

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: P941708

Luminaire Tested: **GALN-SB5B-840-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941708
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-SB5B-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 4000K, 450mA 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: 20600 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

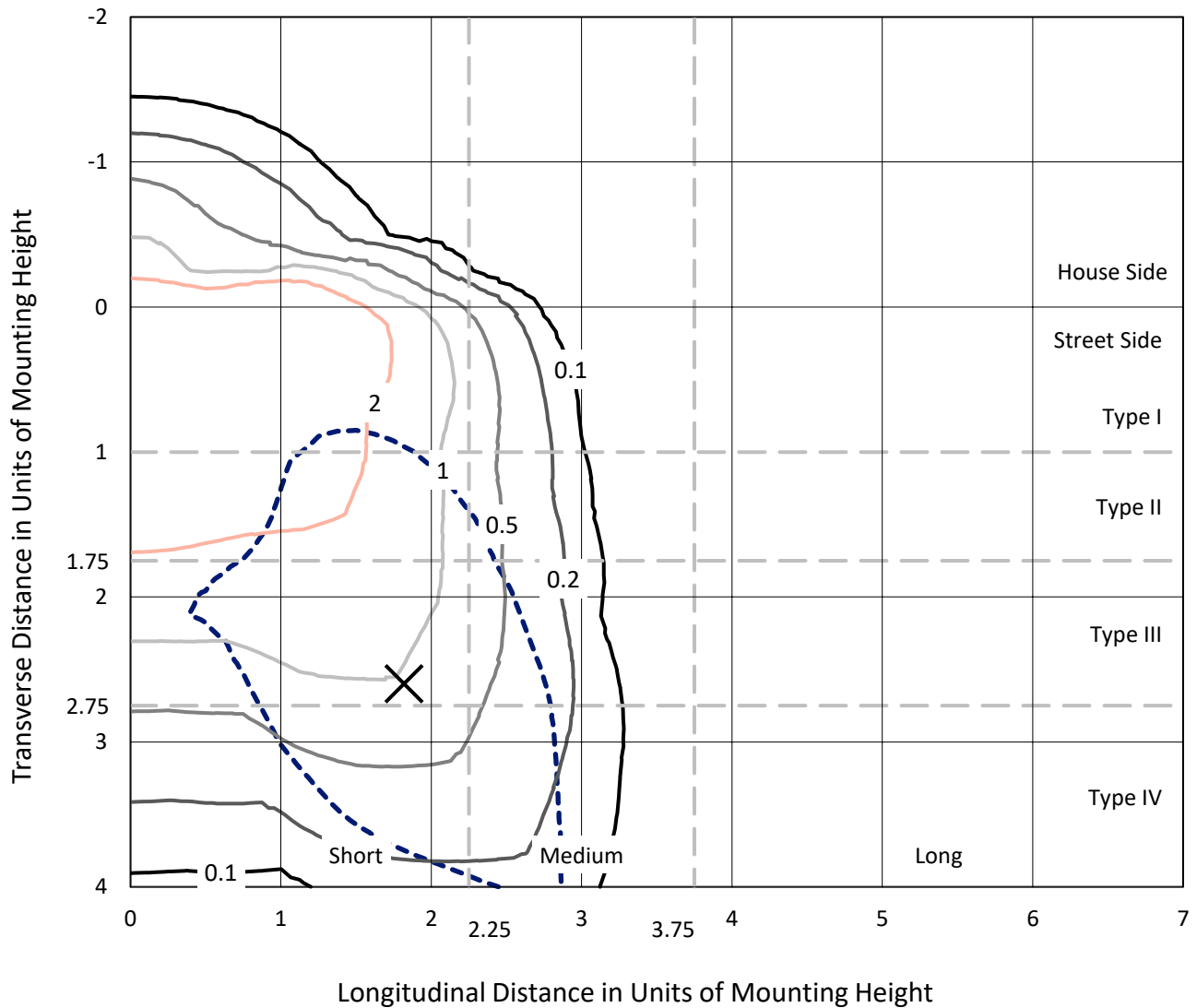
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

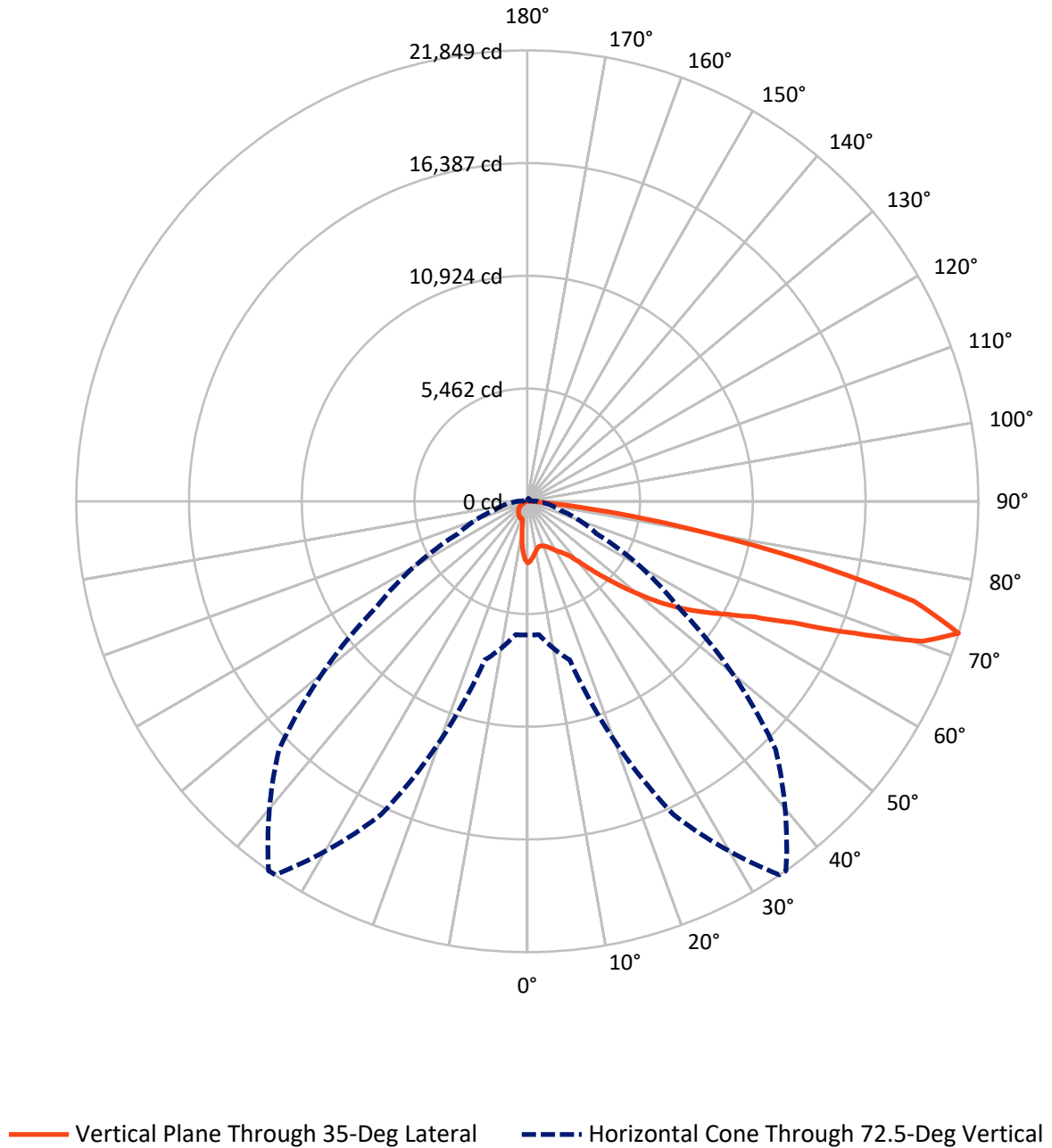
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	2318.4	0.0	2318.4
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	18281.6	0.0	18281.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	20600.0	0.0	20600.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.3	1.2
10°-20°	573.9	2.8
20°-30°	932.4	4.5
30°-40°	1555.6	7.6
40°-50°	2943.3	14.3
50°-60°	4676.9	22.7
60°-70°	5785.6	28.1
70°-80°	3596.4	17.5
80°-90°	290.6	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°	20600.0	100.0
0°-180°	20600.0	100.0

Coefficient of Utilization



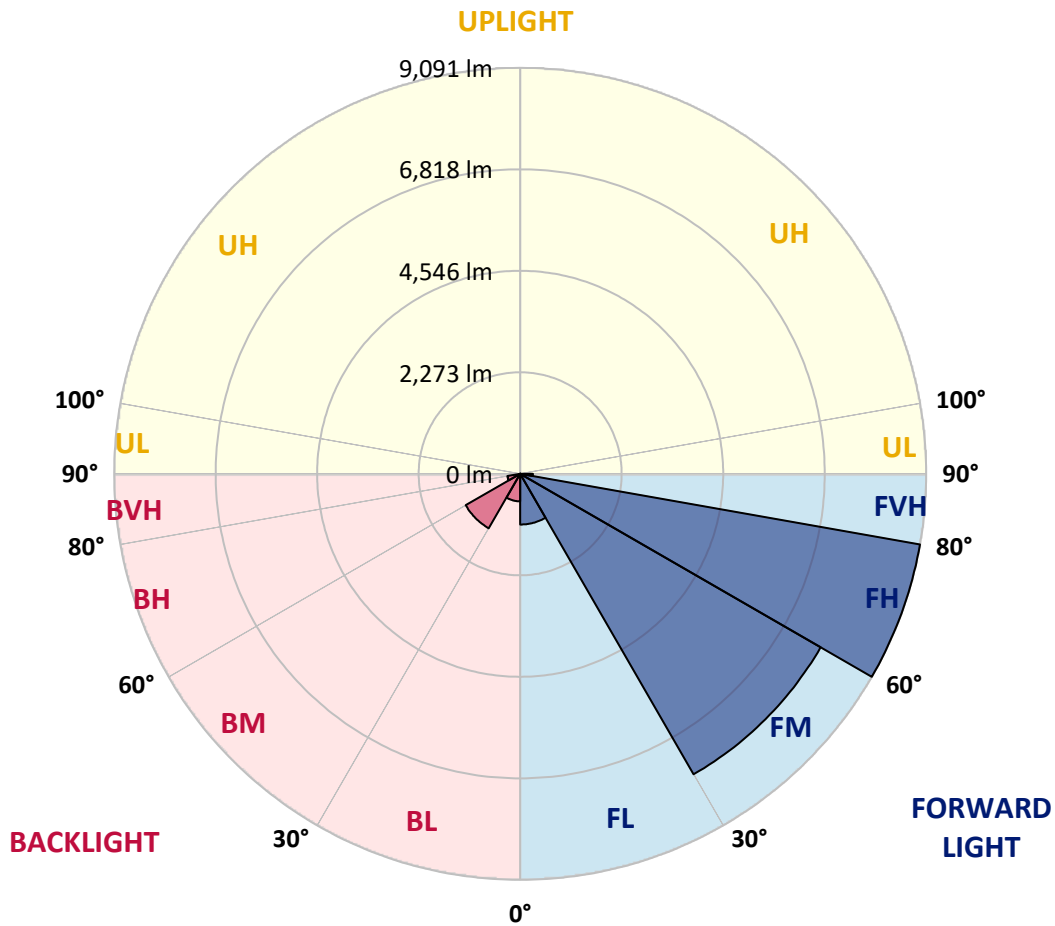
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1135.6	5.5			
FM (30°-60°)	7768.3	37.7			
FH (60°-80°)	9091.0	44.1			G4/12000
FVH (80°-90°)	286.7	1.4			G3/500
BL (0°-30°)	616.1	3.0	B2/1000		
BM (30°-60°)	1407.5	6.8	B2/2500		
BH (60°-80°)	290.9	1.4	B1/500		G1/500
BVH (80°-90°)	4.0	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°	2985.6	2985.6	2985.6	2985.6	2985.6	2985.6	2985.6	2985.6	2985.6	2985.6
2.5°	2852.8	2877.0	2881.5	2889.0	2889.0	2898.1	2913.2	2934.3	2969.0	2987.1
5°	2629.4	2647.5	2670.2	2688.3	2723.0	2727.5	2786.4	2843.7	2923.7	2984.1
7.5°	2404.5	2425.6	2455.8	2499.6	2544.9	2558.5	2647.5	2744.1	2870.9	2984.1
10°	2246.0	2247.5	2274.7	2318.5	2390.9	2407.5	2516.2	2653.6	2812.0	2966.0
12.5°	2157.0	2167.5	2179.6	2212.8	2282.2	2292.8	2409.0	2570.5	2753.2	2955.4
15°	2157.0	2164.5	2172.1	2188.7	2244.5	2253.6	2356.2	2517.7	2723.0	2960.0
17.5°	2179.6	2191.7	2185.6	2205.3	2264.1	2270.2	2360.7	2502.6	2721.5	2988.6
20°	2233.9	2243.0	2230.9	2243.0	2301.9	2313.9	2407.5	2531.3	2747.1	3038.5
22.5°	2320.0	2324.5	2295.8	2304.9	2365.3	2380.4	2489.0	2612.8	2809.0	3118.5
25°	2428.7	2437.7	2393.9	2404.5	2461.9	2480.0	2605.3	2735.1	2907.1	3228.6
27.5°	2553.9	2558.5	2520.7	2519.2	2593.2	2618.8	2745.6	2886.0	3038.5	3367.5
30°	2697.3	2710.9	2674.7	2668.7	2762.2	2783.4	2908.7	3071.7	3231.7	3575.8
32.5°	2810.5	2821.1	2800.0	2815.1	2910.2	2926.8	3106.4	3334.3	3535.1	3871.7
35°	2973.6	2979.6	2931.3	2958.5	3067.1	3109.4	3376.6	3702.6	3916.9	4243.0
37.5°	3563.7	3563.7	3358.5	3224.1	3328.3	3366.0	3746.4	4166.0	4387.9	4741.1
40°	4380.3	4366.7	4066.4	3791.7	3778.1	3852.0	4273.2	4750.1	4996.2	5338.8
42.5°	5251.3	5230.1	4821.1	4549.4	4504.1	4529.8	4881.5	5470.1	5720.7	6067.9
45°	6024.1	6018.1	5643.7	5278.4	5196.9	5278.4	5640.7	6312.4	6492.0	6857.3
47.5°	6671.6	6671.6	6398.4	6159.9	6117.7	6166.0	6668.6	7246.7	7230.1	7698.0
50°	7417.3	7411.2	7151.6	7049.0	7092.8	7160.7	7852.0	8230.9	7993.9	8523.7
52.5°	7939.5	7975.8	7886.7	7870.1	8093.5	8211.2	9053.5	9193.9	8677.6	9307.1
55°	8353.1	8395.4	8498.0	8614.3	9044.4	9198.4	10217.3	10107.1	9249.7	9986.3
57.5°	8938.8	8878.4	9036.9	9266.3	9962.2	10147.8	11344.8	10968.9	9710.1	10537.3
60°	9649.7	9658.8	9685.9	9975.7	10878.4	11116.9	12455.7	11784.0	10005.9	10875.4
62.5°	10504.0	10517.6	10573.5	11018.8	12108.6	12333.5	13639.1	12451.2	10141.8	10780.3
65°	10445.2	10502.5	11125.9	12648.9	13978.7	14200.6	15020.2	12919.1	9936.5	9910.8
67.5°	9515.4	9609.0	10652.0	14596.1	16798.3	17045.9	16689.6	13011.2	9050.5	7707.1
70°	8295.8	8329.0	9583.3	16347.0	20063.2	20313.8	18184.0	11998.4	6867.9	4298.8
72.5°	6478.4	6486.0	7957.7	16753.0	21835.3	21848.8	17011.2	8907.1	3693.5	1651.3
75°	4627.9	4582.6	5329.8	13586.3	19210.4	19364.3	12753.1	4178.1	1411.3	780.4
77.5°	2481.5	2531.3	3015.8	8057.3	13270.8	13533.5	6958.4	1204.5	718.5	531.3
80°	766.8	809.0	1236.2	3689.0	7516.9	7675.4	2579.6	535.8	501.1	378.9
82.5°	241.5	250.6	576.6	1550.2	3120.0	3192.4	747.2	303.4	342.6	250.6
85°	69.4	70.9	256.6	578.1	771.3	786.4	209.8	117.7	196.2	155.5
87.5°	7.5	24.2	96.6	96.6	67.9	66.4	22.6	25.7	55.8	19.6
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°
2985.6	0°	2985.6	2985.6	2985.6	2985.6	2985.6	2985.6	2985.6	2985.6	2985.6	2985.6
2999.2	2.5°	2991.7	2993.2	2973.6	2940.3	2904.1	2873.9	2836.2	2806.0	2784.9	2778.8
3026.4	5°	3012.8	3002.2	2946.4	2845.3	2724.5	2620.4	2504.1	2412.1	2351.7	2326.0
3055.1	7.5°	3044.5	3014.3	2892.0	2692.8	2461.9	2256.6	2048.3	1886.8	1784.1	1732.8
3082.2	10°	3071.7	3011.3	2801.5	2472.4	2119.2	1808.3	1527.5	1332.8	1224.1	1172.8
3113.9	12.5°	3097.3	3009.8	2683.7	2211.3	1732.8	1352.4	1091.3	994.7	964.5	954.0
3165.3	15°	3145.6	3014.3	2535.8	1912.4	1347.9	1021.9	926.8	925.3	931.3	928.3
3243.7	17.5°	3212.0	3018.8	2368.3	1595.5	1040.0	901.1	896.6	910.2	919.2	914.7
3341.9	20°	3298.1	3037.0	2190.2	1281.5	893.6	870.9	881.5	893.6	901.1	893.6
3473.2	22.5°	3418.8	3068.6	1995.5	1029.4	846.8	852.8	861.9	875.5	883.0	872.4
3640.7	25°	3566.8	3118.5	1803.8	895.1	824.1	831.7	845.3	860.4	869.4	858.9
3852.0	27.5°	3758.5	3198.5	1627.2	864.9	801.5	806.0	825.7	848.3	860.4	846.8
4152.4	30°	4036.2	3329.8	1474.7	878.5	787.9	777.4	804.5	836.2	849.8	837.7
4561.5	32.5°	4404.5	3515.4	1381.1	899.6	781.9	744.1	769.8	810.6	833.2	825.7
5095.8	35°	4887.5	3797.7	1344.9	923.8	777.4	709.4	727.5	771.3	810.6	818.1
5769.0	37.5°	5473.2	4190.1	1355.5	934.3	763.8	680.7	689.8	727.5	778.9	803.0
6526.7	40°	6138.8	4647.5	1415.8	923.8	748.7	656.6	658.1	686.8	732.1	768.3
7341.8	42.5°	6825.6	5181.8	1527.5	884.5	735.1	635.5	630.9	650.6	680.7	706.4
8155.4	45°	7479.2	5731.3	1637.7	830.2	718.5	614.3	603.8	611.3	617.4	627.9
8947.8	47.5°	8049.7	6117.7	1606.0	780.4	695.8	590.2	572.1	569.1	550.9	549.4
9655.8	50°	8443.7	6202.2	1426.4	730.6	662.6	563.0	534.3	516.2	484.5	469.4
10185.6	52.5°	8569.0	5868.6	1165.3	680.7	608.3	526.8	486.0	457.4	418.1	404.5
10490.5	55°	8402.9	5215.0	931.3	620.4	532.8	478.5	433.2	395.5	363.8	347.2
10523.7	57.5°	7996.9	4383.4	736.6	549.4	452.8	424.1	378.9	341.1	314.0	297.4
10155.4	60°	7323.7	3480.7	582.6	464.9	386.4	365.3	318.5	294.3	270.2	250.6
9204.4	62.5°	6301.8	2484.5	457.4	368.3	323.0	298.9	271.7	253.6	224.9	197.7
7494.3	65°	4917.7	1520.0	353.2	270.2	259.6	247.5	230.9	214.3	179.6	152.5
4889.0	67.5°	3101.9	720.0	252.1	203.8	205.3	199.2	191.7	178.1	152.5	128.3
2190.2	70°	1366.0	348.7	166.0	155.5	152.5	152.5	158.5	154.0	129.8	107.2
760.7	72.5°	464.9	187.2	123.8	117.7	110.2	108.7	132.8	128.3	104.1	83.0
378.9	75°	243.0	125.3	90.6	84.5	66.4	80.0	105.7	99.6	74.0	54.3
250.6	77.5°	158.5	89.1	61.9	54.3	37.7	52.8	78.5	69.4	43.8	27.2
164.5	80°	99.6	58.9	36.2	25.7	18.1	28.7	42.3	30.2	16.6	6.0
96.6	82.5°	52.8	30.2	13.6	9.1	7.5	9.1	10.6	7.5	3.0	0.0
49.8	85°	21.1	10.6	4.5	3.0	1.5	0.0	3.0	1.5	0.0	0.0
9.1	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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<u>180°</u>
2985.6
2789.4
2335.1
1740.4
1174.3
950.9
926.8
913.2
892.1
870.9
857.3
846.8
836.2
825.7
818.1
809.0
780.4
717.0
634.0
547.9
470.9
403.0
347.2
294.3
246.0
193.2
147.9
125.3
102.6
78.5
49.8
24.2
4.5
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