

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: P941178

Luminaire Tested: **GALN-SB4C-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941178
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-SB4C-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 615mA 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: 20420 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

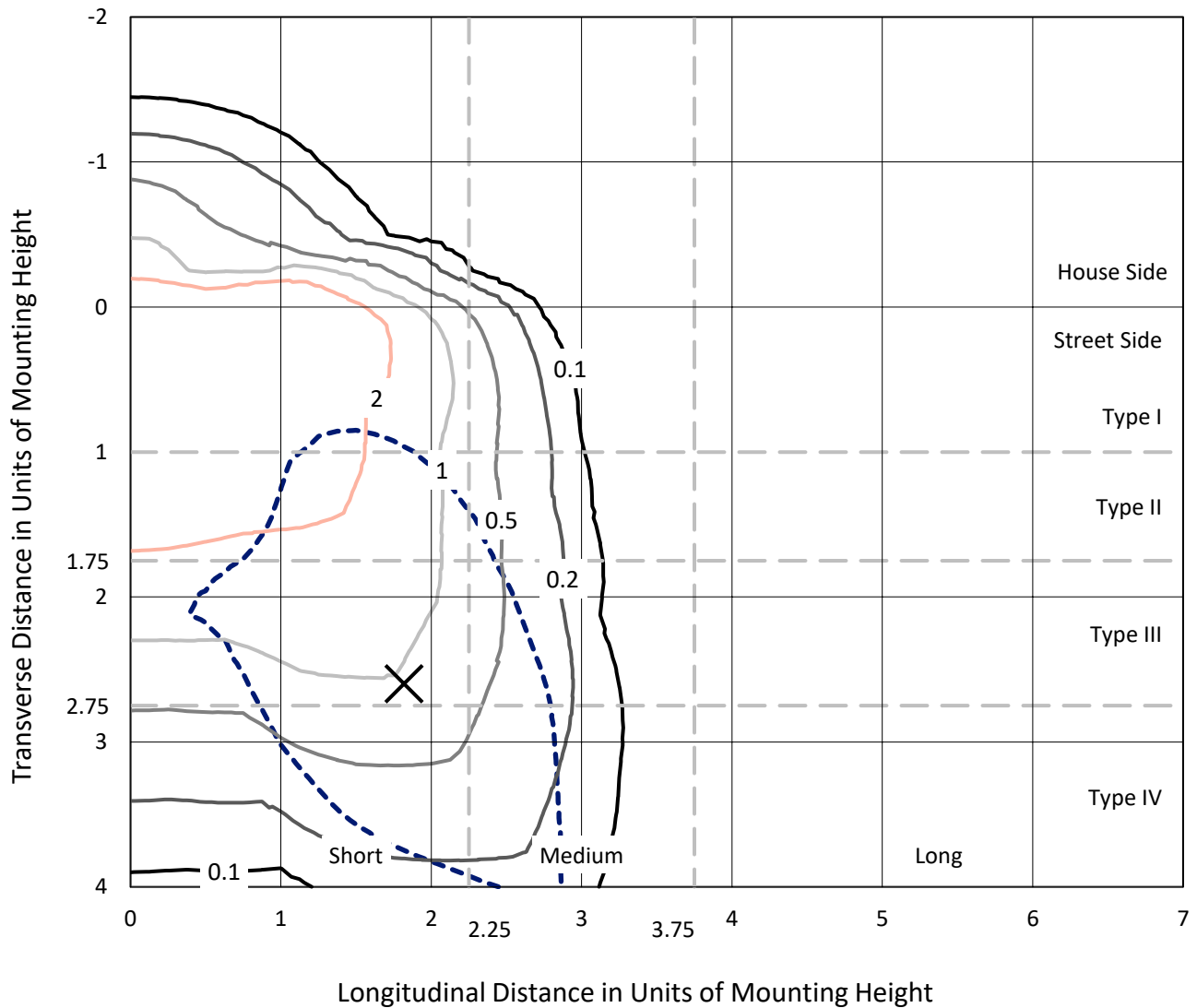
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

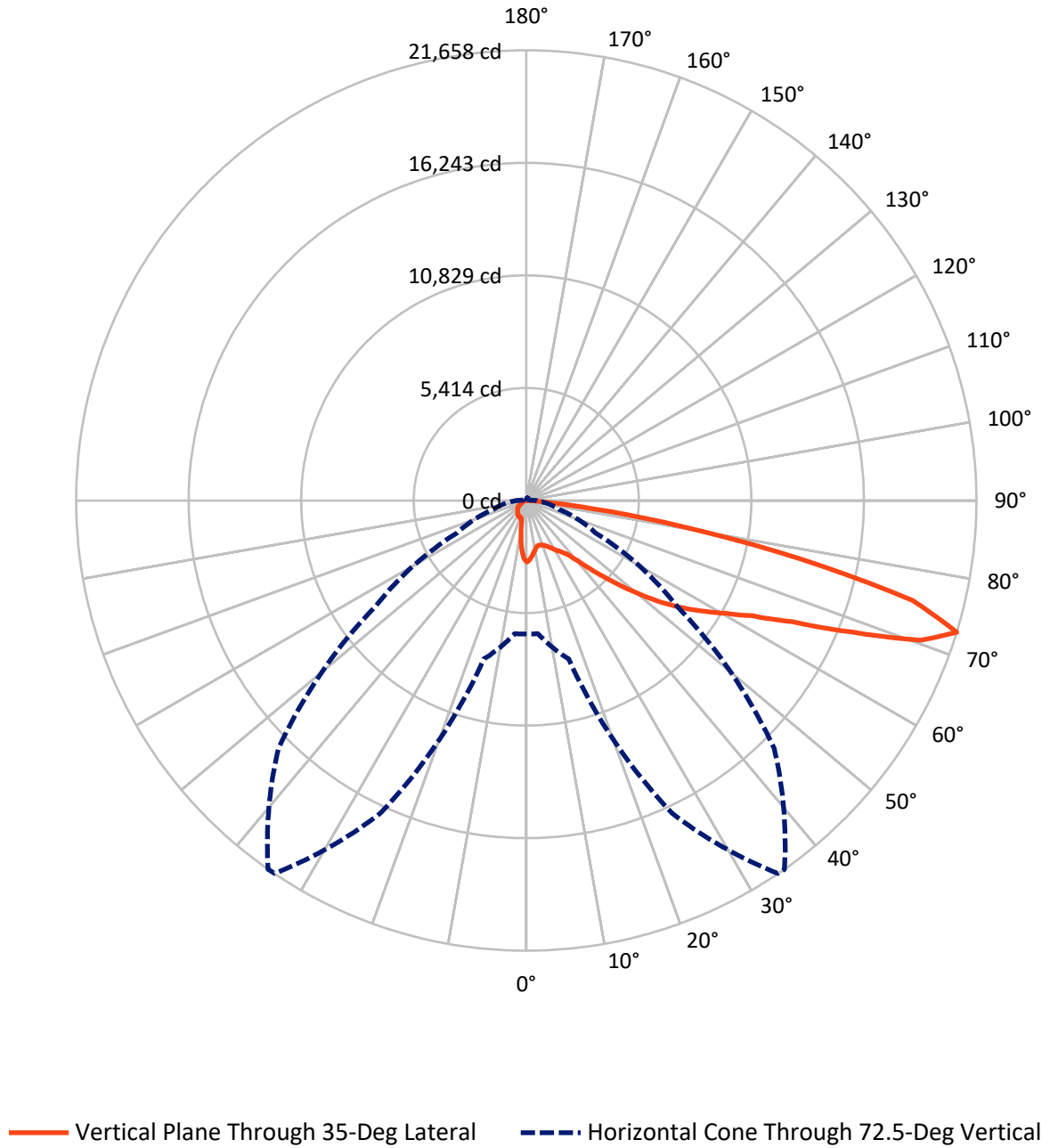
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	2298.2	0.0	2298.2
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	18121.8	0.0	18121.8
	% Fixture	88.7	0.0	88.7
Total	Lumens	20420.0	0.0	20420.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.2	1.2
10°-20°	568.9	2.8
20°-30°	924.2	4.5
30°-40°	1542.0	7.6
40°-50°	2917.6	14.3
50°-60°	4636.0	22.7
60°-70°	5735.0	28.1
70°-80°	3564.9	17.5
80°-90°	288.1	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°	20420.0	100.0
0°-180°	20420.0	100.0

Coefficient of Utilization



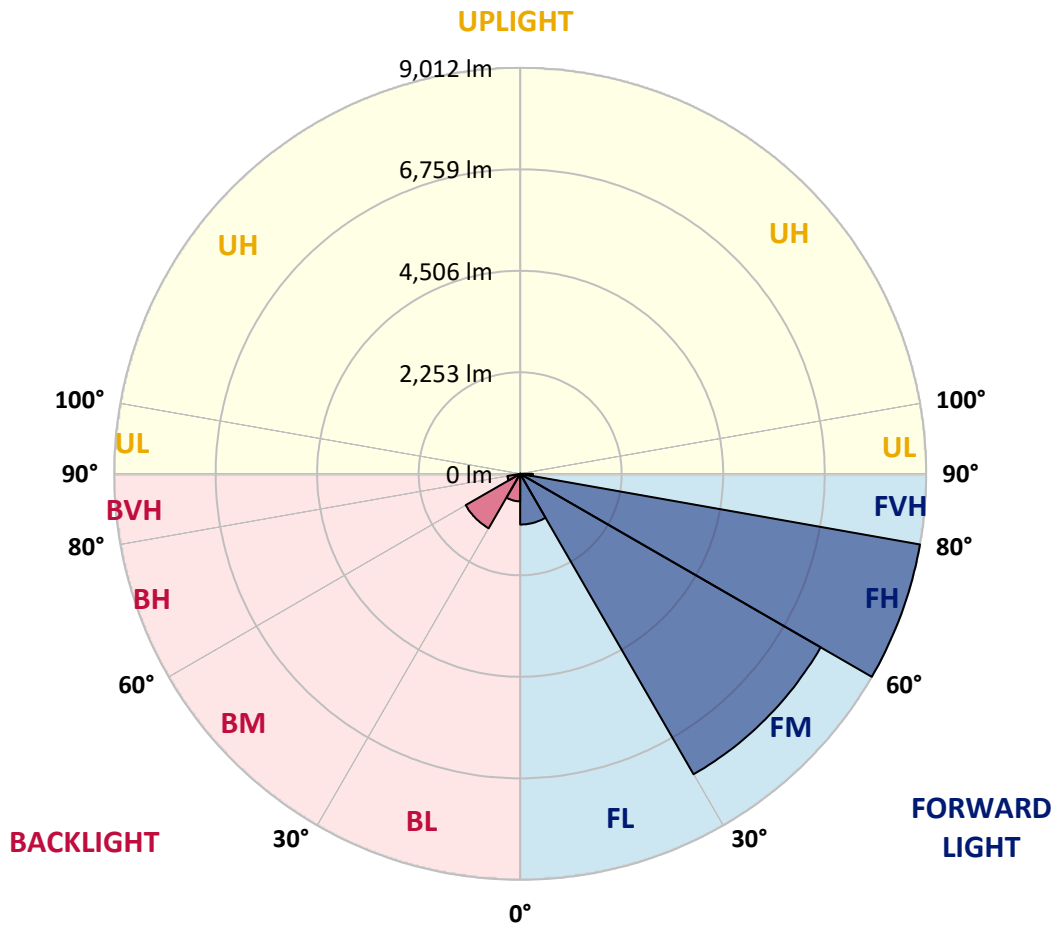
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1125.7	5.5			
FM (30°-60°)	7700.4	37.7			
FH (60°-80°)	9011.6	44.1			G4/12000
FVH (80°-90°)	284.2	1.4			G3/500
BL (0°-30°)	610.7	3.0	B2/1000		
BM (30°-60°)	1395.2	6.8	B2/2500		
BH (60°-80°)	288.4	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°	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5
2.5°	2827.9	2851.8	2856.3	2863.8	2863.8	2872.8	2887.7	2908.7	2943.1	2961.0
5°	2606.4	2624.4	2646.8	2664.8	2699.2	2703.7	2762.0	2818.9	2898.2	2958.0
7.5°	2383.5	2404.4	2434.4	2477.8	2522.6	2536.1	2624.4	2720.1	2845.8	2958.0
10°	2226.4	2227.9	2254.8	2298.2	2370.0	2386.5	2494.2	2630.4	2787.5	2940.1
12.5°	2138.1	2148.6	2160.6	2193.5	2262.3	2272.8	2388.0	2548.1	2729.1	2929.6
15°	2138.1	2145.6	2153.1	2169.5	2224.9	2233.9	2335.6	2495.7	2699.2	2934.1
17.5°	2160.6	2172.5	2166.5	2186.0	2244.3	2250.3	2340.1	2480.7	2697.7	2962.5
20°	2214.4	2223.4	2211.4	2223.4	2281.8	2293.7	2386.5	2509.2	2723.1	3011.9
22.5°	2299.7	2304.2	2275.8	2284.7	2344.6	2359.6	2467.3	2590.0	2784.5	3091.2
25°	2407.4	2416.4	2373.0	2383.5	2440.4	2458.3	2582.5	2711.2	2881.7	3200.4
27.5°	2531.6	2536.1	2498.7	2497.2	2570.5	2596.0	2721.6	2860.8	3011.9	3338.1
30°	2673.8	2687.2	2651.3	2645.3	2738.1	2759.0	2883.2	3044.8	3203.4	3544.6
32.5°	2786.0	2796.5	2775.5	2790.5	2884.7	2901.2	3079.2	3305.2	3504.2	3837.8
35°	2947.6	2953.6	2905.7	2932.6	3040.3	3082.2	3347.1	3670.3	3882.7	4205.9
37.5°	3532.6	3532.6	3329.1	3195.9	3299.2	3336.6	3713.6	4129.6	4349.5	4699.7
40°	4342.1	4328.6	4030.8	3758.5	3745.1	3818.4	4235.8	4708.6	4952.5	5292.2
42.5°	5205.4	5184.4	4779.0	4509.6	4464.7	4490.2	4838.8	5422.3	5670.7	6014.8
45°	5971.5	5965.5	5594.4	5232.3	5151.5	5232.3	5591.4	6257.2	6435.3	6797.4
47.5°	6613.3	6613.3	6342.5	6106.1	6064.2	6112.1	6610.3	7183.4	7166.9	7630.8
50°	7352.5	7346.5	7089.1	6987.4	7030.8	7098.1	7783.4	8158.9	7924.0	8449.2
52.5°	7870.2	7906.1	7817.8	7801.3	8022.8	8139.5	8974.4	9113.5	8601.8	9225.8
55°	8280.1	8322.0	8423.8	8539.0	8965.4	9118.0	10128.0	10018.8	9168.9	9899.1
57.5°	8860.7	8800.8	8957.9	9185.4	9875.1	10059.2	11245.7	10873.1	9625.2	10445.2
60°	9565.4	9574.4	9601.3	9888.6	10783.3	11019.7	12346.9	11681.1	9918.5	10780.3
62.5°	10412.3	10425.7	10481.1	10922.5	12002.8	12225.7	13519.9	12342.4	10053.2	10686.1
65°	10353.9	10410.8	11028.7	12538.4	13856.6	14076.5	14889.0	12806.2	9849.7	9824.2
67.5°	9432.2	9525.0	10558.9	14468.5	16651.5	16896.9	16543.8	12897.5	8971.4	7639.7
70°	8223.3	8256.2	9499.6	16204.2	19887.9	20136.3	18025.1	11893.5	6807.8	4261.3
72.5°	6421.8	6429.3	7888.1	16606.7	21644.5	21657.9	16862.5	8829.3	3661.3	1636.9
75°	4587.4	4542.6	5283.2	13467.6	19042.5	19195.1	12641.6	4141.6	1399.0	773.6
77.5°	2459.8	2509.2	2989.5	7986.9	13154.9	13415.2	6897.6	1194.0	712.2	526.7
80°	760.1	802.0	1225.4	3656.8	7451.2	7608.3	2557.1	531.2	496.7	375.6
82.5°	239.4	248.4	571.6	1536.6	3092.7	3164.5	740.6	300.7	339.6	248.4
85°	68.8	70.3	254.4	573.1	764.6	779.5	208.0	116.7	194.5	154.1
87.5°	7.5	23.9	95.8	95.8	67.3	65.8	22.4	25.4	55.4	19.5
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°
2959.5	0°	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5
2973.0	2.5°	2965.5	2967.0	2947.6	2914.7	2878.7	2848.8	2811.4	2781.5	2760.5	2754.6
2999.9	5°	2986.5	2976.0	2920.6	2820.4	2700.7	2597.5	2482.2	2391.0	2331.1	2305.7
3028.4	7.5°	3017.9	2988.0	2866.8	2669.3	2440.4	2236.9	2030.4	1870.3	1768.5	1717.7
3055.3	10°	3044.8	2985.0	2777.0	2450.8	2100.7	1792.5	1514.2	1321.2	1213.4	1162.6
3086.7	12.5°	3070.3	2983.5	2660.3	2192.0	1717.7	1340.6	1081.8	986.0	956.1	945.6
3137.6	15°	3118.1	2988.0	2513.7	1895.7	1336.1	1012.9	918.7	917.2	923.2	920.2
3215.4	17.5°	3184.0	2992.5	2347.6	1581.5	1030.9	893.2	888.8	902.2	911.2	906.7
3312.7	20°	3269.3	3010.4	2171.0	1270.3	885.8	863.3	873.8	885.8	893.2	885.8
3442.8	22.5°	3389.0	3041.8	1978.0	1020.4	839.4	845.4	854.3	867.8	875.3	864.8
3608.9	25°	3535.6	3091.2	1788.0	887.3	816.9	824.4	837.9	852.9	861.8	851.4
3818.4	27.5°	3725.6	3170.5	1612.9	857.3	794.5	799.0	818.4	840.9	852.9	839.4
4116.1	30°	4000.9	3300.7	1461.8	870.8	781.0	770.6	797.5	828.9	842.4	830.4
4521.6	32.5°	4366.0	3484.7	1369.1	891.8	775.0	737.6	763.1	803.5	825.9	818.4
5051.3	35°	4844.8	3764.5	1333.1	915.7	770.6	703.2	721.2	764.6	803.5	811.0
5718.6	37.5°	5425.3	4153.5	1343.6	926.2	757.1	674.8	683.8	721.2	772.1	796.0
6469.7	40°	6085.2	4606.9	1403.5	915.7	742.1	650.9	652.4	680.8	725.7	761.6
7277.7	42.5°	6766.0	5136.6	1514.2	876.8	728.7	629.9	625.4	644.9	674.8	700.2
8084.1	45°	7413.8	5681.2	1623.4	822.9	712.2	609.0	598.5	606.0	612.0	622.4
8869.7	47.5°	7979.4	6064.2	1592.0	773.6	689.8	585.0	567.1	564.1	546.1	544.6
9571.4	50°	8369.9	6148.0	1413.9	724.2	656.8	558.1	529.7	511.7	480.3	465.3
10096.6	52.5°	8494.1	5817.3	1155.1	674.8	603.0	522.2	481.8	453.4	414.5	401.0
10398.8	55°	8329.5	5169.5	923.2	615.0	528.2	474.3	429.4	392.0	360.6	344.1
10431.7	57.5°	7927.0	4345.1	730.2	544.6	448.9	420.4	375.6	338.1	311.2	294.8
10066.6	60°	7259.7	3450.3	577.5	460.8	383.0	362.1	315.7	291.8	267.8	248.4
9124.0	62.5°	6246.8	2462.8	453.4	365.1	320.2	296.3	269.3	251.4	222.9	196.0
7428.8	65°	4874.7	1506.7	350.1	267.8	257.4	245.4	228.9	212.5	178.1	151.1
4846.3	67.5°	3074.8	713.7	249.9	202.0	203.5	197.5	190.0	176.6	151.1	127.2
2171.0	70°	1354.1	345.6	164.6	154.1	151.1	151.1	157.1	152.6	128.7	106.2
754.1	72.5°	460.8	185.5	122.7	116.7	109.2	107.7	131.7	127.2	103.2	82.3
375.6	75°	240.9	124.2	89.8	83.8	65.8	79.3	104.7	98.8	73.3	53.9
248.4	77.5°	157.1	88.3	61.3	53.9	37.4	52.4	77.8	68.8	43.4	26.9
163.1	80°	98.8	58.4	35.9	25.4	18.0	28.4	41.9	29.9	16.5	6.0
95.8	82.5°	52.4	29.9	13.5	9.0	7.5	9.0	10.5	7.5	3.0	0.0
49.4	85°	20.9	10.5	4.5	3.0	1.5	0.0	3.0	1.5	0.0	0.0
9.0	87.5°	7.5	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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180°
2959.5
2765.0
2314.7
1725.2
1164.1
942.6
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905.2
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839.4
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818.4
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802.0
773.6
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