

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: P940489

Luminaire Tested: **GALN-SB3C-827-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3C-827-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19312 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

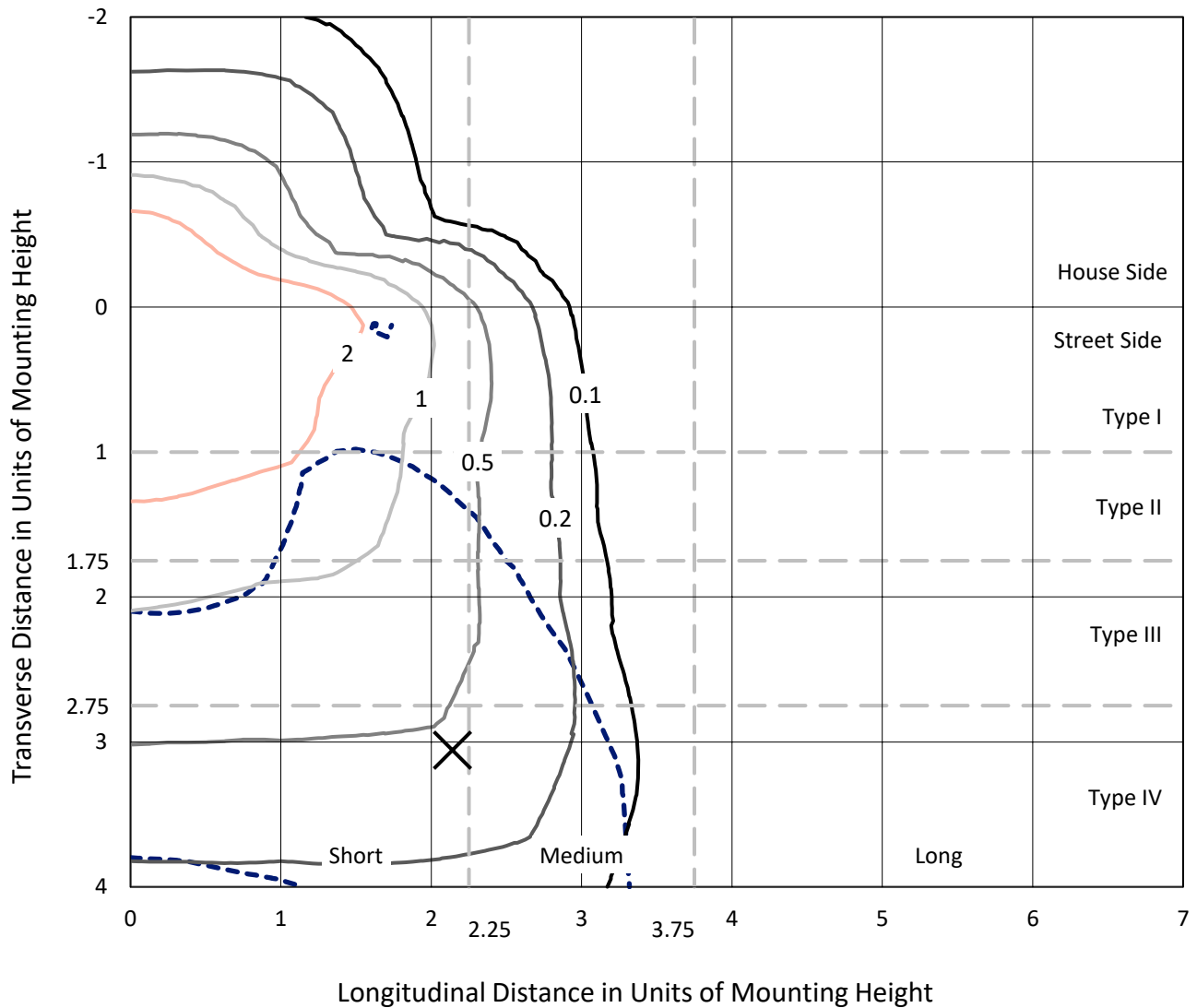
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

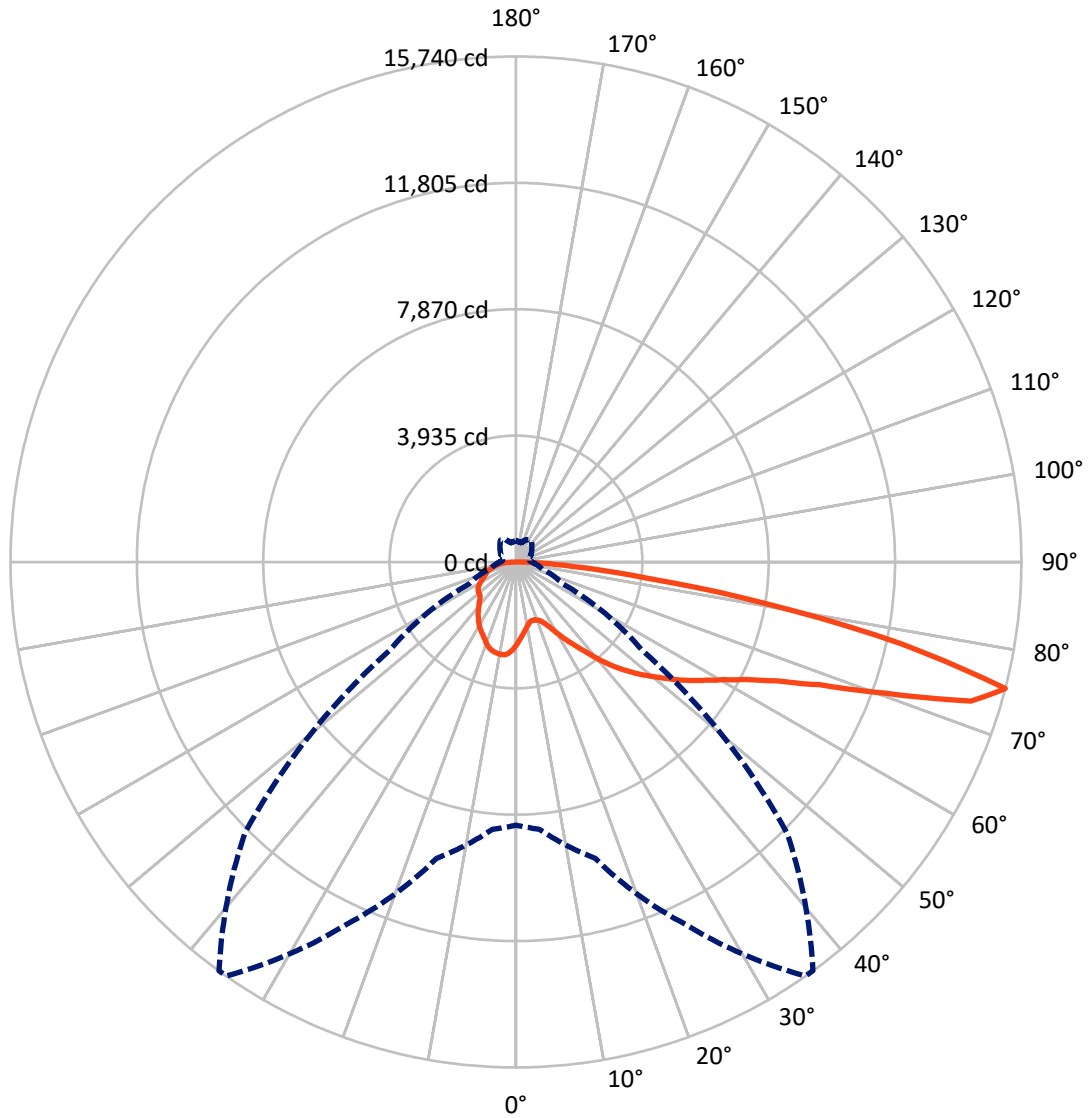
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4595.8	0.0	4595.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	14716.2	0.0	14716.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	19312.0	0.0	19312.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.7	1.3
10°-20°	702.8	3.6
20°-30°	1180.2	6.1
30°-40°	1834.2	9.5
40°-50°	2722.4	14.1
50°-60°	3758.5	19.5
60°-70°	4559.9	23.6
70°-80°	3768.4	19.5
80°-90°	542.0	2.8
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°	19312.0	100.0
0°-180°	19312.0	100.0



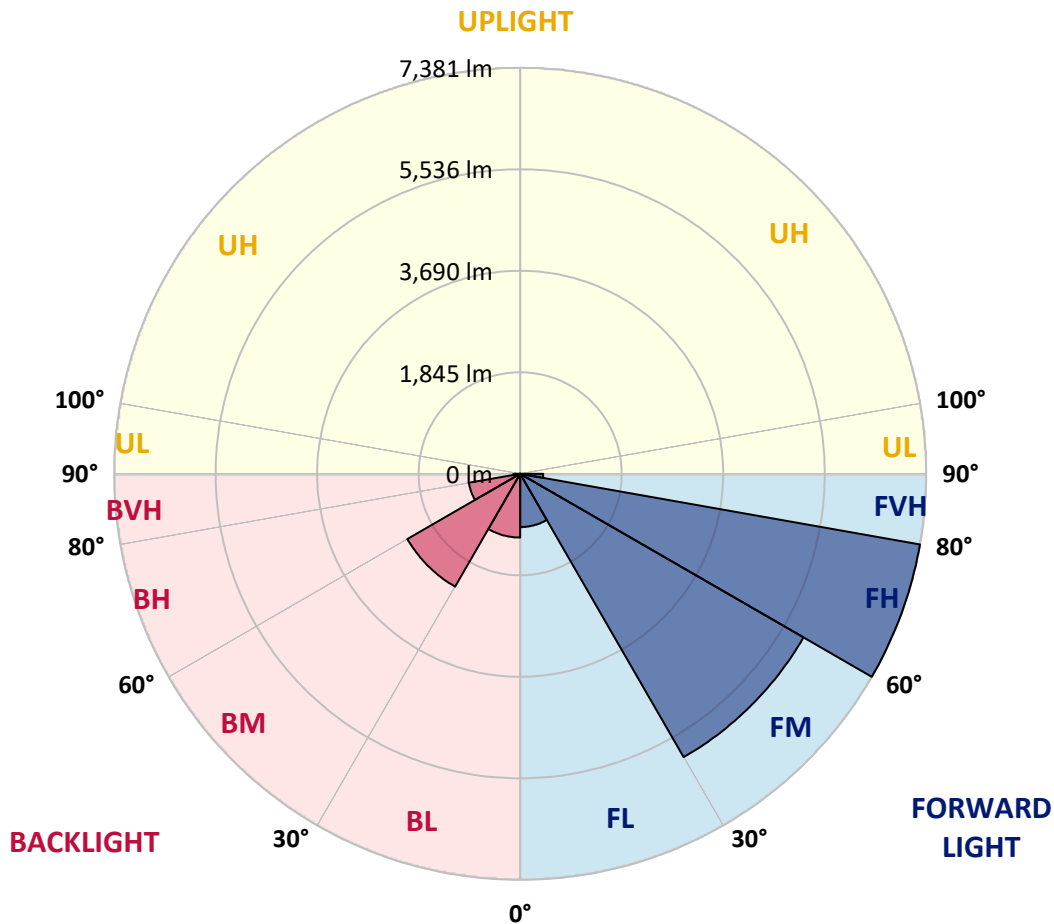
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	968.5	5.0			
FM (30°-60°)	5947.1	30.8			
FH (60°-80°)	7380.8	38.2			G3/7500
FVH (80°-90°)	420.0	2.2			G3/500
BL (0°-30°)	1158.2	6.0	B3/2500		
BM (30°-60°)	2368.0	12.3	B2/2500		
BH (60°-80°)	947.5	4.9	B2/1000		G2/1000
BVH (80°-90°)	122.0	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	2573.5	2573.5	2573.5	2573.5	2573.5	2573.5	2573.5	2573.5	2573.5	2573.5
2.5°	2373.0	2387.6	2393.9	2390.8	2406.4	2404.3	2426.3	2453.4	2491.0	2527.5
5°	2190.3	2206.0	2219.5	2232.1	2262.3	2271.7	2306.2	2358.4	2427.3	2497.2
7.5°	2020.1	2033.7	2054.6	2077.6	2128.7	2138.1	2195.5	2277.0	2373.0	2475.3
10°	1881.3	1894.9	1916.8	1942.9	2006.6	2018.0	2091.1	2199.7	2325.0	2454.4
12.5°	1821.8	1826.0	1838.5	1864.6	1919.9	1927.2	2007.6	2131.8	2278.0	2438.8
15°	1818.6	1827.0	1828.0	1841.6	1887.5	1890.7	1964.8	2088.0	2248.8	2435.6
17.5°	1850.0	1856.2	1846.8	1855.2	1893.8	1899.0	1957.5	2067.1	2239.4	2449.2
20°	1933.5	1938.7	1910.5	1899.0	1927.2	1931.4	1988.8	2080.7	2248.8	2477.4
22.5°	2111.0	2114.1	2045.2	1998.2	2000.3	2002.4	2052.5	2136.0	2285.3	2528.6
25°	2387.6	2385.5	2275.9	2185.1	2132.9	2121.4	2154.8	2225.8	2346.9	2596.4
27.5°	2711.3	2695.6	2586.0	2450.3	2336.5	2319.8	2312.5	2342.7	2434.6	2686.2
30°	3076.7	3062.0	2944.1	2766.6	2609.0	2581.8	2512.9	2497.2	2565.1	2808.4
32.5°	3477.6	3468.2	3327.2	3112.2	2901.3	2870.0	2754.1	2712.3	2765.6	2993.1
35°	3813.7	3805.4	3688.4	3467.1	3209.2	3170.6	3052.6	3005.7	3032.8	3230.1
37.5°	4117.5	4113.4	4013.1	3838.8	3572.6	3525.6	3393.0	3377.3	3372.1	3542.3
40°	4399.4	4389.0	4284.6	4192.7	3995.4	3952.6	3835.6	3822.1	3782.4	3926.5
42.5°	4711.6	4684.4	4533.0	4490.2	4437.0	4401.5	4331.5	4333.6	4245.9	4359.7
45°	4966.3	4950.6	4795.1	4770.0	4827.4	4812.8	4873.4	4889.0	4718.9	4813.9
47.5°	5239.8	5225.2	5093.7	5075.9	5231.5	5235.6	5449.7	5454.9	5180.3	5285.8
50°	5577.0	5556.2	5425.7	5447.6	5621.9	5637.6	6029.1	5993.6	5605.2	5765.0
52.5°	5799.4	5811.9	5783.7	5819.2	6057.3	6071.9	6599.1	6508.3	6026.0	6237.9
55°	5963.3	5988.4	6076.1	6157.5	6516.6	6531.3	7136.8	6997.9	6374.7	6676.4
57.5°	6174.2	6138.7	6302.6	6461.3	6953.0	6991.7	7659.8	7469.8	6683.7	7054.3
60°	6477.0	6451.9	6579.3	6814.2	7441.6	7503.2	8213.1	7894.7	6910.2	7353.9
62.5°	7090.8	7028.2	7048.0	7255.8	8057.6	8139.0	8837.4	8265.3	7023.0	7470.8
65°	8008.5	7901.0	7800.8	7944.8	8925.1	9005.5	9542.1	8556.6	6981.2	7244.3
67.5°	9164.2	9057.7	8934.5	9070.3	10203.0	10266.7	10411.8	8720.5	6652.4	6371.5
70°	10117.4	10077.7	10224.9	10783.5	12244.0	12246.1	11526.8	8584.8	5751.4	4517.4
72.5°	9991.1	9967.0	10742.7	12469.5	14816.4	14761.1	12582.3	7557.5	3874.3	2037.9
75°	8196.4	8352.0	9553.6	12439.2	15740.4	15733.0	11936.0	4804.5	1602.5	844.6
77.5°	4395.2	4641.6	6202.4	9184.0	12287.9	12472.6	8391.7	1680.8	688.0	540.8
80°	1433.4	1648.5	2472.2	4676.1	7984.5	7950.0	3596.6	659.8	470.8	383.1
82.5°	608.7	633.7	1104.5	2208.1	4097.7	4034.0	1145.3	379.0	330.9	262.0
85°	238.0	266.2	487.5	1021.0	1774.8	1736.2	413.4	187.9	211.9	171.2
87.5°	78.3	95.0	174.3	349.7	552.3	532.4	101.3	64.7	91.9	78.3
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°
2573.5	0°	2573.5	2573.5	2573.5	2573.5	2573.5	2573.5	2573.5	2573.5	2573.5	2573.5
2580.8	2.5°	2595.4	2612.1	2631.9	2661.2	2686.2	2707.1	2729.0	2742.6	2747.8	2763.5
2584.9	5°	2614.2	2650.7	2699.8	2747.8	2794.8	2823.0	2848.0	2860.6	2872.0	2880.4
2596.4	7.5°	2645.5	2692.5	2769.7	2832.4	2872.0	2895.0	2911.7	2907.5	2911.7	2913.8
2609.0	10°	2672.6	2738.4	2830.3	2889.8	2920.1	2921.1	2916.9	2902.3	2895.0	2896.0
2627.7	12.5°	2705.0	2778.1	2877.3	2927.4	2935.7	2912.8	2895.0	2870.0	2860.6	2856.4
2655.9	15°	2748.8	2832.4	2928.4	2947.2	2926.3	2897.1	2866.8	2826.1	2805.2	2788.5
2704.0	17.5°	2802.1	2894.0	2968.1	2954.5	2909.6	2861.6	2812.5	2750.9	2708.1	2690.4
2769.7	20°	2876.2	2958.7	2998.4	2938.9	2871.0	2797.9	2714.4	2639.2	2599.6	2581.8
2853.2	22.5°	2966.0	3045.3	3027.6	2911.7	2815.7	2698.7	2594.3	2539.0	2519.2	2506.6
2960.8	25°	3073.5	3141.4	3048.5	2872.0	2724.8	2567.2	2486.8	2469.1	2459.7	2450.3
3092.3	27.5°	3213.4	3250.0	3064.1	2813.6	2582.9	2427.3	2398.1	2401.2	2398.1	2382.4
3275.0	30°	3398.2	3390.9	3078.7	2718.6	2420.0	2301.0	2303.1	2316.6	2318.7	2308.3
3529.8	32.5°	3641.5	3567.3	3086.1	2595.4	2264.4	2190.3	2192.4	2207.0	2217.5	2199.7
3862.8	35°	3935.9	3773.0	3074.6	2440.9	2144.4	2084.9	2069.2	2073.4	2076.5	2059.8
4266.8	37.5°	4279.3	4003.7	3023.4	2269.7	2045.2	1981.5	1948.1	1919.9	1903.2	1887.5
4724.1	40°	4656.2	4255.3	2929.5	2102.6	1934.5	1871.9	1821.8	1768.5	1712.2	1691.3
5208.5	42.5°	5050.9	4514.2	2815.7	1942.9	1807.2	1756.0	1702.8	1625.5	1540.9	1498.1
5711.7	45°	5460.1	4779.4	2704.0	1785.2	1676.7	1654.7	1593.1	1500.2	1408.4	1354.1
6216.0	47.5°	5861.0	5030.0	2540.0	1626.5	1554.5	1578.5	1530.5	1444.9	1342.6	1257.0
6716.0	50°	6244.2	5264.9	2271.7	1465.8	1455.3	1555.6	1509.6	1386.4	1269.5	1159.9
7206.7	52.5°	6624.2	5454.9	1928.3	1319.6	1402.1	1549.3	1482.5	1346.8	1203.7	1088.9
7668.2	55°	6946.8	5553.0	1597.3	1194.3	1324.8	1496.0	1450.1	1299.8	1110.8	988.7
7984.5	57.5°	7130.5	5473.7	1321.7	1071.1	1218.3	1408.4	1394.8	1199.6	1000.1	906.2
8046.1	60°	7051.2	5152.1	1096.2	963.6	1117.1	1313.3	1298.7	1100.4	915.6	826.8
7716.2	62.5°	6613.7	4539.3	917.7	869.7	1025.2	1216.3	1202.7	1024.2	850.9	765.3
6840.3	65°	5732.6	3692.6	778.8	791.4	932.3	1099.3	1119.2	960.5	799.7	716.2
5292.0	67.5°	4372.3	2674.7	670.2	723.5	841.5	984.5	1041.9	914.5	756.9	677.6
3062.0	70°	2492.0	1519.0	578.4	657.7	761.1	878.0	982.4	878.0	711.0	645.2
1147.4	72.5°	944.8	697.4	500.1	591.9	683.8	788.2	916.6	820.6	657.7	608.7
593.0	75°	504.3	424.9	420.7	514.7	595.1	700.5	834.2	764.2	618.0	643.1
410.3	77.5°	343.5	300.7	351.8	440.6	498.0	603.4	746.5	678.6	535.6	533.5
284.0	80°	238.0	213.0	286.1	355.0	385.2	507.4	651.5	582.6	436.4	407.2
175.4	82.5°	143.0	138.9	214.0	265.2	272.5	391.5	539.7	488.6	357.0	311.1
104.4	85°	78.3	82.5	136.8	155.6	158.7	273.5	422.8	377.9	274.6	230.7
37.6	87.5°	21.9	28.2	50.1	61.6	76.2	142.0	251.6	224.5	137.8	96.0
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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180°
2573.5
2762.4
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2898.1
2854.3
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2691.4
2579.7
2508.7
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2208.1
2071.3
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