

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: P948650

Luminaire Tested: **GALN-SB3C-850-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948650
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-SB3C-850-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 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: 16556 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

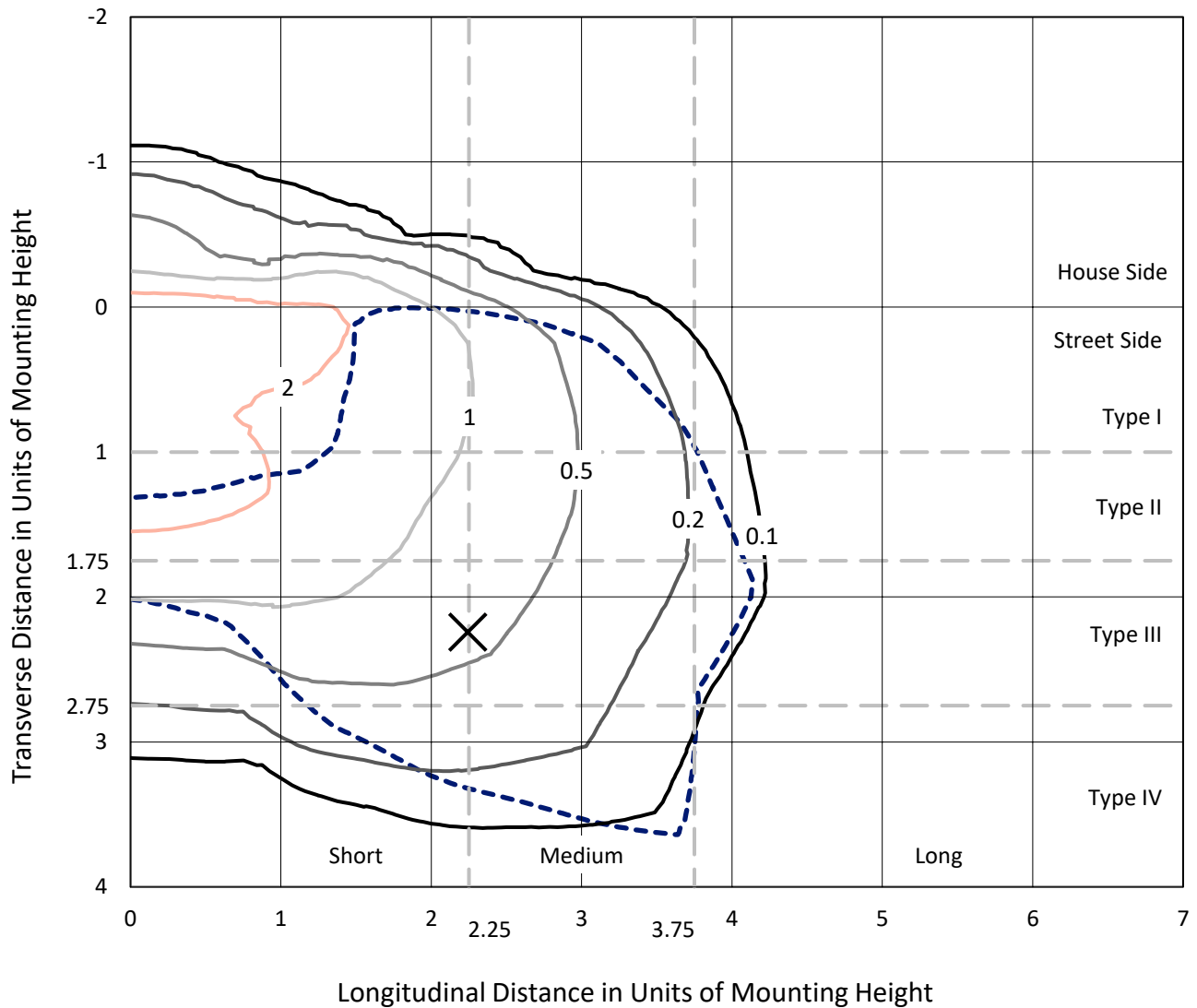
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

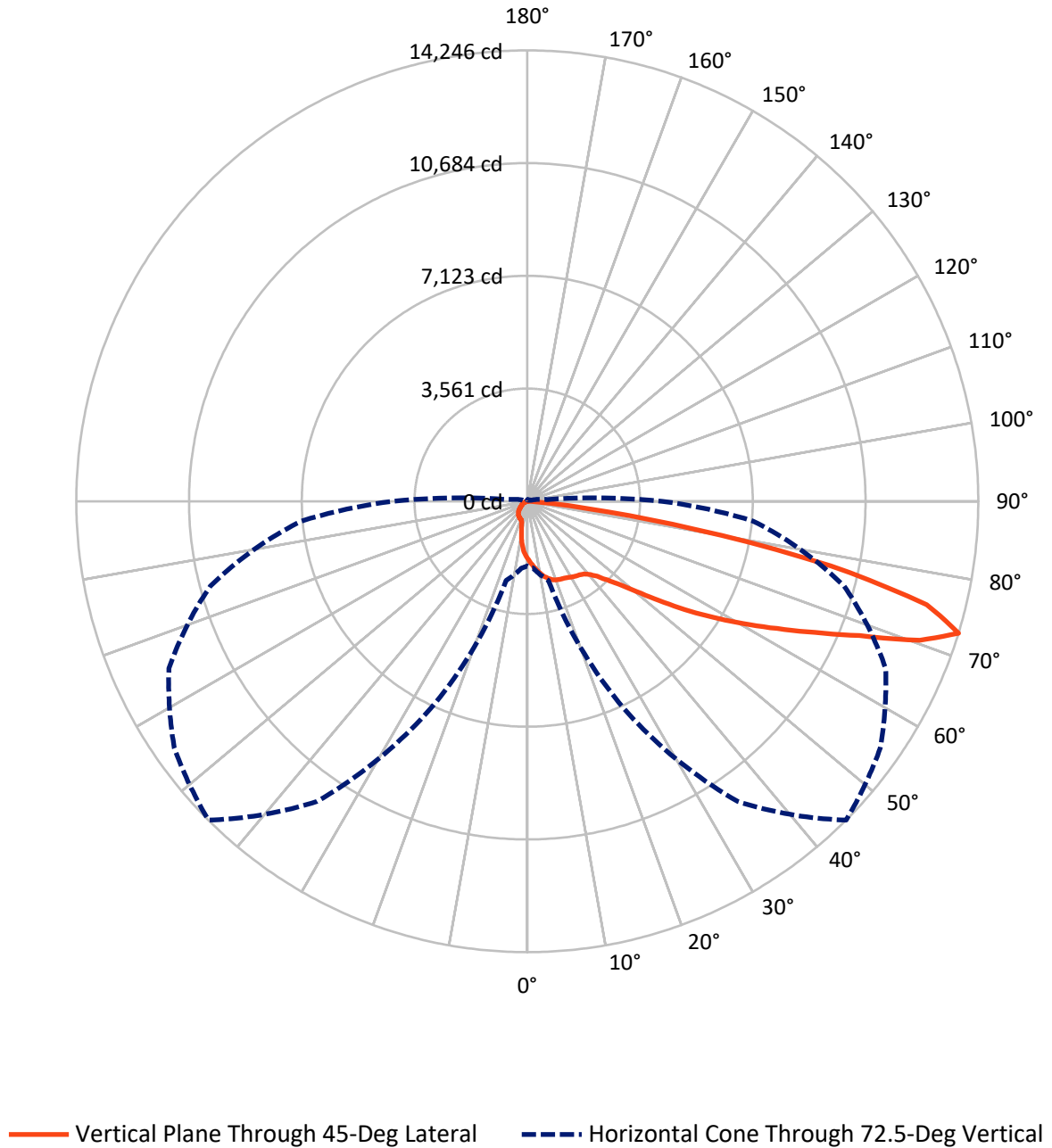
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	1739.6	0.0	1739.6
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	14816.4	0.0	14816.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	16556.0	0.0	16556.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.9	1.0
10°-20°	499.4	3.0
20°-30°	820.2	5.0
30°-40°	1163.2	7.0
40°-50°	1922.6	11.6
50°-60°	3453.8	20.9
60°-70°	4795.7	29.0
70°-80°	3478.7	21.0
80°-90°	251.5	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°	16556.0	100.0
0°-180°	16556.0	100.0

Coefficient of Utilization



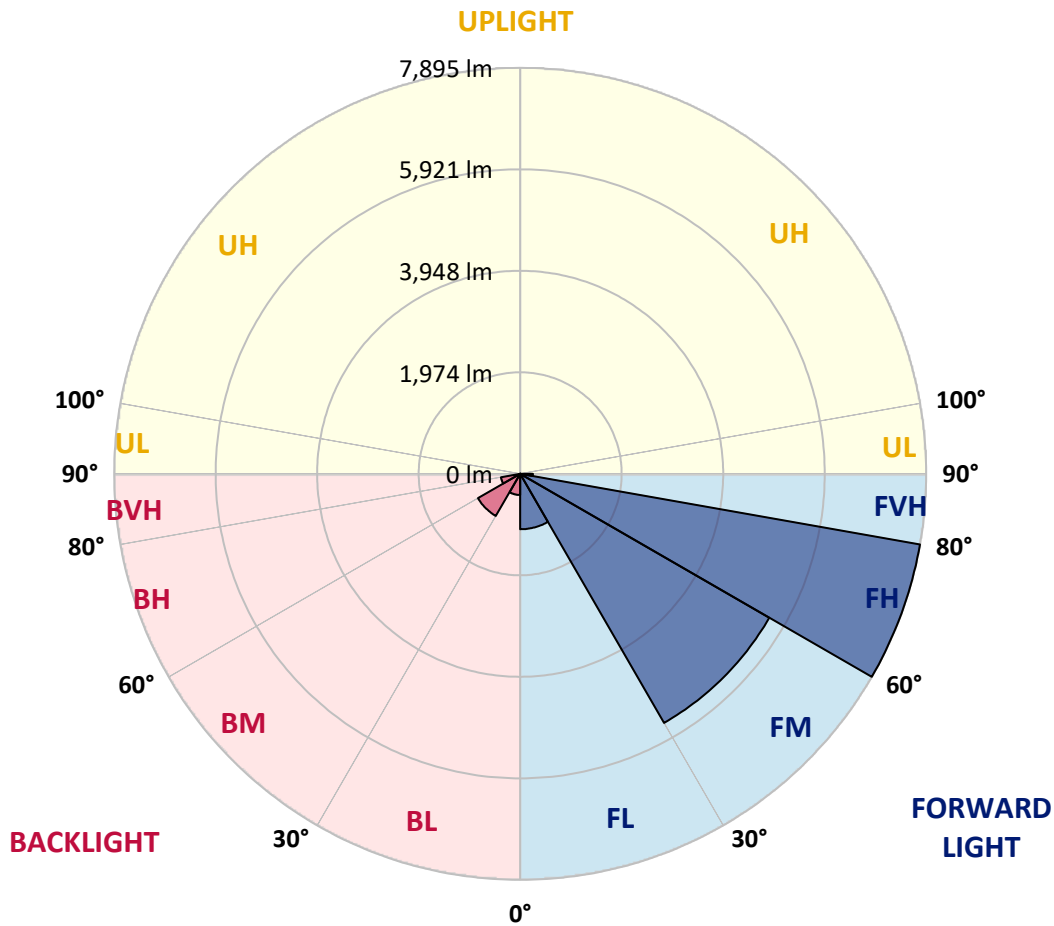
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1078.5	6.5			
FM (30°-60°)	5593.5	33.8			
FH (60°-80°)	7895.1	47.7			G4/12000
FVH (80°-90°)	249.4	1.5			G3/500
BL (0°-30°)	412.0	2.5	B1/500		
BM (30°-60°)	946.1	5.7	B1/1000		
BH (60°-80°)	379.3	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°	1813.7	1813.7	1813.7	1813.7	1813.7	1813.7	1813.7	1813.7	1813.7	1813.7
2.5°	1981.0	1984.4	1982.1	1968.6	1946.0	1933.5	1926.8	1904.1	1889.5	1863.5
5°	2162.9	2176.5	2168.6	2141.5	2098.5	2068.0	2059.0	2012.6	1970.8	1922.2
7.5°	2356.2	2363.0	2348.3	2313.2	2255.6	2203.6	2195.7	2131.3	2064.6	1990.0
10°	2523.4	2531.3	2508.7	2457.9	2392.3	2327.9	2316.6	2245.4	2166.3	2074.8
12.5°	2663.5	2671.5	2642.1	2581.1	2508.7	2442.1	2430.8	2356.2	2269.2	2167.5
15°	2769.8	2784.5	2744.9	2679.4	2601.4	2534.7	2529.1	2455.6	2370.9	2257.9
17.5°	2831.9	2846.6	2809.3	2730.2	2663.5	2607.0	2600.3	2539.2	2460.1	2351.7
20°	2842.1	2855.7	2816.1	2747.2	2691.8	2646.6	2643.2	2599.1	2541.5	2437.5
22.5°	2811.6	2828.5	2792.4	2737.0	2698.6	2674.9	2670.3	2645.5	2612.7	2524.6
25°	2779.9	2793.5	2766.4	2717.8	2697.5	2695.2	2698.6	2694.1	2687.3	2612.7
27.5°	2777.7	2792.4	2761.9	2715.5	2704.2	2728.0	2731.4	2752.8	2758.5	2692.9
30°	2796.9	2807.1	2777.7	2729.1	2723.4	2777.7	2778.8	2817.2	2826.3	2760.7
32.5°	2838.7	2850.0	2820.6	2749.4	2741.5	2817.2	2820.6	2871.5	2886.2	2833.1
35°	2937.0	2950.6	2916.7	2805.9	2777.7	2854.5	2864.7	2924.6	2954.0	2909.9
37.5°	3182.2	3142.7	3096.4	2920.1	2860.2	2913.3	2930.2	3000.3	3052.3	3001.4
40°	3791.3	3667.0	3522.4	3114.4	3004.8	3038.7	3052.3	3122.4	3193.5	3143.8
42.5°	4705.6	4558.7	4325.9	3561.9	3222.9	3239.9	3250.1	3311.1	3411.6	3372.1
45°	5520.3	5467.2	5229.9	4325.9	3630.9	3547.3	3559.7	3591.3	3739.4	3724.7
47.5°	6146.4	6115.9	5932.8	5202.8	4320.2	3923.6	3958.6	3973.3	4186.9	4238.9
50°	6627.8	6616.5	6452.6	5982.5	5220.9	4478.4	4490.9	4459.2	4779.0	4907.8
52.5°	7082.1	7120.5	6999.6	6706.9	6182.6	5205.1	5202.8	5053.6	5485.3	5679.7
55°	7492.3	7505.9	7518.3	7446.0	7149.9	6032.3	6010.8	5766.7	6304.6	6505.8
57.5°	7877.6	7883.3	7994.0	8142.1	8156.8	6920.5	6880.9	6588.2	7199.6	7343.1
60°	8136.4	8162.4	8396.3	8807.7	8987.4	7837.0	7815.5	7517.2	8110.4	8177.1
62.5°	7763.5	7921.7	8511.6	9327.5	9771.6	8852.9	8842.7	8562.5	9068.7	9014.5
65°	6284.3	6552.1	7589.5	9679.0	10541.2	9987.5	10002.2	9703.8	10053.0	9876.7
67.5°	4395.9	4678.4	5905.7	9707.2	11401.2	11319.8	11404.6	10936.7	11098.3	10702.8
70°	3039.9	3185.6	3984.6	9099.2	12071.3	13155.0	13152.8	12451.0	12138.0	11079.1
72.5°	2044.3	2120.0	2587.8	7218.8	11578.6	14245.5	14180.0	13608.2	12488.3	10361.5
75°	862.2	917.6	1197.9	4056.9	9160.3	13033.0	12855.6	12026.1	11096.1	8159.0
77.5°	273.5	297.2	472.4	1452.1	5045.7	9796.5	9608.9	7510.4	7436.9	4093.1
80°	130.0	151.4	265.6	583.1	1985.5	5328.2	5302.2	3407.1	3199.2	1105.2
82.5°	56.5	66.7	146.9	311.9	888.2	1900.8	1939.2	1159.4	959.4	419.3
85°	18.1	23.7	67.8	143.5	375.2	472.4	466.7	275.7	386.5	228.3
87.5°	0.0	0.0	22.6	32.8	38.4	27.1	30.5	23.7	107.4	63.3
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°
1813.7	0°	1813.7	1813.7	1813.7	1813.7	1813.7	1813.7	1813.7	1813.7	1813.7	1813.7
1836.3	2.5°	1822.8	1804.7	1773.1	1743.7	1717.7	1691.7	1675.9	1653.3	1651.0	1651.0
1865.7	5°	1835.2	1805.8	1749.3	1689.4	1620.5	1555.0	1489.4	1426.1	1405.8	1391.1
1913.2	7.5°	1871.4	1825.0	1735.8	1621.6	1490.5	1347.0	1246.5	1138.0	1096.2	1073.6
1976.5	10°	1923.4	1860.1	1724.5	1524.4	1312.0	1116.5	973.0	855.5	810.3	791.0
2045.4	12.5°	1981.0	1903.0	1704.1	1403.5	1116.5	882.6	742.4	688.2	681.4	681.4
2127.9	15°	2049.9	1955.0	1669.1	1261.1	912.0	698.4	648.7	650.9	657.7	662.2
2208.1	17.5°	2121.1	2010.4	1613.7	1101.8	731.1	628.3	629.4	632.8	638.5	643.0
2295.2	20°	2198.0	2065.7	1540.3	932.3	627.2	608.0	611.4	614.8	619.3	621.5
2376.5	22.5°	2280.5	2117.7	1453.3	766.2	592.2	591.0	592.2	595.5	601.2	601.2
2471.4	25°	2368.6	2175.4	1353.8	645.3	574.1	574.1	576.3	578.6	583.1	583.1
2563.0	27.5°	2459.0	2228.5	1248.7	582.0	558.2	557.1	557.1	560.5	562.8	563.9
2653.4	30°	2558.5	2290.6	1143.6	568.4	545.8	540.2	536.8	539.0	541.3	542.4
2748.3	32.5°	2660.2	2350.5	1049.8	574.1	533.4	523.2	511.9	509.7	509.7	514.2
2846.6	35°	2773.2	2416.1	977.5	593.3	526.6	498.4	480.3	470.1	471.2	478.0
2964.1	37.5°	2908.8	2495.2	924.4	610.2	522.1	470.1	440.7	428.3	420.4	428.3
3125.7	40°	3086.2	2611.6	886.0	623.8	516.4	437.3	397.8	377.4	362.7	367.3
3376.6	42.5°	3347.2	2794.6	871.3	624.9	504.0	398.9	353.7	326.6	305.1	306.2
3754.1	45°	3713.4	3083.9	947.0	610.2	476.9	357.1	307.4	271.2	257.7	254.3
4318.0	47.5°	4215.1	3505.4	1122.1	579.7	437.3	316.4	262.2	231.7	221.5	215.8
5058.1	50°	4887.5	4046.7	1316.5	545.8	397.8	278.0	224.9	205.7	198.9	193.2
5936.2	52.5°	5667.2	4596.0	1475.9	511.9	358.2	244.1	201.2	189.8	184.2	179.7
6783.7	55°	6382.6	4974.5	1466.8	475.8	319.8	217.0	184.2	177.4	170.6	166.1
7513.8	57.5°	6827.8	5027.6	1209.2	436.2	275.7	195.5	168.4	163.9	155.9	150.3
8145.5	60°	7032.4	4724.8	847.5	384.2	231.7	175.2	151.4	149.2	139.0	131.1
8743.3	62.5°	7069.7	4162.0	565.0	319.8	193.2	155.9	134.5	131.1	117.5	104.0
9229.2	65°	6918.2	3357.4	391.0	249.7	165.0	135.6	115.3	108.5	93.8	80.2
9344.5	67.5°	6439.1	2357.3	272.3	179.7	140.1	107.4	91.5	89.3	78.0	66.7
8756.8	70°	5561.0	1343.6	181.9	134.5	110.7	73.5	72.3	74.6	63.3	54.2
7154.4	72.5°	4263.7	614.8	113.0	98.3	75.7	49.7	57.6	58.8	48.6	40.7
4463.7	75°	2509.9	263.3	71.2	63.3	38.4	32.8	41.8	42.9	32.8	26.0
1631.8	77.5°	854.3	99.4	45.2	37.3	19.2	18.1	27.1	27.1	18.1	10.2
327.7	80°	194.4	37.3	22.6	14.7	9.0	7.9	9.0	7.9	4.5	1.1
100.6	82.5°	55.4	14.7	9.0	5.7	3.4	3.4	1.1	0.0	0.0	0.0
35.0	85°	15.8	6.8	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
12.4	87.5°	6.8	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>
1813.7
1656.7
1397.9
1076.9
791.0
681.4
662.2
643.0
622.7
603.5
584.2
565.0
544.7
517.6
481.4
426.0
365.0
301.7
249.7
212.5
192.1
178.5
163.9
149.2
128.8
97.2
75.7
63.3
49.7
36.2
22.6
7.9
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