

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: P940658

Luminaire Tested: **GALN-SB3D-827-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940658
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20102 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

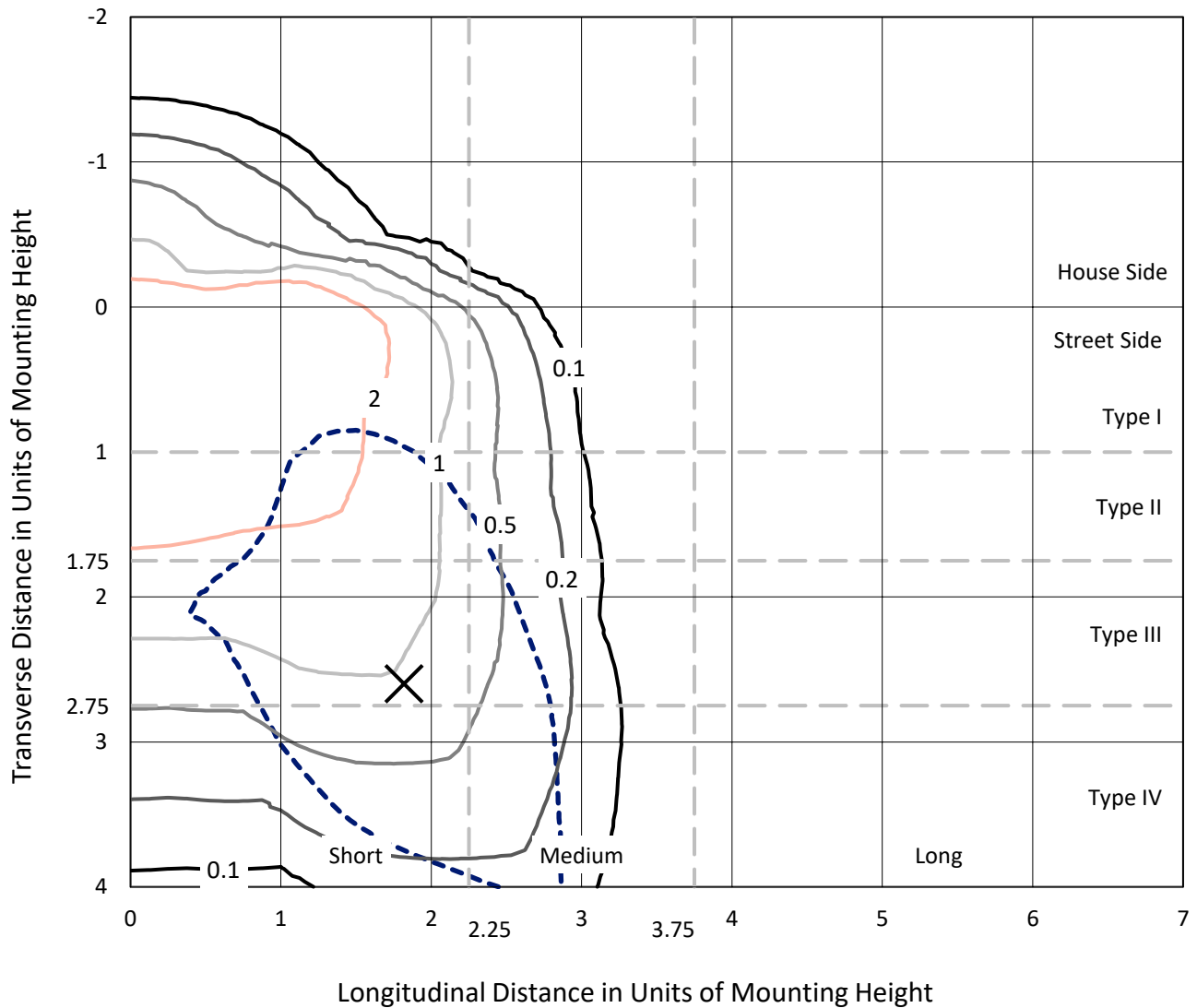
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

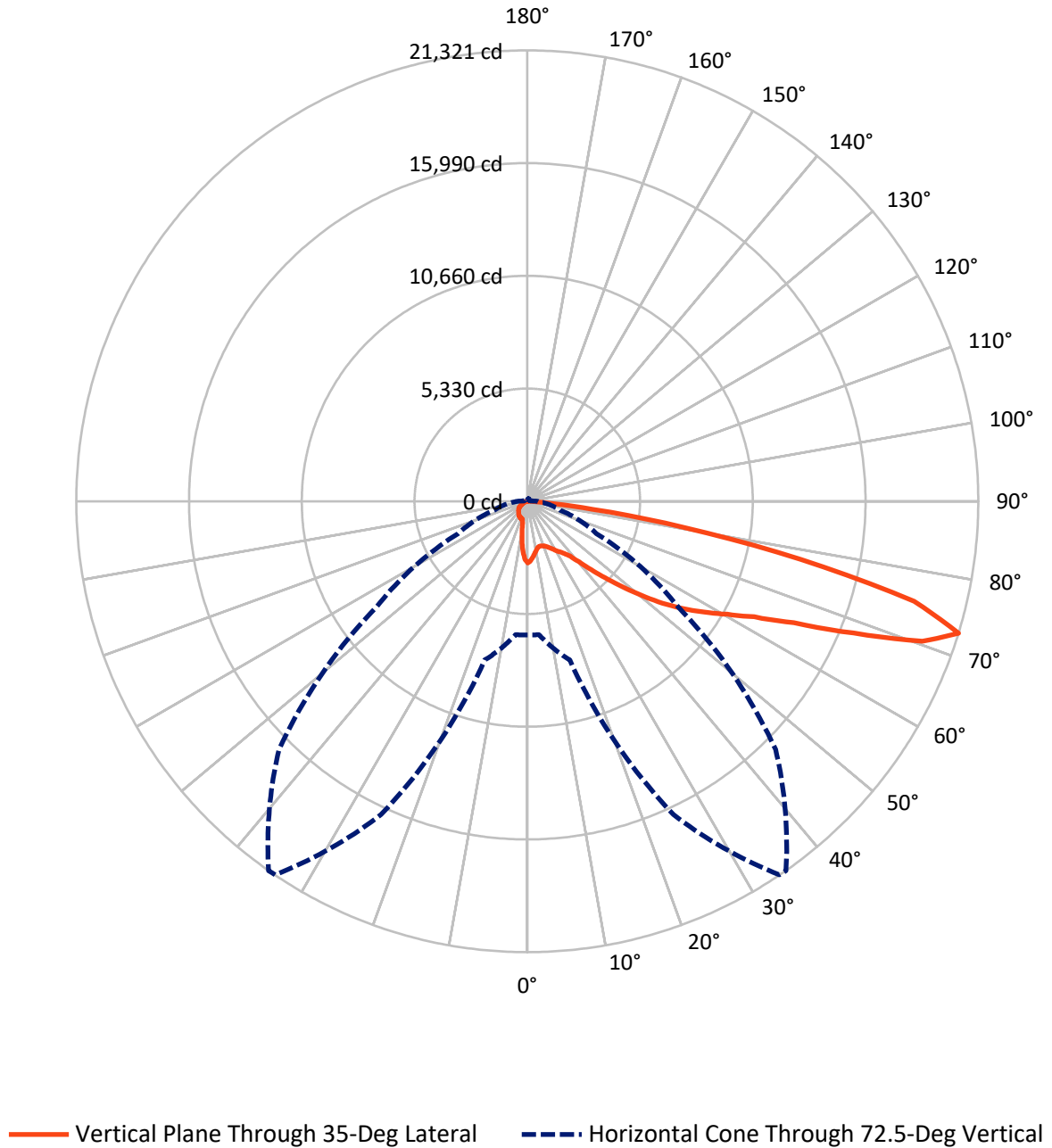
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2262.4	0.0	2262.4
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	17839.6	0.0	17839.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	20102.0	0.0	20102.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.4	1.2
10°-20°	560.1	2.8
20°-30°	909.8	4.5
30°-40°	1518.0	7.6
40°-50°	2872.1	14.3
50°-60°	4563.8	22.7
60°-70°	5645.7	28.1
70°-80°	3509.4	17.5
80°-90°	283.6	1.4
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°	20102.0	100.0
0°-180°	20102.0	100.0

Coefficient of Utilization



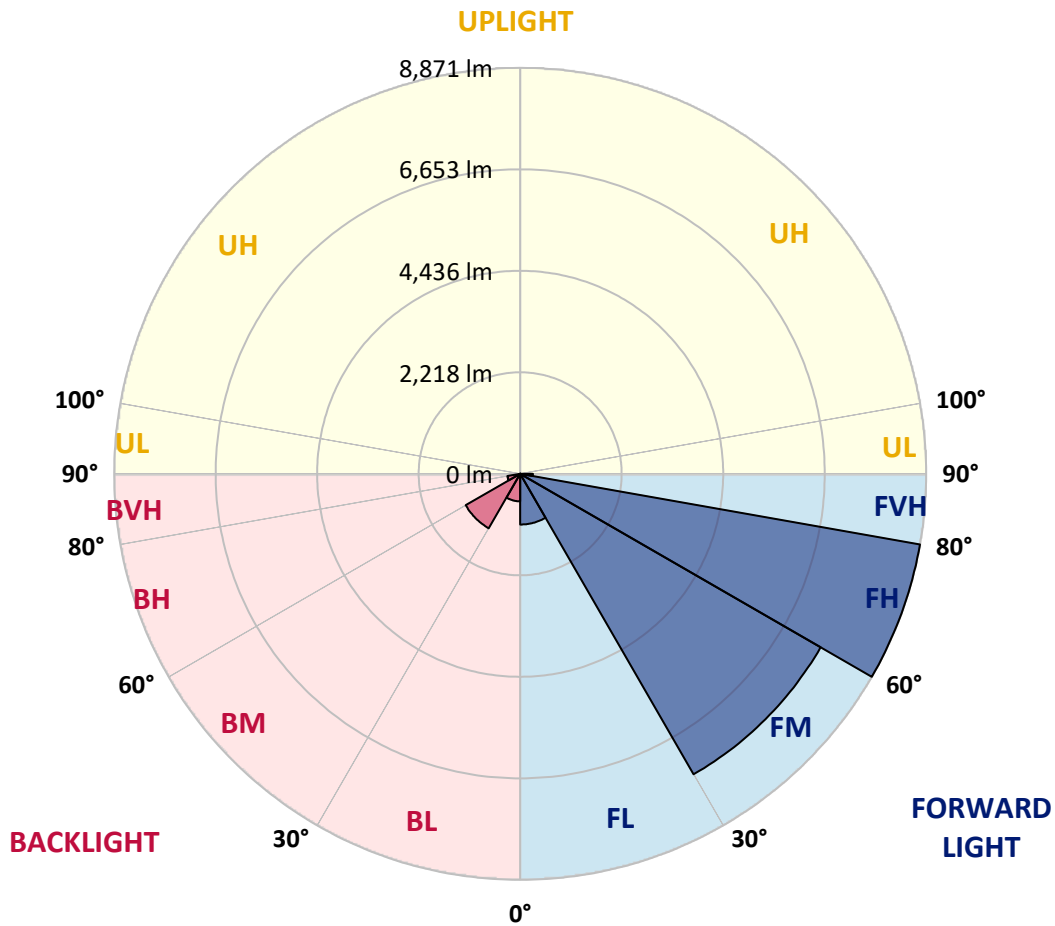
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1108.1	5.5			
FM (30°-60°)	7580.5	37.7			
FH (60°-80°)	8871.3	44.1			G4/12000
FVH (80°-90°)	279.8	1.4			G3/500
BL (0°-30°)	601.2	3.0	B2/1000		
BM (30°-60°)	1373.5	6.8	B2/2500		
BH (60°-80°)	283.9	1.4	B1/500		G1/500
BVH (80°-90°)	3.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5
2.5°	2783.8	2807.4	2811.8	2819.2	2819.2	2828.0	2842.8	2863.4	2897.3	2914.9
5°	2565.8	2583.5	2605.6	2623.3	2657.2	2661.6	2719.0	2775.0	2853.1	2912.0
7.5°	2346.4	2367.0	2396.5	2439.2	2483.4	2496.6	2583.5	2677.8	2801.5	2912.0
10°	2191.7	2193.2	2219.7	2262.4	2333.1	2349.3	2455.4	2589.4	2744.1	2894.3
12.5°	2104.8	2115.1	2126.9	2159.3	2227.1	2237.4	2350.8	2508.4	2686.6	2884.0
15°	2104.8	2112.2	2119.5	2135.7	2190.2	2199.1	2299.2	2456.8	2657.2	2888.4
17.5°	2126.9	2138.7	2132.8	2151.9	2209.4	2215.3	2303.7	2442.1	2655.7	2916.4
20°	2179.9	2188.8	2177.0	2188.8	2246.2	2258.0	2349.3	2470.1	2680.7	2965.0
22.5°	2263.9	2268.3	2240.3	2249.2	2308.1	2322.8	2428.9	2549.6	2741.1	3043.1
25°	2369.9	2378.8	2336.1	2346.4	2402.3	2420.0	2542.3	2668.9	2836.9	3150.6
27.5°	2492.2	2496.6	2459.8	2458.3	2530.5	2555.5	2679.3	2816.2	2965.0	3286.1
30°	2632.1	2645.4	2610.0	2604.1	2695.5	2716.1	2838.3	2997.4	3153.5	3489.4
32.5°	2742.6	2752.9	2732.3	2747.0	2839.8	2856.0	3031.3	3253.7	3449.6	3778.1
35°	2901.7	2907.6	2860.4	2886.9	2993.0	3034.2	3294.9	3613.1	3822.3	4140.4
37.5°	3477.6	3477.6	3277.3	3146.2	3247.8	3284.6	3655.8	4065.3	4281.8	4626.5
40°	4274.4	4261.2	3968.1	3700.0	3686.7	3758.9	4169.9	4635.3	4875.4	5209.8
42.5°	5124.3	5103.7	4704.5	4439.4	4395.2	4420.3	4763.5	5337.9	5582.4	5921.2
45°	5878.5	5872.6	5507.3	5150.8	5071.3	5150.8	5504.3	6159.8	6335.1	6691.5
47.5°	6510.3	6510.3	6243.7	6011.0	5969.8	6016.9	6507.4	7071.5	7055.3	7511.9
50°	7238.0	7232.1	6978.7	6878.6	6921.3	6987.6	7662.2	8031.9	7800.6	8317.6
52.5°	7747.6	7783.0	7696.1	7679.9	7897.8	8012.7	8834.6	8971.6	8467.9	9082.1
55°	8151.2	8192.4	8292.6	8406.0	8825.8	8976.0	9970.3	9862.7	9026.1	9744.9
57.5°	8722.7	8663.8	8818.4	9042.3	9721.3	9902.5	11070.5	10703.8	9475.4	10282.5
60°	9416.4	9425.3	9451.8	9734.6	10615.4	10848.1	12154.6	11499.2	9764.0	10612.5
62.5°	10250.1	10263.4	10317.9	10752.4	11815.8	12035.3	13309.4	12150.2	9896.6	10519.7
65°	10192.7	10248.6	10857.0	12343.1	13640.8	13857.3	14657.1	12606.8	9696.3	9671.3
67.5°	9285.3	9376.7	10394.5	14243.2	16392.2	16633.8	16286.2	12696.6	8831.7	7520.8
70°	8095.2	8127.6	9351.6	15951.8	19578.2	19822.7	17744.4	11708.3	6701.8	4194.9
72.5°	6321.8	6329.2	7765.3	16348.0	21307.4	21320.6	16599.9	8691.8	3604.3	1611.4
75°	4516.0	4471.8	5200.9	13257.8	18746.0	18896.2	12444.8	4077.1	1377.2	761.5
77.5°	2421.5	2470.1	2942.9	7862.5	12950.0	13206.3	6790.2	1175.4	701.1	518.5
80°	748.2	789.5	1206.3	3599.8	7335.2	7489.8	2517.2	522.9	489.0	369.7
82.5°	235.7	244.5	562.7	1512.7	3044.5	3115.2	729.1	296.1	334.4	244.5
85°	67.8	69.2	250.4	564.1	752.7	767.4	204.7	114.9	191.5	151.7
87.5°	7.4	23.6	94.3	94.3	66.3	64.8	22.1	25.0	54.5	19.1
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°
2913.5	0°	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5
2926.7	2.5°	2919.3	2920.8	2901.7	2869.3	2833.9	2804.5	2767.6	2738.2	2717.6	2711.7
2953.2	5°	2940.0	2929.7	2875.2	2776.5	2658.6	2557.0	2443.6	2353.7	2294.8	2269.8
2981.2	7.5°	2970.9	2941.4	2822.1	2627.7	2402.3	2202.0	1998.8	1841.2	1741.0	1690.9
3007.7	10°	2997.4	2938.5	2733.8	2412.7	2068.0	1764.6	1490.6	1300.6	1194.5	1144.5
3038.7	12.5°	3022.5	2937.0	2618.9	2157.8	1690.9	1319.7	1064.9	970.7	941.2	930.9
3088.7	15°	3069.6	2941.4	2474.5	1866.2	1315.3	997.2	904.4	902.9	908.8	905.9
3165.3	17.5°	3134.4	2945.9	2311.0	1556.9	1014.8	879.3	874.9	888.2	897.0	892.6
3261.1	20°	3218.4	2963.5	2137.2	1250.5	872.0	849.9	860.2	872.0	879.3	872.0
3389.2	22.5°	3336.2	2994.5	1947.2	1004.5	826.3	832.2	841.0	854.3	861.7	851.4
3552.7	25°	3480.5	3043.1	1760.2	873.4	804.2	811.6	824.8	839.6	848.4	838.1
3758.9	27.5°	3667.6	3121.1	1587.8	844.0	782.1	786.5	805.7	827.8	839.6	826.3
4052.0	30°	3938.6	3249.3	1439.1	857.2	768.9	758.6	785.1	816.0	829.3	817.5
4451.2	32.5°	4298.0	3430.5	1347.7	877.9	763.0	726.2	751.2	791.0	813.1	805.7
4972.6	35°	4769.3	3705.9	1312.4	901.4	758.6	692.3	710.0	752.7	791.0	798.3
5629.5	37.5°	5340.8	4088.9	1322.7	911.7	745.3	664.3	673.1	710.0	760.0	783.6
6368.9	40°	5990.4	4535.1	1381.6	901.4	730.6	640.7	642.2	670.2	714.4	749.7
7164.3	42.5°	6660.6	5056.6	1490.6	863.1	717.3	620.1	615.7	634.8	664.3	689.3
7958.2	45°	7298.4	5592.7	1598.1	810.1	701.1	599.5	589.2	596.5	602.4	612.7
8731.5	47.5°	7855.1	5969.8	1567.2	761.5	679.0	575.9	558.2	555.3	537.6	536.1
9422.3	50°	8239.6	6052.3	1391.9	712.9	646.6	549.4	521.4	503.7	472.8	458.1
9939.3	52.5°	8361.8	5726.7	1137.1	664.3	593.6	514.1	474.3	446.3	408.0	394.7
10236.9	55°	8199.8	5089.0	908.8	605.4	519.9	466.9	422.7	385.9	355.0	338.8
10269.3	57.5°	7803.6	4277.4	718.8	536.1	441.9	413.9	369.7	332.9	306.4	290.2
9909.9	60°	7146.7	3396.6	568.6	453.7	377.1	356.4	310.8	287.2	263.7	244.5
8981.9	62.5°	6149.5	2424.4	446.3	359.4	315.2	291.6	265.1	247.5	219.5	193.0
7313.1	65°	4798.8	1483.2	344.7	263.7	253.3	241.6	225.4	209.2	175.3	148.8
4770.8	67.5°	3026.9	702.6	246.0	198.8	200.3	194.4	187.1	173.8	148.8	125.2
2137.2	70°	1333.0	340.2	162.0	151.7	148.8	148.8	154.7	150.2	126.7	104.6
742.4	72.5°	453.7	182.6	120.8	114.9	107.5	106.1	129.6	125.2	101.6	81.0
369.7	75°	237.1	122.3	88.4	82.5	64.8	78.1	103.1	97.2	72.2	53.0
244.5	77.5°	154.7	86.9	60.4	53.0	36.8	51.6	76.6	67.8	42.7	26.5
160.5	80°	97.2	57.4	35.4	25.0	17.7	28.0	41.2	29.5	16.2	5.9
94.3	82.5°	51.6	29.5	13.3	8.8	7.4	8.8	10.3	7.4	2.9	0.0
48.6	85°	20.6	10.3	4.4	2.9	1.5	0.0	2.9	1.5	0.0	0.0
8.8	87.5°	7.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
2913.5
2722.0
2278.6
1698.3
1145.9
927.9
904.4
891.1
870.5
849.9
836.6
826.3
816.0
805.7
798.3
789.5
761.5
699.6
618.6
534.7
459.6
393.3
338.8
287.2
240.1
188.5
144.3
122.3
100.2
76.6
48.6
23.6
4.4
0.0
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0.0
0.0

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