

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: P949216

Luminaire Tested: **GALN-SB4A-740-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949216
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-740-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19526 lumens
Efficiency: N/A
Efficacy: 171.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

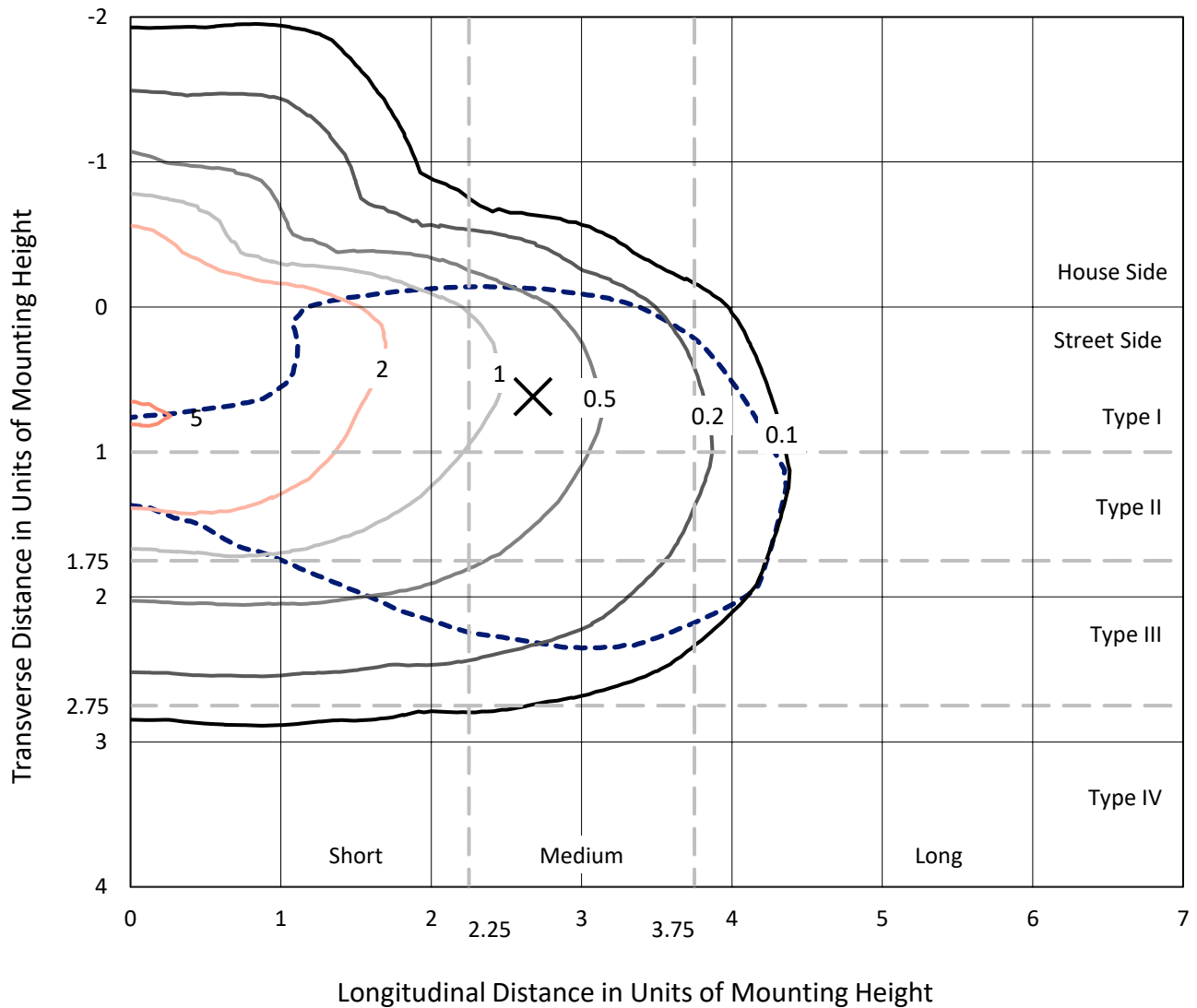
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P949216
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Iso-Footcandle Lines of Horizontal Illumination

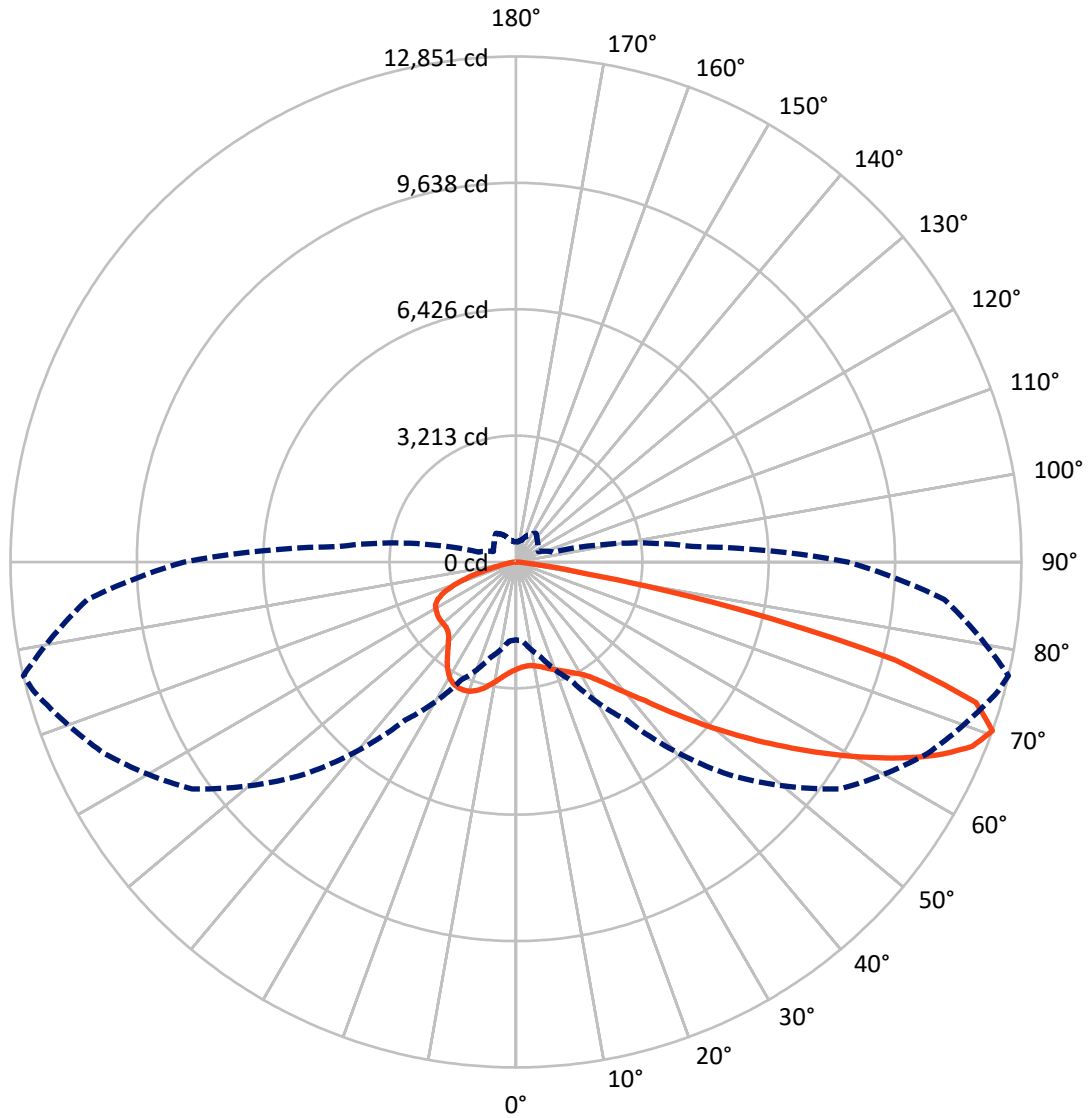
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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
House Side	Lumens	4275.9	0.0	4275.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	15250.1	0.0	15250.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	19526.0	0.0	19526.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.8	1.3
10°-20°	749.8	3.8
20°-30°	1282.3	6.6
30°-40°	2062.0	10.6
40°-50°	3219.4	16.5
50°-60°	4300.3	22.0
60°-70°	4583.5	23.5
70°-80°	2821.6	14.5
80°-90°	247.2	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°	19526.0	100.0
0°-180°	19526.0	100.0

Coefficient of Utilization



REPORT NUMBER: P949216

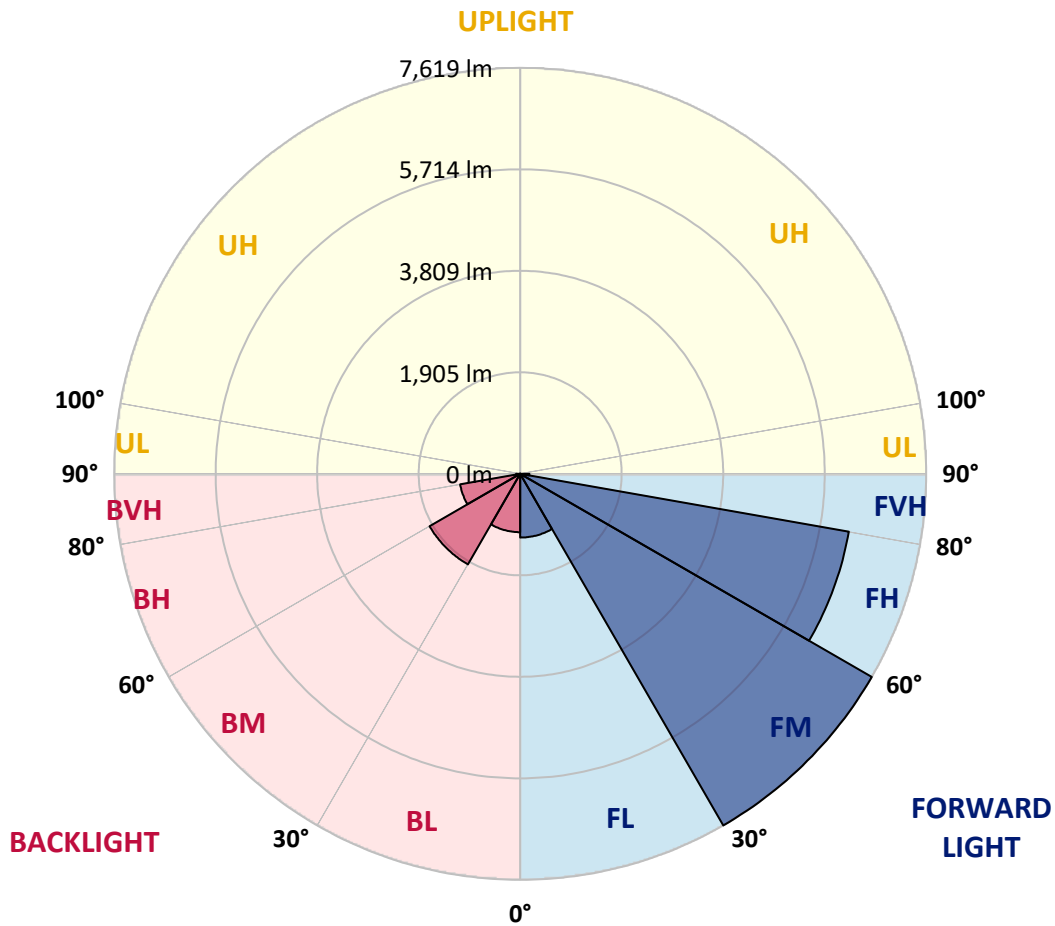
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1196.3	6.1			
FM (30°-60°)	7618.6	39.0			
FH (60°-80°)	6262.3	32.1			G3/7500
FVH (80°-90°)	172.9	0.9			G2/225
BL (0°-30°)	1095.6	5.6	B3/2500		
BM (30°-60°)	1963.1	10.1	B2/2500		
BH (60°-80°)	1142.7	5.9	B3/2500		G3/2500
BVH (80°-90°)	74.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



REPORT NUMBER: P949216
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2724.1	2724.1	2724.1	2724.1	2724.1	2724.1	2724.1	2724.1	2724.1	2724.1
2.5°	2511.1	2510.1	2523.1	2527.1	2551.1	2568.1	2600.1	2634.1	2678.1	2683.1
5°	2366.0	2366.0	2381.0	2397.0	2428.0	2462.0	2511.1	2570.1	2646.1	2658.1
7.5°	2243.0	2251.0	2264.0	2295.0	2331.0	2380.0	2455.0	2539.1	2639.1	2658.1
10°	2144.0	2153.0	2169.0	2194.0	2248.0	2316.0	2414.0	2522.1	2656.1	2686.1
12.5°	2113.0	2122.0	2131.0	2150.0	2200.0	2280.0	2397.0	2530.1	2697.1	2727.1
15°	2185.0	2196.0	2189.0	2184.0	2210.0	2283.0	2405.0	2559.1	2748.1	2791.1
17.5°	2351.0	2355.0	2339.0	2292.0	2288.0	2327.0	2443.0	2599.1	2812.1	2859.1
20°	2619.1	2612.1	2579.1	2486.1	2433.0	2425.0	2508.1	2659.1	2878.1	2928.1
22.5°	2983.1	2975.1	2909.1	2762.1	2644.1	2566.1	2602.1	2737.1	2952.1	3008.1
25°	3437.1	3426.1	3329.1	3129.1	2946.1	2753.1	2730.1	2840.1	3043.1	3095.1
27.5°	3967.1	3958.1	3853.1	3589.1	3325.1	3009.1	2889.1	2961.1	3138.1	3197.1
30°	4537.1	4563.1	4377.1	4093.1	3759.1	3343.1	3103.1	3110.1	3261.1	3314.1
32.5°	5207.1	5252.1	5028.1	4668.1	4212.1	3706.1	3373.1	3318.1	3440.1	3484.1
35°	5871.1	5922.1	5736.1	5338.1	4813.1	4134.1	3655.1	3557.1	3678.1	3726.1
37.5°	6445.1	6513.1	6417.1	6071.1	5456.1	4650.1	4023.1	3838.1	3971.1	4031.1
40°	6898.1	7002.1	6995.1	6779.1	6214.1	5276.1	4490.1	4185.1	4335.1	4400.1
42.5°	7266.1	7356.1	7434.2	7423.2	7005.1	5987.1	5039.1	4636.1	4750.1	4825.1
45°	7520.2	7616.2	7784.2	7965.2	7766.2	6748.1	5668.1	5171.1	5275.1	5388.1
47.5°	7747.2	7856.2	8074.2	8361.2	8412.2	7512.2	6357.1	5794.1	5889.1	6006.1
50°	7767.2	7861.2	8199.2	8606.2	8871.2	8246.2	7097.1	6493.1	6582.1	6707.1
52.5°	7284.1	7432.2	8022.2	8599.2	9082.2	8860.2	7832.2	7220.1	7320.1	7470.2
55°	5654.1	5871.1	7503.2	8331.2	9007.2	9257.2	8531.2	7993.2	8121.2	8278.2
57.5°	4870.1	4965.1	5956.1	7843.2	8665.2	9360.2	9121.2	8774.2	8980.2	9152.2
60°	4377.1	4456.1	5042.1	7084.1	8215.2	9197.2	9577.2	9502.2	9858.2	10063.2
62.5°	3849.1	3924.1	4457.1	5915.1	7639.2	8926.2	9865.2	10174.2	10758.2	10982.2
65°	3325.1	3389.1	3900.1	4970.1	6907.1	8655.2	10014.2	10755.2	11591.2	11823.2
67.5°	2741.1	2794.1	3277.1	4193.1	6017.1	8284.2	10088.2	11212.2	12316.2	12515.3
70°	1978.0	2019.0	2518.1	3316.1	4900.1	7646.2	10058.2	11536.2	12692.3	12851.3
72.5°	935.0	972.0	1558.0	2153.0	3461.1	6404.1	9451.2	11279.2	12310.2	12231.2
75°	499.0	531.0	895.0	1181.0	1828.0	4390.1	7734.2	9716.2	10337.2	9953.2
77.5°	338.0	363.0	554.0	709.0	835.0	2084.0	4971.1	6727.1	6472.1	5838.1
80°	268.0	294.0	454.0	480.0	404.0	753.0	2054.0	3114.1	2237.0	1789.0
82.5°	206.0	235.0	382.0	348.0	220.0	309.0	598.0	985.0	573.0	436.0
85°	126.0	157.0	300.0	222.0	124.0	141.0	203.0	274.0	175.0	146.0
87.5°	64.0	90.0	152.0	81.0	56.0	33.0	54.0	54.0	46.0	40.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949216
 CATALOG NUMBER: GALN-SB4A-740-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2724.1	0°	2724.1	2724.1	2724.1	2724.1	2724.1	2724.1	2724.1	2724.1	2724.1	2724.1
2710.1	2.5°	2734.1	2754.1	2788.1	2820.1	2845.1	2869.1	2893.1	2906.1	2910.1	2926.1
2725.1	5°	2766.1	2803.1	2869.1	2931.1	2970.1	2994.1	3011.1	3021.1	3023.1	3028.1
2766.1	7.5°	2825.1	2884.1	2976.1	3038.1	3067.1	3065.1	3058.1	3033.1	3023.1	3014.1
2826.1	10°	2908.1	2986.1	3099.1	3142.1	3124.1	3076.1	3014.1	2941.1	2907.1	2874.1
2908.1	12.5°	3011.1	3110.1	3221.1	3219.1	3130.1	3007.1	2863.1	2751.1	2680.1	2629.1
3009.1	15°	3136.1	3250.1	3335.1	3267.1	3072.1	2851.1	2640.1	2494.1	2430.0	2374.0
3111.1	17.5°	3265.1	3387.1	3426.1	3252.1	2926.1	2620.1	2381.0	2266.0	2203.0	2173.0
3221.1	20°	3391.1	3512.1	3480.1	3166.1	2704.1	2358.0	2145.0	2082.0	2069.0	2076.0
3328.1	22.5°	3524.1	3632.1	3491.1	3000.1	2421.0	2090.0	1973.0	1975.0	2004.0	2025.0
3440.1	25°	3660.1	3733.1	3462.1	2760.1	2117.0	1893.0	1864.0	1896.0	1953.0	1994.0
3566.1	27.5°	3791.1	3823.1	3399.1	2463.0	1856.0	1752.0	1757.0	1823.0	1909.0	1966.0
3719.1	30°	3939.1	3903.1	3278.1	2129.0	1675.0	1631.0	1673.0	1750.0	1836.0	1887.0
3912.1	32.5°	4106.1	3972.1	3086.1	1820.0	1547.0	1534.0	1603.0	1653.0	1691.0	1706.0
4168.1	35°	4314.1	4069.1	2840.1	1603.0	1432.0	1463.0	1529.0	1504.0	1489.0	1481.0
4512.1	37.5°	4584.1	4200.1	2552.1	1462.0	1339.0	1412.0	1439.0	1361.0	1302.0	1273.0
4929.1	40°	4909.1	4392.1	2275.0	1353.0	1280.0	1368.0	1321.0	1227.0	1152.0	1111.0
5398.1	42.5°	5270.1	4593.1	2042.0	1271.0	1247.0	1332.0	1234.0	1122.0	1001.0	988.0
5957.1	45°	5649.1	4800.1	1883.0	1208.0	1231.0	1301.0	1184.0	1003.0	917.0	970.0
6518.1	47.5°	6028.1	4990.1	1787.0	1161.0	1223.0	1266.0	1140.0	937.0	876.0	953.0
7119.1	50°	6450.1	5160.1	1744.0	1127.0	1214.0	1252.0	1074.0	920.0	833.0	884.0
7741.2	52.5°	6869.1	5292.1	1712.0	1093.0	1201.0	1241.0	1042.0	900.0	781.0	784.0
8367.2	55°	7287.1	5378.1	1677.0	1048.0	1172.0	1217.0	1039.0	878.0	742.0	728.0
9029.2	57.5°	7733.2	5427.1	1634.0	998.0	1122.0	1156.0	1036.0	861.0	730.0	707.0
9706.2	60°	8187.2	5499.1	1578.0	937.0	1055.0	1083.0	1029.0	855.0	723.0	684.0
10344.2	62.5°	8594.2	5524.1	1511.0	879.0	969.0	1011.0	1014.0	850.0	704.0	637.0
10874.2	65°	8861.2	5416.1	1394.0	813.0	876.0	937.0	985.0	833.0	670.0	603.0
11136.2	67.5°	8850.2	5108.1	1211.0	728.0	786.0	855.0	943.0	804.0	629.0	561.0
10938.2	70°	8438.2	4500.1	979.0	629.0	687.0	767.0	889.0	761.0	580.0	515.0
9726.2	72.5°	7237.1	3522.1	711.0	513.0	572.0	676.0	819.0	709.0	530.0	474.0
7188.1	75°	5170.1	2229.0	482.0	394.0	445.0	573.0	732.0	648.0	484.0	476.0
3600.1	77.5°	2641.1	1065.0	319.0	288.0	310.0	452.0	615.0	579.0	491.0	393.0
1024.0	80°	859.0	393.0	201.0	196.0	206.0	301.0	476.0	475.0	372.0	267.0
248.0	82.5°	274.0	169.0	131.0	126.0	121.0	189.0	332.0	376.0	251.0	169.0
89.0	85°	109.0	101.0	77.0	71.0	51.0	89.0	174.0	250.0	187.0	122.0
23.0	87.5°	40.0	40.0	21.0	15.0	11.0	30.0	47.0	75.0	107.0	63.0
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>
2724.1
2935.1
3036.1
3016.1
2864.1
2617.1
2368.0
2182.0
2073.0
2030.0
2005.0
1980.0
1899.0
1714.0
1489.0
1280.0
1114.0
1001.0
998.0
989.0
922.0
805.0
738.0
710.0
687.0
637.0
603.0
564.0
<i>521.0</i>
471.0
449.0
350.0
236.0
168.0
125.0
62.0
0.0

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