

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: P940994

Luminaire Tested: **GALN-SB4B-827-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940994
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14330 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

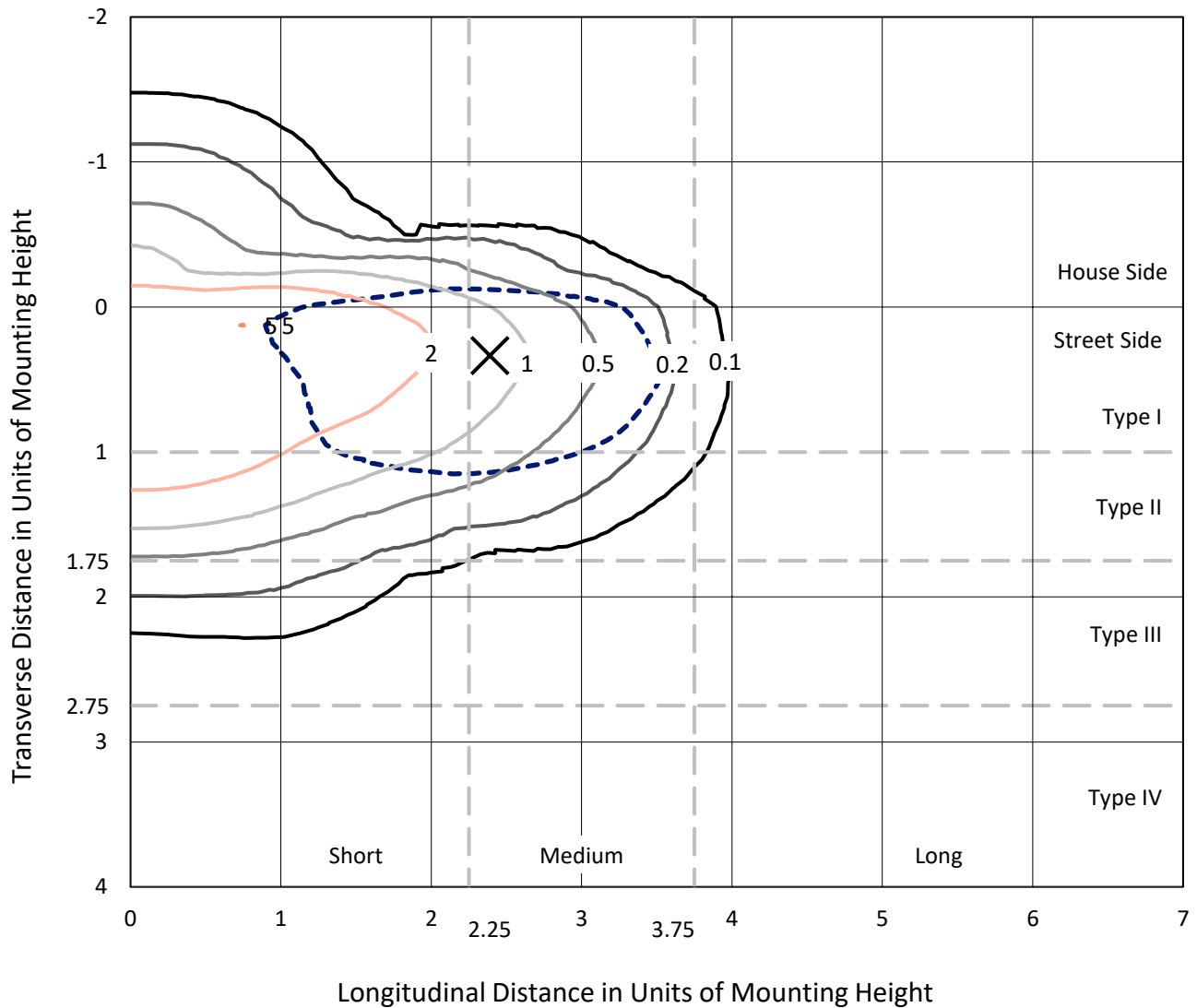
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

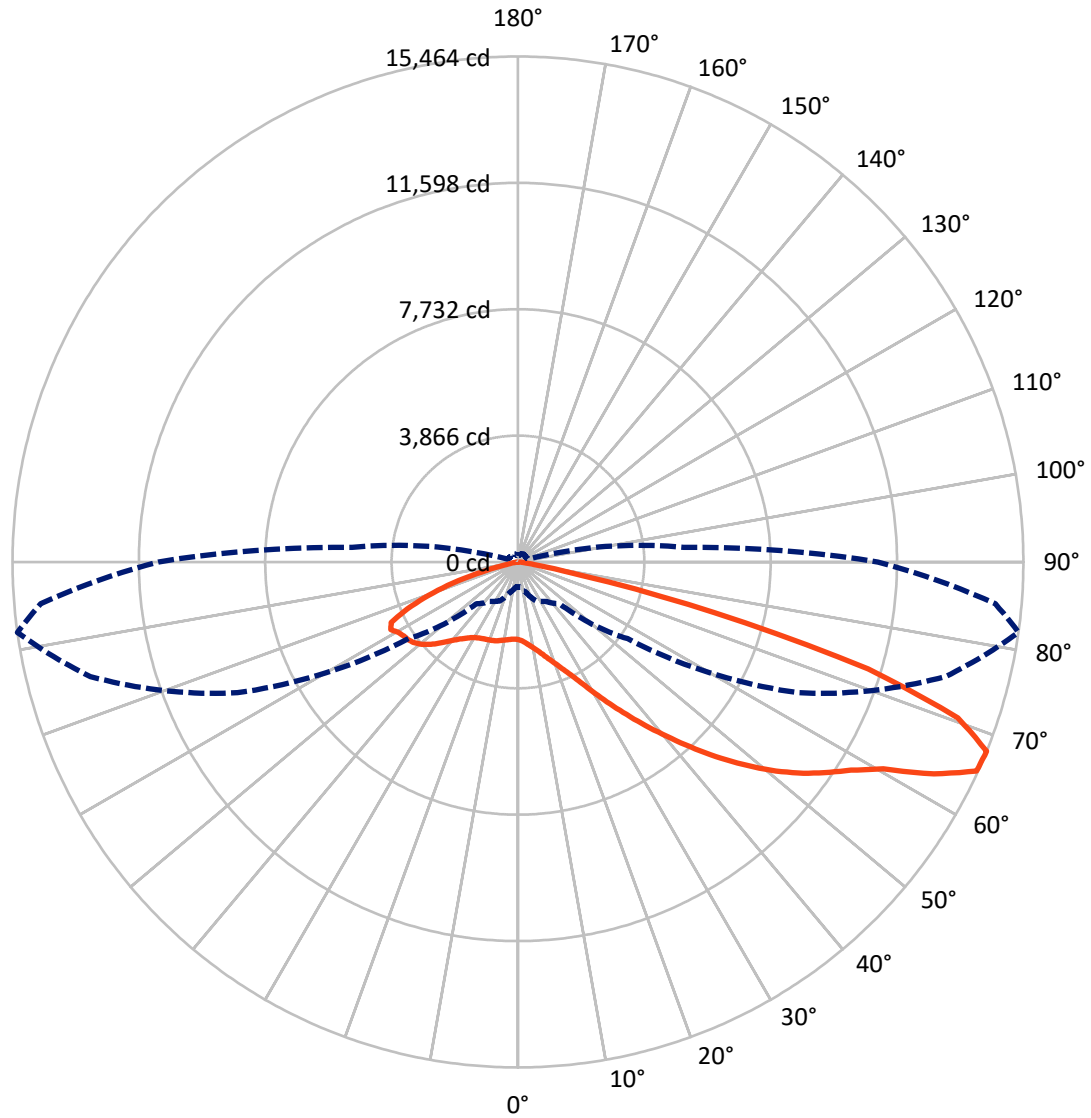
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2595.7	0.0	2595.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	11734.2	0.0	11734.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	14330.0	0.0	14330.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.5	1.5
10°-20°	549.6	3.8
20°-30°	880.3	6.1
30°-40°	1556.7	10.9
40°-50°	2727.4	19.0
50°-60°	3637.6	25.4
60°-70°	3386.4	23.6
70°-80°	1299.7	9.1
80°-90°	80.7	0.6
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°	14330.0	100.0
0°-180°	14330.0	100.0

Coefficient of Utilization



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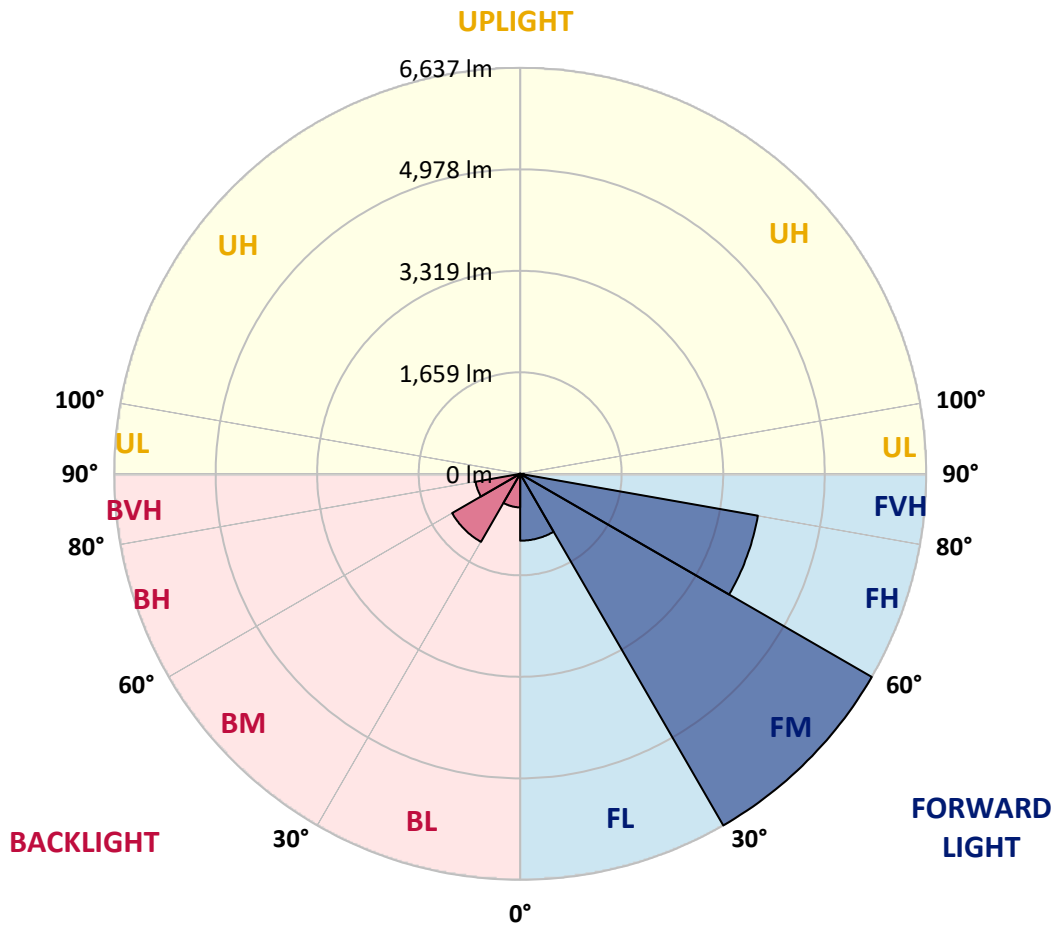
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1093.2	7.6			
FM (30°-60°)	6637.1	46.3			
FH (60°-80°)	3945.3	27.5			G2/5000
FVH (80°-90°)	58.7	0.4			G1/100
BL (0°-30°)	548.2	3.8	B2/1000		
BM (30°-60°)	1284.6	9.0	B2/2500		
BH (60°-80°)	740.9	5.2	B2/1000		G2/1000
BVH (80°-90°)	22.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2374.0	2374.0	2374.0	2374.0	2374.0	2374.0	2374.0	2374.0	2374.0	2374.0
2.5°	2509.2	2523.6	2515.3	2511.2	2504.0	2493.7	2485.4	2459.6	2432.8	2415.3
5°	2559.7	2574.2	2573.1	2577.2	2582.4	2585.5	2583.4	2554.5	2516.4	2486.5
7.5°	2516.4	2532.9	2546.3	2566.9	2603.0	2641.2	2659.8	2653.6	2614.4	2573.1
10°	2393.6	2411.1	2443.1	2491.6	2568.0	2650.5	2719.6	2751.6	2726.8	2681.4
12.5°	2168.7	2186.2	2249.2	2354.4	2482.3	2625.7	2757.8	2843.4	2849.6	2804.2
15°	1915.9	1933.5	2000.5	2132.6	2327.6	2557.6	2778.4	2940.4	2995.1	2955.9
17.5°	1759.1	1774.6	1825.1	1931.4	2134.6	2421.5	2771.2	3043.6	3168.4	3137.5
20°	1711.6	1725.0	1748.8	1823.1	1992.3	2280.1	2723.8	3140.6	3355.2	3337.6
22.5°	1762.2	1774.6	1781.8	1814.8	1921.1	2187.3	2663.9	3239.6	3571.8	3573.9
25°	1878.8	1891.1	1882.9	1903.5	1950.0	2158.4	2641.2	3356.2	3844.2	3866.9
27.5°	2070.7	2071.7	2052.1	2051.1	2058.3	2201.7	2664.9	3481.0	4187.8	4230.1
30°	2455.5	2440.0	2364.7	2283.2	2246.1	2331.7	2731.0	3628.6	4593.2	4668.5
32.5°	3048.7	3026.0	2887.8	2692.8	2496.8	2541.1	2849.6	3796.7	5034.8	5171.0
35°	3692.5	3686.3	3541.9	3252.0	2909.5	2839.3	3042.6	4017.5	5516.6	5733.3
37.5°	4290.9	4287.8	4205.3	3863.8	3447.0	3255.1	3352.1	4306.4	6032.5	6346.1
40°	4837.8	4847.0	4764.5	4459.1	4039.2	3788.5	3773.0	4663.4	6606.1	7013.7
42.5°	5310.3	5320.6	5237.0	5011.1	4624.2	4378.6	4289.9	5100.8	7166.4	7730.7
45°	5631.1	5695.1	5682.7	5502.2	5224.6	4969.8	4911.0	5649.7	7805.0	8491.1
47.5°	5721.9	5780.7	5873.6	5898.4	5729.2	5478.5	5548.6	6311.1	8450.8	9252.5
50°	5498.1	5552.7	5745.7	6002.6	6120.2	6042.8	6168.7	7019.8	9112.2	10011.8
52.5°	5056.5	5112.2	5355.7	5762.2	6241.9	6485.4	6790.8	7718.3	9752.9	10731.0
55°	4417.8	4476.6	4789.3	5249.4	6009.8	6668.0	7309.8	8415.8	10339.9	11377.8
57.5°	3549.1	3592.5	3917.5	4561.3	5425.8	6486.4	7692.5	9177.2	10892.9	12013.4
60°	2313.1	2351.3	2728.9	3447.0	4458.1	5879.8	7768.9	10026.3	11627.5	12839.8
62.5°	1538.3	1564.1	1788.0	2315.2	3139.5	4715.0	7322.1	10704.1	12704.6	14278.0
65°	1055.5	1081.2	1305.1	1672.4	2028.4	3118.9	6037.6	10614.4	13680.7	15420.1
67.5°	753.2	774.8	964.7	1311.3	1468.1	1811.7	4092.8	9467.1	13540.3	15463.5
70°	539.6	552.0	708.8	1021.4	1166.9	1088.5	2276.0	7240.6	11855.5	14279.1
72.5°	377.6	381.7	492.1	777.9	939.9	794.4	1083.3	4827.4	8966.7	11207.6
75°	255.9	261.0	331.2	570.5	754.2	606.7	573.6	2588.6	5263.9	6203.8
77.5°	156.8	158.9	213.6	390.0	564.4	462.2	369.4	1096.7	2036.6	1999.5
80°	88.7	88.7	136.2	242.5	384.8	298.2	259.0	466.3	644.8	566.4
82.5°	49.5	50.6	99.0	150.6	254.8	176.4	142.4	215.6	278.6	246.6
85°	20.6	22.7	60.9	71.2	121.7	87.7	57.8	90.8	103.2	91.8
87.5°	2.1	3.1	18.6	13.4	14.4	17.5	8.3	17.5	14.4	14.4
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°
2374.0	0°	2374.0	2374.0	2374.0	2374.0	2374.0	2374.0	2374.0	2374.0	2374.0	2374.0
2409.1	2.5°	2389.5	2374.0	2334.8	2289.4	2229.6	2200.7	2161.5	2134.6	2111.9	2114.0
2468.9	5°	2435.9	2396.7	2309.0	2199.6	2063.4	1966.5	1863.3	1792.1	1734.3	1721.9
2551.5	7.5°	2499.9	2438.0	2284.2	2087.2	1857.1	1682.7	1527.0	1426.9	1355.7	1333.0
2651.5	10°	2582.4	2492.6	2252.3	1945.8	1614.6	1392.8	1225.7	1147.3	1098.8	1082.3
2769.1	12.5°	2678.4	2555.6	2210.0	1773.5	1365.0	1151.4	1045.1	1005.9	990.5	985.3
2913.6	15°	2799.1	2634.0	2146.0	1569.3	1153.5	1003.9	958.5	953.3	955.4	953.3
3086.9	17.5°	2942.5	2719.6	2041.8	1358.8	1011.1	928.6	912.0	916.2	921.3	920.3
3280.9	20°	3099.3	2804.2	1908.7	1172.0	914.1	874.9	865.6	869.7	873.9	871.8
3504.8	22.5°	3277.8	2895.0	1761.2	1026.6	849.1	825.4	815.1	816.1	816.1	812.0
3788.5	25°	3491.4	2995.1	1606.4	923.4	799.6	781.0	768.6	764.5	758.3	745.9
4133.1	27.5°	3746.2	3101.4	1457.8	851.2	760.4	742.8	728.4	718.1	702.6	682.0
4546.8	30°	4033.0	3230.3	1332.0	805.8	729.4	711.9	695.4	679.9	657.2	631.4
5022.4	32.5°	4370.4	3368.6	1240.1	775.9	701.6	683.0	663.4	644.8	620.1	594.3
5556.9	35°	4772.8	3535.7	1186.5	755.2	679.9	655.1	633.5	612.8	594.3	571.6
6137.7	37.5°	5209.2	3713.2	1170.0	744.9	665.5	627.3	602.5	588.1	586.0	572.6
6766.0	40°	5686.9	3923.6	1182.4	738.7	650.0	600.5	573.6	570.5	575.7	552.0
7437.7	42.5°	6192.4	4173.3	1203.0	731.5	628.3	573.6	547.8	547.8	543.7	510.7
8147.5	45°	6739.2	4461.2	1223.6	714.0	602.5	546.8	527.2	520.0	502.4	470.5
8861.5	47.5°	7290.2	4754.2	1239.1	682.0	571.6	524.1	506.6	490.1	464.3	435.4
9562.0	50°	7813.2	5017.3	1222.6	634.5	536.5	502.4	483.9	461.2	433.3	413.7
10225.4	52.5°	8280.6	5245.3	1152.4	578.8	499.4	479.8	463.2	439.5	416.8	396.2
10823.8	55°	8687.1	5430.0	1028.6	526.2	466.3	460.1	443.6	413.7	382.8	365.2
11417.1	57.5°	9077.1	5570.3	873.9	482.8	436.4	438.5	413.7	386.9	358.0	339.4
12216.6	60°	9596.1	5758.0	717.0	442.6	404.4	410.6	383.8	364.2	328.1	304.4
13587.8	62.5°	10425.6	6050.0	569.5	393.1	367.3	369.4	358.0	334.3	290.9	263.1
14604.0	65°	11083.8	5942.7	448.8	339.4	325.0	328.1	328.1	302.3	255.9	223.9
14658.7	67.5°	11009.5	5088.5	358.0	286.8	284.8	286.8	294.0	272.4	227.0	201.2
13542.4	70°	10141.8	4047.5	286.8	238.3	247.6	242.5	263.1	248.6	204.3	178.5
10498.8	72.5°	8275.5	2915.7	218.7	197.1	189.8	198.1	237.3	223.9	170.2	141.3
5561.0	75°	4835.7	1555.8	163.0	155.8	137.2	165.1	210.5	190.9	130.0	104.2
1704.4	77.5°	1574.4	542.7	119.7	114.5	102.1	133.1	179.5	160.9	106.3	82.5
499.4	80°	422.0	164.0	81.5	75.3	66.0	99.0	142.4	127.9	76.3	53.6
214.6	82.5°	169.2	69.1	47.5	42.3	36.1	68.1	112.5	103.2	56.7	34.0
67.1	85°	54.7	22.7	17.5	13.4	16.5	42.3	67.1	70.2	40.2	17.5
10.3	87.5°	7.2	3.1	3.1	4.1	3.1	7.2	20.6	19.6	11.3	2.1
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°
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2374.0
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