

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: P950162

Luminaire Tested: **GALN-SB4C-940-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950162
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-940-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16754 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

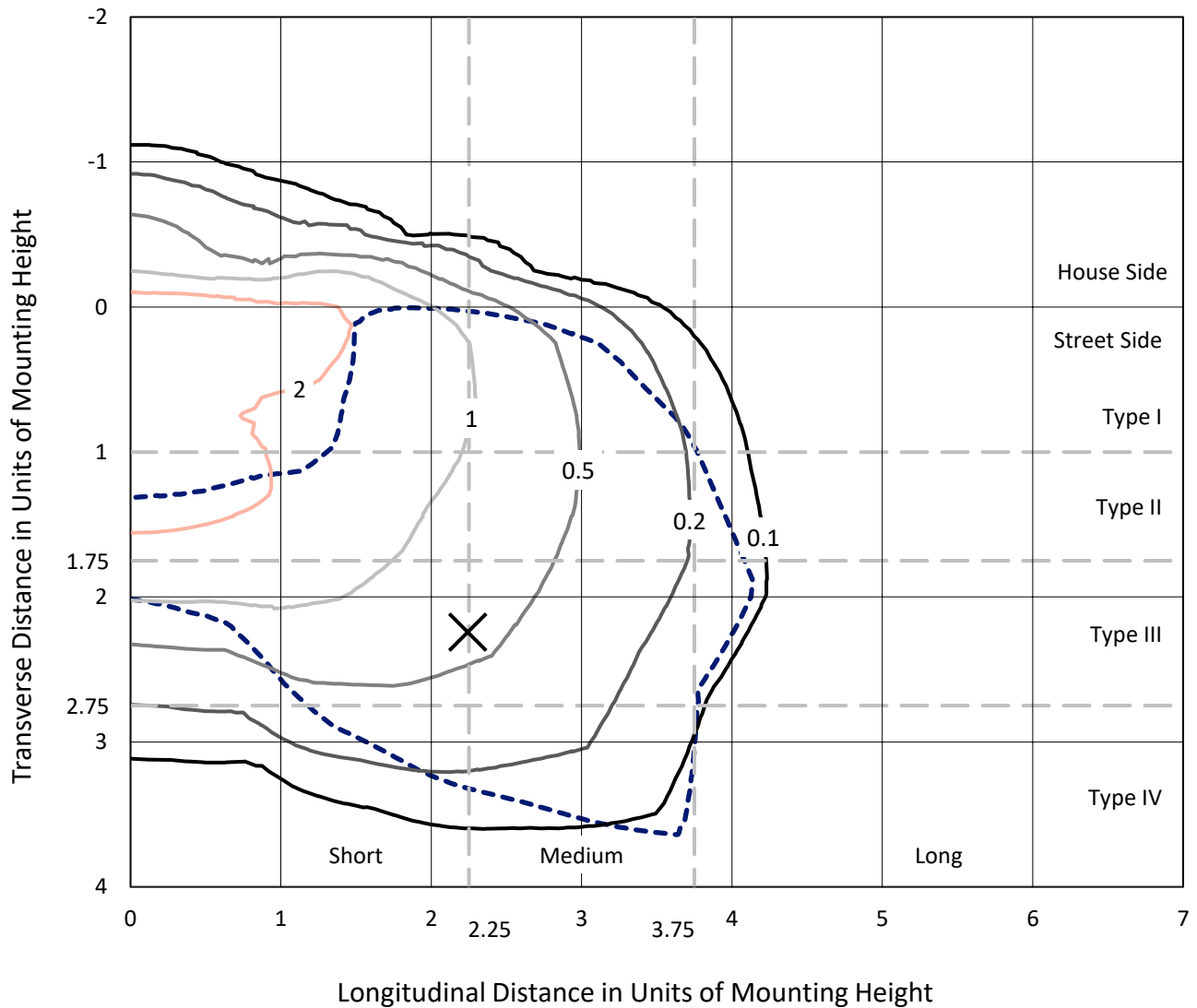
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

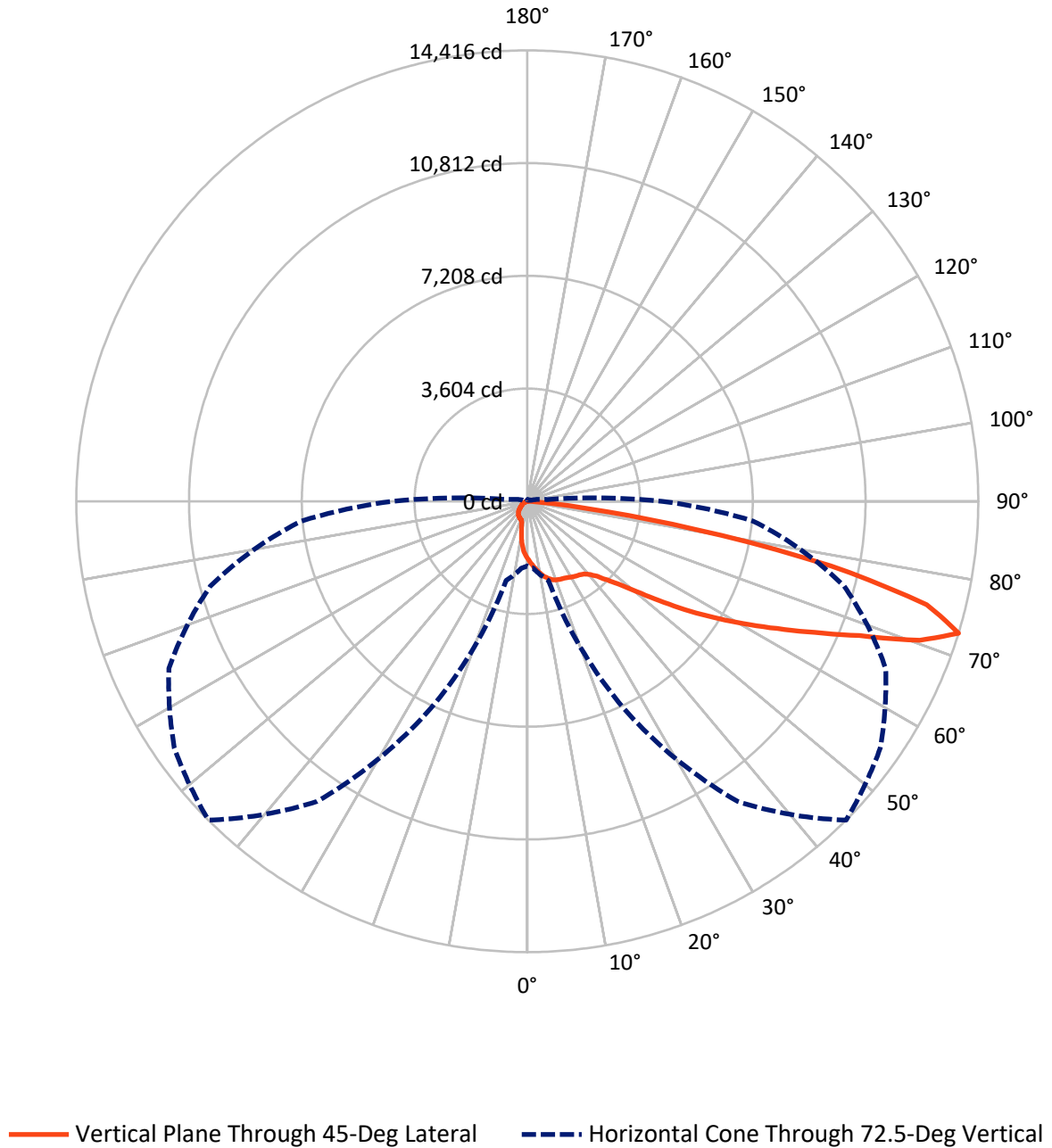
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	1760.4	0.0	1760.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	14993.6	0.0	14993.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	16754.0	0.0	16754.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.9	1.0
10°-20°	505.4	3.0
20°-30°	830.0	5.0
30°-40°	1177.1	7.0
40°-50°	1945.6	11.6
50°-60°	3495.1	20.9
60°-70°	4853.1	29.0
70°-80°	3520.3	21.0
80°-90°	254.5	1.5
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°	16754.0	100.0
0°-180°	16754.0	100.0

Coefficient of Utilization



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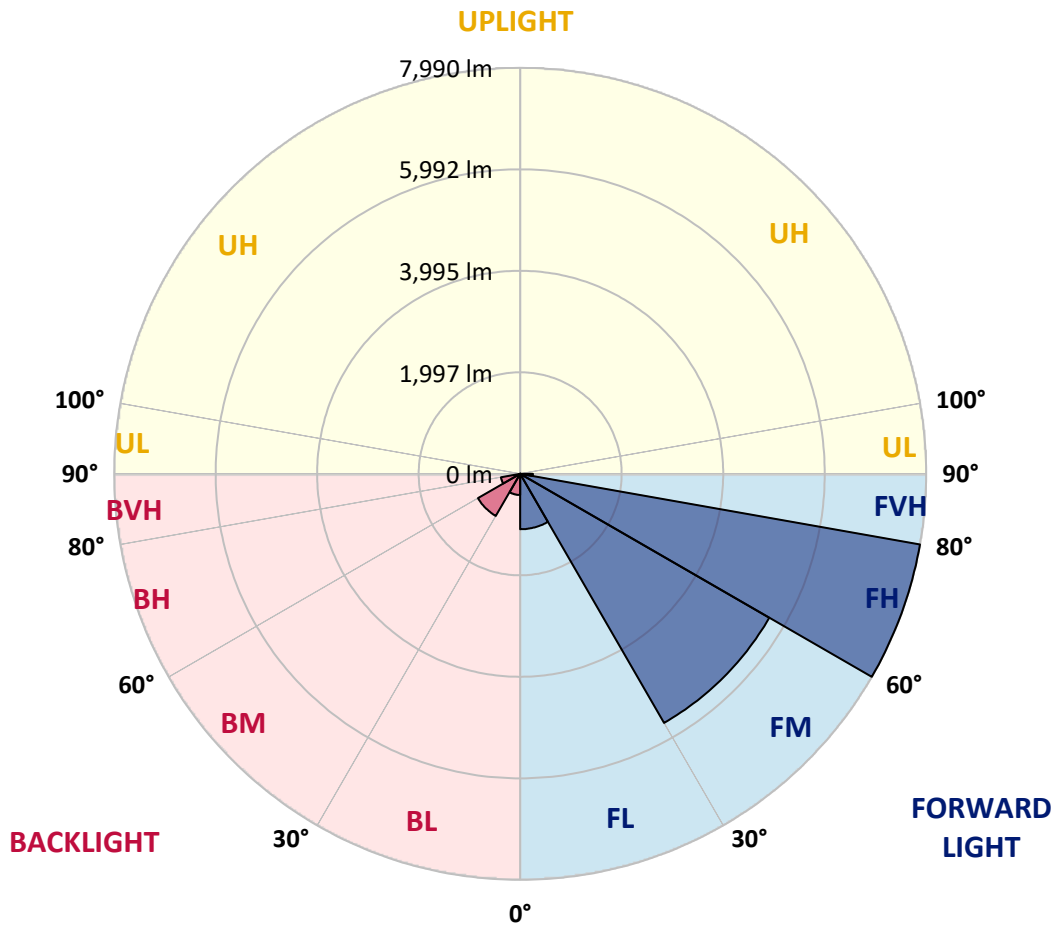
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1091.4	6.5			
FM (30°-60°)	5660.4	33.8			
FH (60°-80°)	7989.5	47.7			G4/12000
FVH (80°-90°)	252.4	1.5			G3/500
BL (0°-30°)	417.0	2.5	B1/500		
BM (30°-60°)	957.4	5.7	B1/1000		
BH (60°-80°)	383.9	2.3	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1835.4	1835.4	1835.4	1835.4	1835.4	1835.4	1835.4	1835.4	1835.4	1835.4
2.5°	2004.7	2008.1	2005.8	1992.1	1969.2	1956.7	1949.8	1926.9	1912.1	1885.8
5°	2188.8	2202.5	2194.5	2167.1	2123.6	2092.7	2083.6	2036.7	1994.4	1945.2
7.5°	2384.4	2391.2	2376.3	2340.9	2282.6	2230.0	2222.0	2156.8	2089.3	2013.8
10°	2553.6	2561.6	2538.7	2487.3	2420.9	2355.8	2344.3	2272.3	2192.2	2099.6
12.5°	2695.4	2703.4	2673.7	2611.9	2538.7	2471.3	2459.8	2384.4	2296.3	2193.4
15°	2802.9	2817.8	2777.7	2711.4	2632.5	2565.0	2559.3	2485.0	2399.2	2284.9
17.5°	2865.8	2880.7	2842.9	2762.9	2695.4	2638.2	2631.4	2569.6	2489.6	2379.8
20°	2876.1	2889.8	2849.8	2780.0	2724.0	2678.3	2674.8	2630.2	2571.9	2466.7
22.5°	2845.2	2862.4	2825.8	2769.7	2730.9	2706.8	2702.3	2677.1	2643.9	2554.7
25°	2813.2	2826.9	2799.5	2750.3	2729.7	2727.4	2730.9	2726.3	2719.4	2643.9
27.5°	2810.9	2825.8	2794.9	2748.0	2736.6	2760.6	2764.0	2785.7	2791.5	2725.1
30°	2830.3	2840.6	2810.9	2761.7	2756.0	2810.9	2812.0	2850.9	2860.1	2793.8
32.5°	2872.7	2884.1	2854.4	2782.3	2774.3	2850.9	2854.4	2905.8	2920.7	2866.9
35°	2972.1	2985.9	2951.6	2839.5	2810.9	2888.7	2899.0	2959.6	2989.3	2944.7
37.5°	3220.3	3180.3	3133.4	2955.0	2894.4	2948.1	2965.3	3036.2	3088.8	3037.3
40°	3836.7	3710.9	3564.5	3151.7	3040.8	3075.1	3088.8	3159.7	3231.7	3181.4
42.5°	4761.8	4613.2	4377.6	3604.5	3261.5	3278.6	3288.9	3350.7	3452.5	3412.4
45°	5586.4	5532.6	5292.5	4377.6	3674.3	3589.7	3602.3	3634.3	3784.1	3769.2
47.5°	6219.9	6189.0	6003.8	5265.0	4371.9	3970.5	4005.9	4020.8	4236.9	4289.5
50°	6707.1	6695.6	6529.8	6054.1	5283.3	4532.0	4544.6	4512.5	4836.2	4966.5
52.5°	7166.8	7205.7	7083.3	6787.1	6256.5	5267.3	5265.0	5114.1	5550.9	5747.6
55°	7581.9	7595.6	7608.2	7535.0	7235.4	6104.4	6082.7	5835.7	6380.0	6583.6
57.5°	7971.9	7977.6	8089.6	8239.5	8254.3	7003.2	6963.2	6667.0	7285.7	7430.9
60°	8233.7	8260.0	8496.8	8913.0	9094.8	7930.7	7909.0	7607.1	8207.4	8274.9
62.5°	7856.4	8016.5	8613.4	9439.1	9888.5	8958.8	8948.5	8664.9	9177.2	9122.3
65°	6359.4	6630.4	7680.2	9794.7	10667.3	10106.9	10121.8	9819.9	10173.2	9994.8
67.5°	4448.5	4734.4	5976.3	9823.3	11537.5	11455.2	11540.9	11067.5	11231.0	10830.8
70°	3076.2	3223.7	4032.2	9208.1	12215.7	13312.3	13310.1	12599.9	12283.1	11211.6
72.5°	2068.7	2145.3	2618.8	7305.2	11717.1	14415.9	14349.6	13770.9	12637.6	10485.4
75°	872.5	928.6	1212.2	4105.4	9269.8	13188.8	13009.3	12169.9	11228.8	8256.6
77.5°	276.7	300.8	478.0	1469.5	5106.1	9913.6	9723.8	7600.2	7525.9	4142.0
80°	131.5	153.2	268.7	590.1	2009.3	5392.0	5365.6	3447.9	3237.5	1118.4
82.5°	57.2	67.5	148.7	315.6	898.8	1923.5	1962.4	1173.3	970.9	424.3
85°	18.3	24.0	68.6	145.2	379.7	478.0	472.3	279.0	391.1	231.0
87.5°	0.0	0.0	22.9	33.2	38.9	27.4	30.9	24.0	108.6	64.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1835.4	0°	1835.4	1835.4	1835.4	1835.4	1835.4	1835.4	1835.4	1835.4	1835.4	1835.4
1858.3	2.5°	1844.6	1826.3	1794.3	1764.5	1738.2	1711.9	1695.9	1673.0	1670.8	1670.8
1888.0	5°	1857.2	1827.4	1770.3	1709.6	1639.9	1573.6	1507.2	1443.2	1422.6	1407.7
1936.1	7.5°	1893.8	1846.9	1756.5	1641.0	1508.4	1363.1	1261.4	1151.6	1109.3	1086.4
2000.1	10°	1946.4	1882.3	1745.1	1542.7	1327.7	1129.9	984.6	865.7	819.9	800.5
2069.9	12.5°	2004.7	1925.8	1724.5	1420.3	1129.9	893.1	751.3	696.4	689.6	689.6
2153.3	15°	2074.4	1978.4	1689.1	1276.2	922.9	706.7	656.4	658.7	665.6	670.1
2234.5	17.5°	2146.5	2034.4	1633.0	1115.0	739.9	635.8	637.0	640.4	646.1	650.7
2322.6	20°	2224.3	2090.5	1558.7	943.4	634.7	615.2	618.7	622.1	626.7	629.0
2404.9	22.5°	2307.7	2143.1	1470.6	775.3	599.2	598.1	599.2	602.7	608.4	608.4
2501.0	25°	2396.9	2201.4	1370.0	653.0	580.9	580.9	583.2	585.5	590.1	590.1
2593.6	27.5°	2488.4	2255.1	1263.6	588.9	564.9	563.8	563.8	567.2	569.5	570.6
2685.1	30°	2589.1	2318.0	1157.3	575.2	552.3	546.6	543.2	545.5	547.8	548.9
2781.2	32.5°	2692.0	2378.6	1062.4	580.9	539.8	529.5	518.0	515.8	515.8	520.3
2880.7	35°	2806.3	2445.0	989.2	600.4	532.9	504.3	486.0	475.7	476.9	483.7
2999.6	37.5°	2943.6	2525.0	935.4	617.5	528.3	475.7	446.0	433.4	425.4	433.4
3163.1	40°	3123.1	2642.8	896.6	631.3	522.6	442.6	402.5	382.0	367.1	371.7
3417.0	42.5°	3387.3	2828.1	881.7	632.4	510.0	403.7	357.9	330.5	308.8	309.9
3799.0	45°	3757.8	3120.8	958.3	617.5	482.6	361.4	311.1	274.5	260.7	257.3
4369.6	47.5°	4265.5	3547.4	1135.6	586.7	442.6	320.2	265.3	234.4	224.1	218.4
5118.6	50°	4946.0	4095.1	1332.3	552.3	402.5	281.3	227.6	208.1	201.3	195.6
6007.2	52.5°	5735.0	4650.9	1493.5	518.0	362.5	247.0	203.6	192.1	186.4	181.8
6864.9	55°	6458.9	5034.0	1484.4	481.4	323.6	219.6	186.4	179.5	172.7	168.1
7603.6	57.5°	6909.5	5087.8	1223.6	441.4	279.0	197.8	170.4	165.8	157.8	152.1
8242.9	60°	7116.5	4781.3	857.7	388.8	234.4	177.3	153.2	151.0	140.7	132.7
8847.8	62.5°	7154.2	4211.8	571.8	323.6	195.6	157.8	136.1	132.7	118.9	105.2
9339.6	65°	7001.0	3397.6	395.7	252.7	167.0	137.2	116.6	109.8	94.9	81.2
9456.2	67.5°	6516.1	2385.5	275.6	181.8	141.8	108.6	92.6	90.3	78.9	67.5
8861.6	70°	5627.5	1359.7	184.1	136.1	112.1	74.3	73.2	75.5	64.0	54.9
7240.0	72.5°	4314.7	622.1	114.4	99.5	76.6	50.3	58.3	59.5	49.2	41.2
4517.1	75°	2539.9	266.5	72.0	64.0	38.9	33.2	42.3	43.5	33.2	26.3
1651.3	77.5°	864.5	100.6	45.7	37.7	19.4	18.3	27.4	27.4	18.3	10.3
331.6	80°	196.7	37.7	22.9	14.9	9.1	8.0	9.1	8.0	4.6	1.1
101.8	82.5°	56.0	14.9	9.1	5.7	3.4	3.4	1.1	0.0	0.0	0.0
35.5	85°	16.0	6.9	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
12.6	87.5°	6.9	1.1	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>
1835.4
1676.5
1414.6
1089.8
800.5
689.6
670.1
650.7
630.1
610.7
591.2
571.8
551.2
523.8
487.2
431.1
369.4
305.3
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215.0
194.4
180.7
165.8
151.0
130.4
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