

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: P941255

Luminaire Tested: **GALN-SB4C-950-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941255
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-SB4C-950-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20689 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

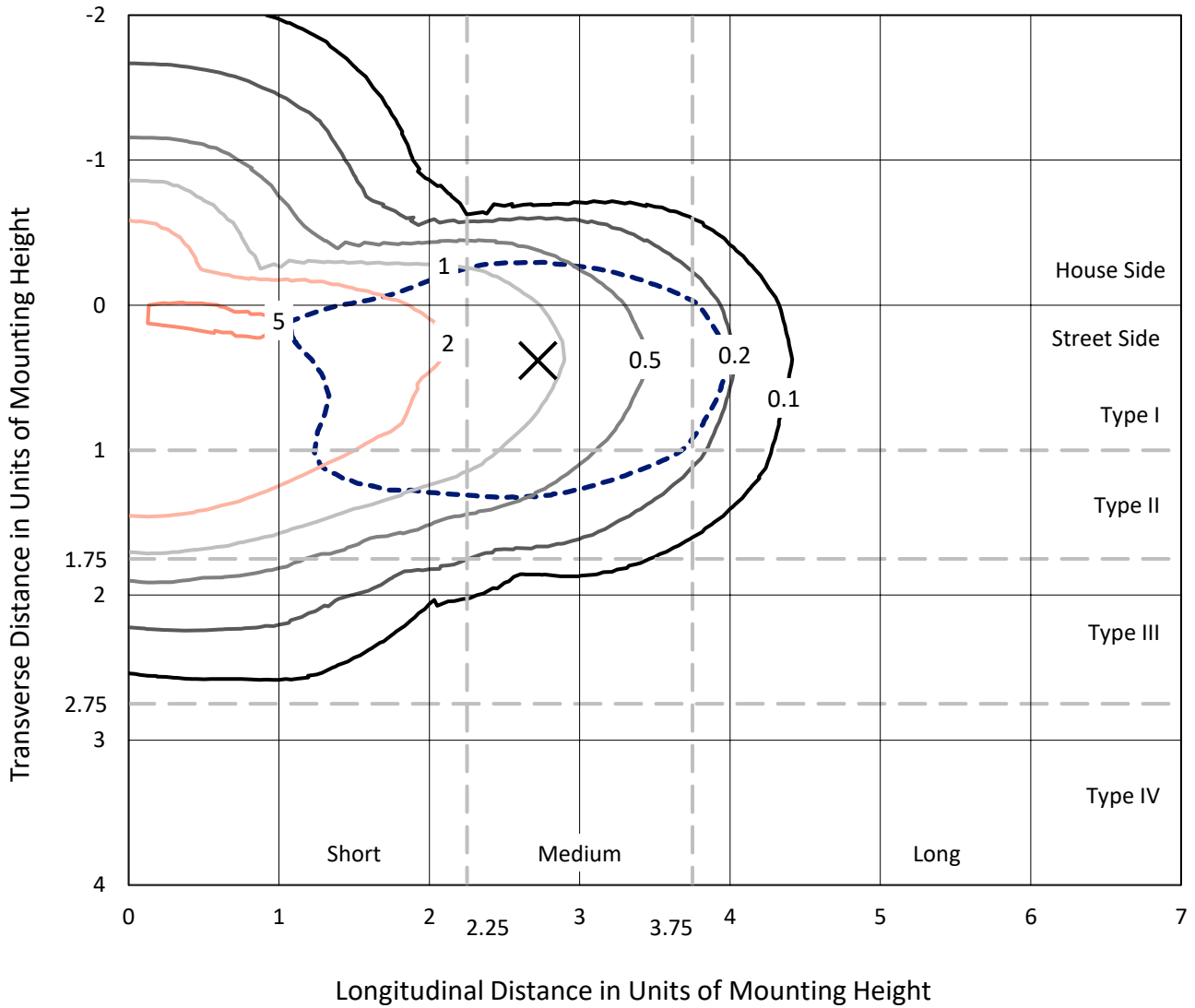
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

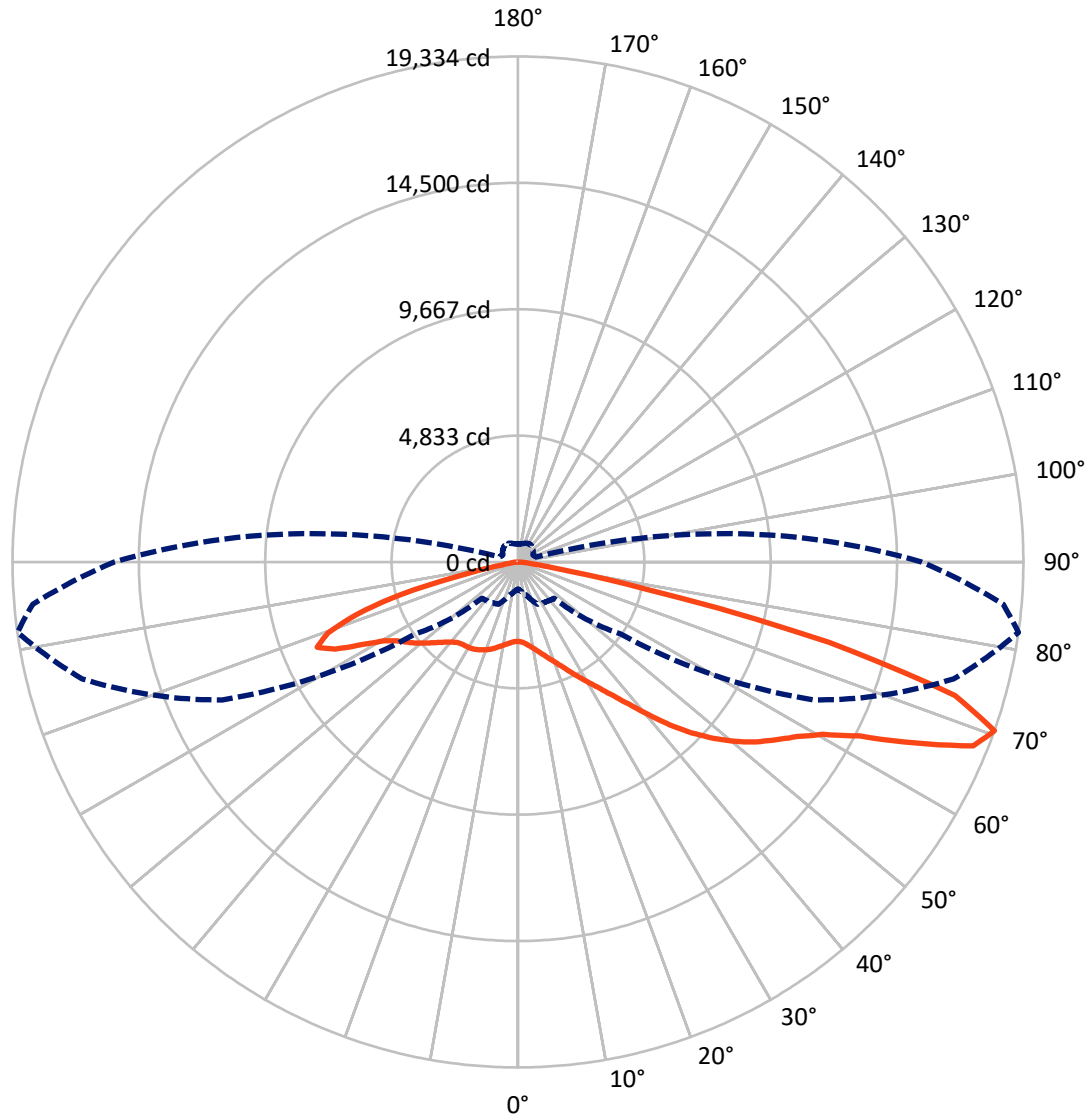
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	5100.3	0.0	5100.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	15588.7	0.0	15588.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	20689.0	0.0	20689.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.4	1.4
10°-20°	822.8	4.0
20°-30°	1376.5	6.7
30°-40°	2150.5	10.4
40°-50°	3424.9	16.6
50°-60°	4766.1	23.0
60°-70°	4985.6	24.1
70°-80°	2605.7	12.6
80°-90°	270.6	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°	20689.0	100.0
0°-180°	20689.0	100.0

Coefficient of Utilization



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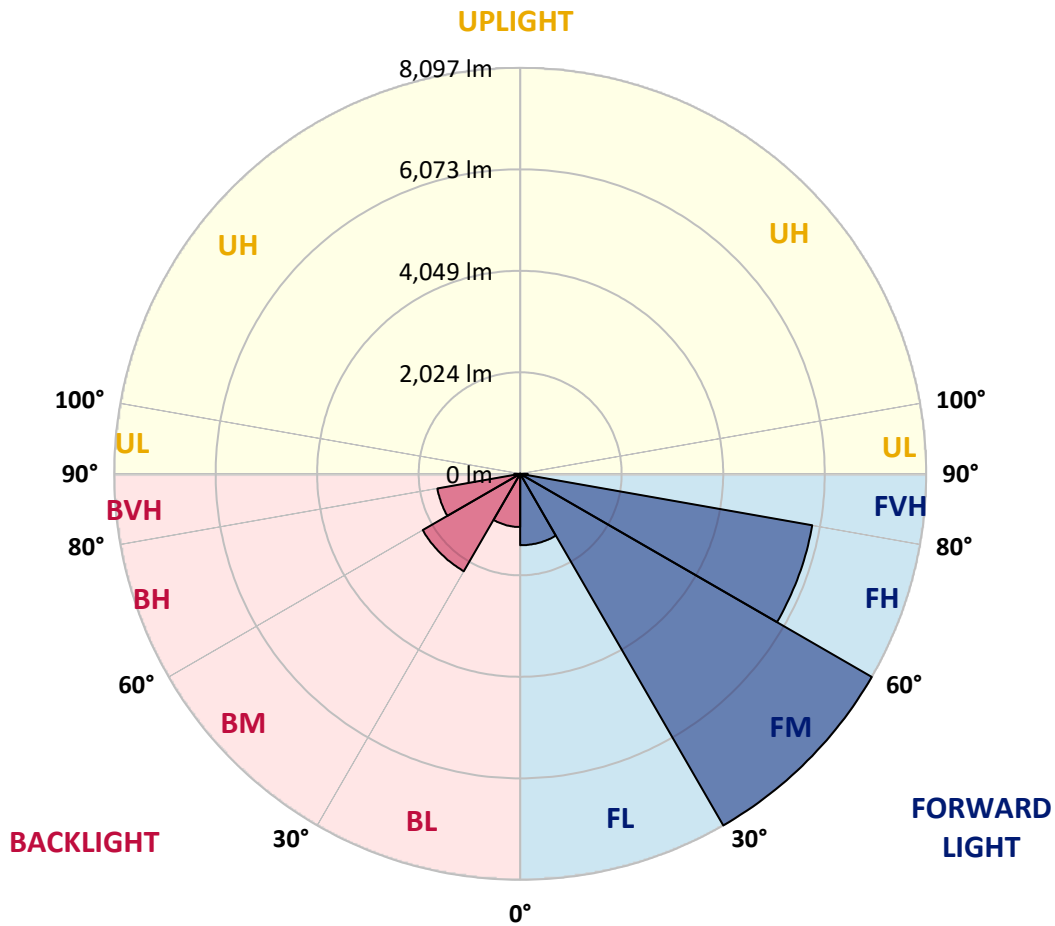
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1424.7	6.9			
FM (30°-60°)	8097.5	39.1			
FH (60°-80°)	5915.1	28.6			G3/7500
FVH (80°-90°)	151.5	0.7			G2/225
BL (0°-30°)	1061.1	5.1	B3/2500		
BM (30°-60°)	2243.9	10.8	B2/2500		
BH (60°-80°)	1676.2	8.1	B3/2500		G3/2500
BVH (80°-90°)	119.1	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°	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3
2.5°	3105.7	3123.3	3117.8	3112.3	3112.3	3104.6	3103.5	3092.5	3083.8	3069.5
5°	3145.2	3163.9	3161.7	3166.1	3180.4	3183.7	3187.0	3180.4	3162.8	3145.2
7.5°	3110.1	3131.0	3137.6	3163.9	3207.8	3247.3	3277.0	3289.1	3272.6	3247.3
10°	2991.5	3014.6	3037.7	3100.2	3178.2	3271.5	3350.5	3397.7	3394.4	3370.3
12.5°	2751.1	2775.3	2824.7	2946.5	3089.3	3253.9	3401.0	3499.8	3533.9	3516.3
15°	2559.0	2579.9	2617.2	2742.3	2927.9	3178.2	3419.7	3611.8	3698.5	3688.7
17.5°	2553.5	2562.3	2585.4	2644.6	2787.4	3059.6	3399.9	3721.6	3887.4	3886.3
20°	2650.1	2653.4	2666.6	2678.7	2759.9	2969.6	3349.4	3812.7	4099.2	4099.2
22.5°	2784.1	2781.9	2795.0	2784.1	2823.6	2961.9	3317.6	3892.9	4335.3	4352.8
25°	2985.0	2974.0	2970.7	2945.4	2953.1	3033.3	3352.7	3984.0	4615.2	4651.4
27.5°	3252.8	3235.3	3223.2	3165.0	3145.2	3180.4	3460.3	4093.8	4927.0	4989.6
30°	3601.9	3570.1	3552.5	3451.5	3380.2	3385.7	3622.8	4239.8	5253.1	5354.0
32.5°	4078.4	4029.0	3981.8	3816.0	3685.4	3642.6	3832.5	4441.8	5606.5	5767.9
35°	4611.9	4572.4	4521.9	4266.1	4065.2	3966.4	4115.7	4723.9	6020.4	6276.2
37.5°	5125.7	5091.7	5115.8	4771.1	4512.0	4368.2	4486.8	5102.6	6530.9	6908.6
40°	5657.0	5630.7	5634.0	5304.6	5002.7	4841.4	4936.9	5578.0	7116.0	7660.6
42.5°	6234.5	6214.7	6148.9	5856.8	5517.6	5367.2	5455.0	6126.9	7744.0	8516.9
45°	6881.1	6869.0	6807.6	6472.7	6084.1	5915.0	6033.6	6732.9	8375.2	9322.7
47.5°	7439.9	7449.8	7442.1	7160.0	6757.1	6509.0	6650.6	7365.2	8962.6	10080.1
50°	7708.9	7760.5	7836.2	7748.4	7498.1	7245.6	7273.0	7975.6	9522.5	10790.4
52.5°	7568.3	7666.1	7872.4	8013.0	8109.6	8056.9	7983.3	8581.6	10049.4	11431.6
55°	7044.7	7181.9	7524.4	7863.7	8356.6	8739.7	8836.3	9253.5	10563.2	11995.8
57.5°	6090.7	6313.5	6620.9	7307.1	8137.0	9070.2	9830.9	10185.5	11107.7	12598.5
60°	4454.9	4753.5	5135.6	6156.6	7368.5	8893.4	10677.4	11617.1	11881.7	13379.1
62.5°	2851.0	3035.5	3386.8	4348.4	5741.6	7987.7	10936.4	13406.5	13193.6	14659.1
65°	1951.9	2070.5	2392.1	2932.3	3711.7	5945.8	10242.6	14748.1	15277.2	16687.9
67.5°	1418.4	1508.4	1782.9	2256.0	2418.5	3518.5	7948.2	14686.6	17302.7	18778.1
70°	1034.1	1097.8	1328.4	1782.9	1860.8	1957.4	4815.0	12484.4	17258.8	19333.6
72.5°	766.3	810.2	965.0	1383.2	1506.2	1321.8	2383.4	9073.5	14830.4	17487.1
75°	554.4	587.3	701.5	1058.3	1205.4	1006.7	1188.9	5302.5	10344.7	12301.0
77.5°	423.8	449.0	523.7	775.1	965.0	755.3	737.7	2439.3	4905.0	4929.2
80°	340.3	356.8	397.4	545.6	739.9	565.4	480.8	984.7	1550.1	1311.9
82.5°	250.3	277.7	335.9	383.1	529.1	389.7	293.1	497.3	589.5	507.2
85°	142.7	161.4	203.1	274.5	338.1	238.2	168.0	220.7	274.5	225.1
87.5°	50.5	65.9	71.4	107.6	147.1	98.8	64.8	63.7	90.0	67.0
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°
3033.3	0°	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3
3066.2	2.5°	3055.2	3049.7	3027.8	2998.1	2967.4	2937.8	2927.9	2907.0	2892.7	2885.1
3137.6	5°	3116.7	3099.1	3047.5	2981.7	2912.5	2837.9	2785.2	2736.9	2701.7	2668.8
3235.3	7.5°	3204.5	3173.8	3084.9	2969.6	2846.6	2722.6	2630.4	2560.1	2512.9	2482.2
3349.4	10°	3306.6	3259.4	3123.3	2950.9	2761.0	2583.2	2474.5	2414.1	2384.5	2368.0
3480.1	12.5°	3424.1	3357.1	3162.8	2908.1	2630.4	2427.3	2352.6	2335.1	2336.2	2337.3
3644.7	15°	3569.0	3475.7	3194.6	2814.8	2460.2	2307.6	2294.4	2323.0	2352.6	2366.9
3831.4	17.5°	3732.6	3600.8	3200.1	2661.1	2293.3	2230.8	2272.5	2334.0	2379.0	2398.7
4040.0	20°	3908.2	3728.2	3160.6	2443.7	2156.1	2168.2	2242.8	2321.9	2371.3	2396.5
4278.2	22.5°	4109.1	3864.3	3066.2	2215.4	2044.1	2100.1	2187.9	2264.8	2316.4	2341.6
4558.1	25°	4338.6	4016.9	2918.0	2023.3	1947.5	2023.3	2111.1	2174.8	2216.5	2239.5
4871.0	27.5°	4593.3	4176.1	2720.4	1870.7	1863.0	1944.2	2016.7	2066.1	2088.0	2105.6
5203.6	30°	4849.1	4321.0	2481.1	1755.4	1789.4	1866.3	1917.9	1939.8	1946.4	1949.7
5574.7	32.5°	5125.7	4446.2	2229.7	1659.9	1719.2	1790.5	1821.3	1831.2	1800.4	1779.6
6024.8	35°	5460.5	4580.1	1983.8	1584.1	1650.0	1711.5	1721.4	1712.6	1676.4	1633.6
6589.1	37.5°	5874.4	4747.0	1787.2	1530.4	1585.2	1625.9	1613.8	1611.6	1614.9	1564.4
7267.5	40°	6381.6	4964.3	1643.4	1488.6	1532.6	1541.3	1507.3	1526.0	1542.4	1465.6
8011.9	42.5°	6944.8	5226.7	1552.3	1460.1	1488.6	1467.8	1415.1	1435.9	1433.7	1332.7
8759.5	45°	7518.9	5512.1	1520.5	1439.2	1448.0	1406.3	1348.1	1353.6	1307.5	1216.4
9476.3	47.5°	8089.8	5818.4	1540.2	1421.7	1397.5	1350.3	1305.3	1281.2	1213.1	1145.0
10163.6	50°	8649.7	6140.1	1612.7	1386.5	1328.4	1300.9	1268.0	1225.2	1152.7	1094.5
10813.5	52.5°	9169.0	6463.9	1693.9	1328.4	1241.6	1258.1	1237.2	1187.8	1116.5	1057.2
11428.3	55°	9660.8	6787.8	1725.8	1248.2	1160.4	1220.8	1208.7	1117.6	1031.9	983.6
12071.6	57.5°	10196.5	7177.5	1690.6	1146.1	1094.5	1178.0	1131.8	1030.8	981.4	945.2
12909.2	60°	10938.6	7789.0	1614.9	1019.9	1031.9	1114.3	1035.2	993.5	939.7	899.1
14165.1	62.5°	12171.5	8929.6	1493.0	894.7	958.4	1019.9	989.1	947.4	892.5	853.0
16312.5	65°	13993.9	10514.9	1263.6	797.0	876.1	927.7	939.7	898.0	840.9	799.2
18194.1	67.5°	15530.8	11509.5	956.2	715.8	791.5	853.0	887.0	846.4	786.0	745.4
18634.3	70°	15446.3	10787.1	730.0	635.6	716.9	779.4	823.4	791.5	726.8	688.3
16926.1	72.5°	13719.4	9024.0	590.6	554.4	641.1	702.6	755.3	731.1	665.3	628.0
12399.8	75°	10079.1	6405.8	472.1	472.1	546.7	622.5	680.6	665.3	604.9	578.5
5205.8	77.5°	4248.5	2687.5	370.0	391.9	454.5	534.6	607.1	612.6	559.9	592.8
1376.7	80°	1129.7	741.0	282.1	308.5	356.8	441.3	528.0	525.9	468.8	438.0
511.6	82.5°	430.3	292.0	200.9	217.4	258.0	338.1	418.3	431.4	374.4	323.9
200.9	85°	165.8	125.2	124.1	130.6	150.4	224.0	316.2	327.1	282.1	239.3
56.0	87.5°	42.8	37.3	46.1	43.9	69.2	119.7	181.1	187.7	172.4	99.9
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>
3033.3
2893.8
2682.0
2488.7
2372.4
2339.4
2365.8
2403.1
2403.1
2348.2
2246.1
2112.2
1957.4
1786.1
1635.7
1567.7
1467.8
1331.7
1219.7
1145.0
1090.1
1058.3
979.3
941.9
896.9
853.0
801.4
746.5
691.6
628.0
570.9
537.9
407.3
323.9
247.0
142.7
0.0

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