2945.9	3256.1	3869.2	4482.3	4517.5
27.5°	3159.1	3142.1	3130.3	3073.8	3054.6	3088.8	3360.6	3975.8	4785.1	4845.8
30°	3498.2	3467.3	3450.2	3352.1	3282.8	3288.1	3518.4	4117.6	5101.7	5199.8
32.5°	3960.9	3912.9	3867.1	3706.1	3579.2	3537.6	3722.1	4313.8	5445.0	5601.8
35°	4479.1	4440.7	4391.6	4143.2	3948.1	3852.1	3997.1	4587.8	5847.0	6095.4
37.5°	4978.0	4945.0	4968.4	4633.7	4382.0	4242.4	4357.5	4955.7	6342.8	6709.5
40°	5494.1	5468.5	5471.7	5151.8	4858.6	4701.9	4794.7	5417.3	6911.0	7439.9
42.5°	6054.9	6035.7	5971.7	5688.1	5358.7	5212.6	5297.9	5950.4	7520.9	8271.5
45°	6682.9	6671.2	6611.4	6286.3	5908.8	5744.6	5859.8	6538.9	8134.0	9054.1
47.5°	7225.6	7235.2	7227.7	6953.7	6562.4	6321.4	6459.0	7153.1	8704.4	9789.8
50°	7486.8	7536.9	7610.5	7525.2	7282.1	7036.9	7063.5	7745.9	9248.1	10479.6
52.5°	7350.3	7445.2	7645.7	7782.1	7876.0	7824.8	7753.3	8334.4	9759.9	11102.2
55°	6841.7	6975.0	7307.7	7637.1	8115.8	8487.9	8581.8	8986.9	10258.9	11650.3
57.5°	5915.2	6131.7	6430.2	7096.6	7902.6	8808.9	9547.7	9892.1	10787.7	12235.6
60°	4326.6	4616.6	4987.6	5979.2	7156.3	8637.2	10369.8	11282.4	11539.4	12993.7
62.5°	2768.9	2948.0	3289.2	4223.2	5576.2	7757.6	10621.4	13020.3	12813.5	14236.8
65°	1895.7	2010.8	2323.2	2847.8	3604.8	5774.5	9947.6	14323.2	14837.1	16207.2
67.5°	1377.5	1464.9	1731.5	2191.0	2348.8	3417.1	7719.2	14263.5	16804.2	18237.2
70°	1004.4	1066.2	1290.1	1731.5	1807.2	1901.0	4676.3	12124.7	16761.6	18776.7
72.5°	744.2	786.8	937.2	1343.4	1462.8	1283.7	2314.7	8812.1	14403.2	16983.4
75°	538.4	570.4	681.3	1027.8	1170.7	977.7	1154.7	5149.7	10046.7	11946.7
77.5°	411.5	436.1	508.6	752.7	937.2	733.5	716.5	2369.1	4763.7	4787.2
80°	330.5	346.5	386.0	529.9	718.6	549.1	467.0	956.4	1505.5	1274.1
82.5°	243.1	269.7	326.3	372.1	513.9	378.5	284.7	483.0	572.5	492.6
85°	138.6	156.7	197.2	266.5	328.4	231.4	163.1	214.3	266.5	218.6
87.5°	49.0	64.0	69.3	104.5	142.9	96.0	62.9	61.8	87.4	65.0
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°
2945.9	0°	2945.9	2945.9	2945.9	2945.9	2945.9	2945.9	2945.9	2945.9	2945.9	2945.9
2977.9	2.5°	2967.2	2961.9	2940.6	2911.8	2881.9	2853.1	2843.5	2823.3	2809.4	2801.9
3047.2	5°	3026.9	3009.9	2959.7	2895.8	2828.6	2756.1	2704.9	2658.0	2623.9	2591.9
3142.1	7.5°	3112.2	3082.4	2996.0	2884.0	2764.6	2644.2	2554.6	2486.4	2440.5	2410.7
3252.9	10°	3211.4	3165.5	3033.3	2865.9	2681.5	2508.7	2403.2	2344.6	2315.8	2299.8
3379.8	12.5°	3325.4	3260.4	3071.7	2824.3	2554.6	2357.3	2284.8	2267.8	2268.9	2269.9
3539.8	15°	3466.2	3375.6	3102.6	2733.7	2389.3	2241.1	2228.3	2256.1	2284.8	2298.7
3721.0	17.5°	3625.0	3497.1	3107.9	2584.4	2227.3	2166.5	2207.0	2266.7	2310.4	2329.6
3923.6	20°	3795.6	3620.8	3069.6	2373.3	2094.0	2105.7	2178.2	2255.0	2303.0	2327.5
4154.9	22.5°	3990.8	3753.0	2977.9	2151.6	1985.2	2039.6	2124.9	2199.6	2249.7	2274.2
4426.8	25°	4213.6	3901.2	2833.9	1965.0	1891.4	1965.0	2050.3	2112.1	2152.6	2175.0
4730.7	27.5°	4460.9	4055.8	2642.0	1816.8	1809.3	1888.2	1958.6	2006.6	2027.9	2045.0
5053.7	30°	4709.4	4196.5	2409.6	1704.8	1737.9	1812.5	1862.6	1884.0	1890.4	1893.6
5414.1	32.5°	4978.0	4318.1	2165.4	1612.1	1669.7	1739.0	1768.8	1778.4	1748.6	1728.3
5851.3	35°	5303.2	4448.1	1926.6	1538.5	1602.5	1662.2	1671.8	1663.3	1628.1	1586.5
6399.3	37.5°	5705.2	4610.2	1735.8	1486.3	1539.6	1579.0	1567.3	1565.2	1568.4	1519.3
7058.2	40°	6197.8	4821.3	1596.1	1445.8	1488.4	1496.9	1463.9	1482.0	1498.0	1423.4
7781.1	42.5°	6744.7	5076.1	1507.6	1418.0	1445.8	1425.5	1374.3	1394.6	1392.4	1294.4
8507.1	45°	7302.3	5353.3	1476.7	1397.8	1406.3	1365.8	1309.3	1314.6	1269.8	1181.3
9203.4	47.5°	7856.8	5650.8	1495.9	1380.7	1357.3	1311.4	1267.7	1244.2	1178.1	1112.0
9870.8	50°	8400.5	5963.2	1566.2	1346.6	1290.1	1263.4	1231.5	1189.9	1119.5	1063.0
10502.0	52.5°	8904.8	6277.7	1645.1	1290.1	1205.9	1221.9	1201.6	1153.6	1084.3	1026.7
11099.0	55°	9382.5	6592.3	1676.1	1212.3	1127.0	1185.6	1173.9	1085.4	1002.2	955.3
11723.8	57.5°	9902.8	6970.8	1641.9	1113.1	1063.0	1144.0	1099.2	1001.2	953.2	918.0
12537.3	60°	10623.5	7564.6	1568.4	990.5	1002.2	1082.2	1005.4	964.9	912.7	873.2
13757.1	62.5°	11820.9	8672.4	1450.0	868.9	930.8	990.5	960.6	920.1	866.8	828.4
15842.5	65°	13590.7	10212.0	1227.2	774.1	850.8	900.9	912.7	872.1	816.7	776.2
17670.0	67.5°	15083.4	11177.9	928.7	695.2	768.7	828.4	861.5	822.0	763.4	723.9
18097.5	70°	15001.3	10476.4	709.0	617.3	696.2	757.0	799.6	768.7	705.8	668.5
16438.5	72.5°	13324.2	8764.1	573.6	538.4	622.7	682.4	733.5	710.1	646.1	609.9
12042.6	75°	9788.7	6221.2	458.5	458.5	531.0	604.5	661.0	646.1	587.5	561.9
5055.9	77.5°	4126.2	2610.0	359.3	380.6	441.4	519.2	589.6	594.9	543.8	575.7
1337.0	80°	1097.1	719.7	274.0	299.6	346.5	428.6	512.8	510.7	455.3	425.4
496.8	82.5°	417.9	283.6	195.1	211.1	250.6	328.4	406.2	419.0	363.6	314.5
195.1	85°	161.0	121.5	120.5	126.9	146.1	217.5	307.1	317.7	274.0	232.4
54.4	87.5°	41.6	36.3	44.8	42.6	67.2	116.2	175.9	182.3	167.4	97.0
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>
2945.9
2810.5
2604.7
2417.1
2304.0
2272.1
2297.6
2333.9
2333.9
2280.6
2181.4
2051.4
1901.0
1734.7
1588.6
1522.5
1425.5
1293.3
1184.5
1112.0
1058.7
1027.8
951.0
914.8
871.1
828.4
778.3
725.0
671.7
609.9
554.4
522.4
395.6
314.5
239.9
138.6
0.0

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