

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: P943088

Luminaire Tested: **GALN-SB7B-927-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943088
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-SB7B-927-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 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: 18456 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

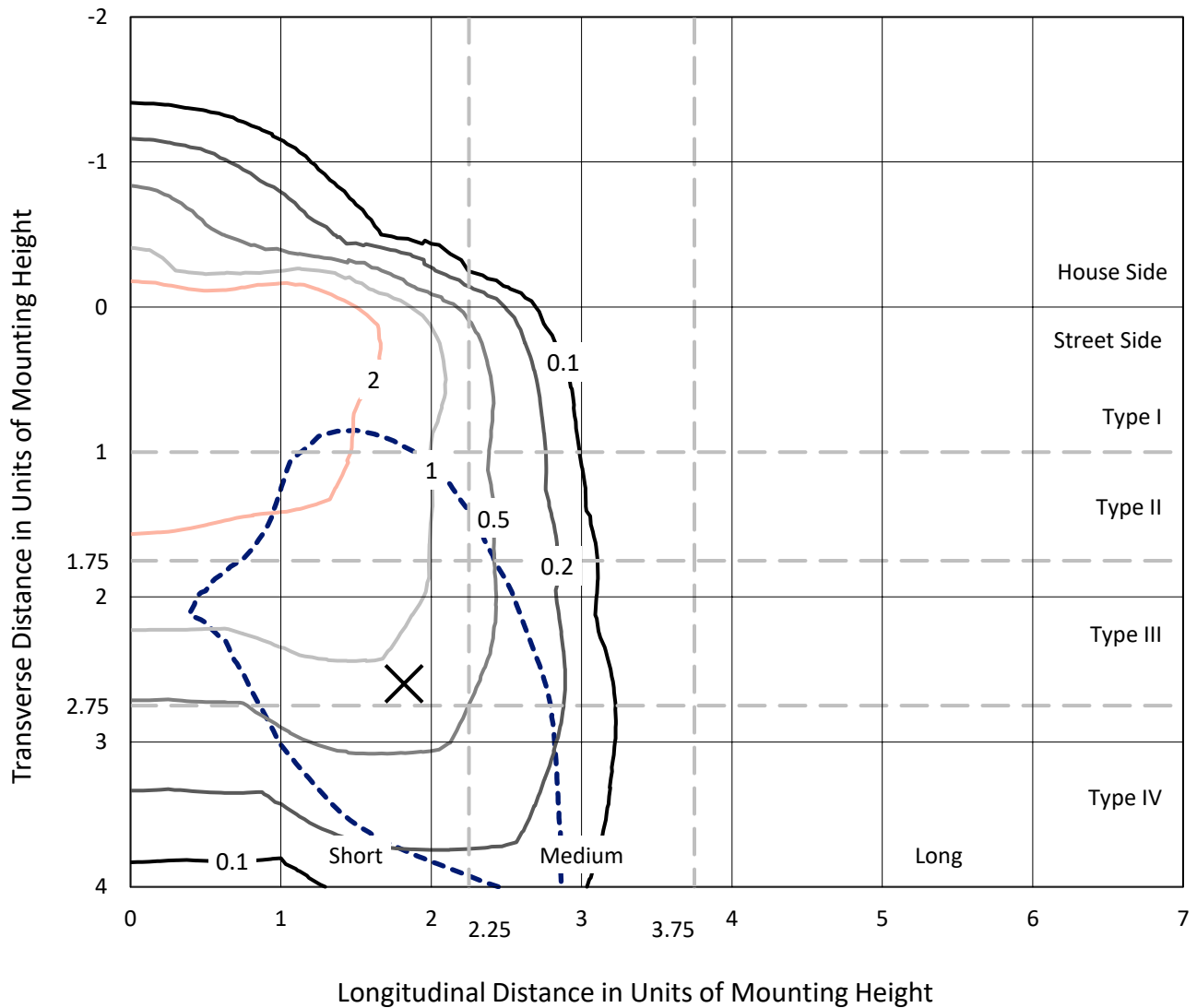
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

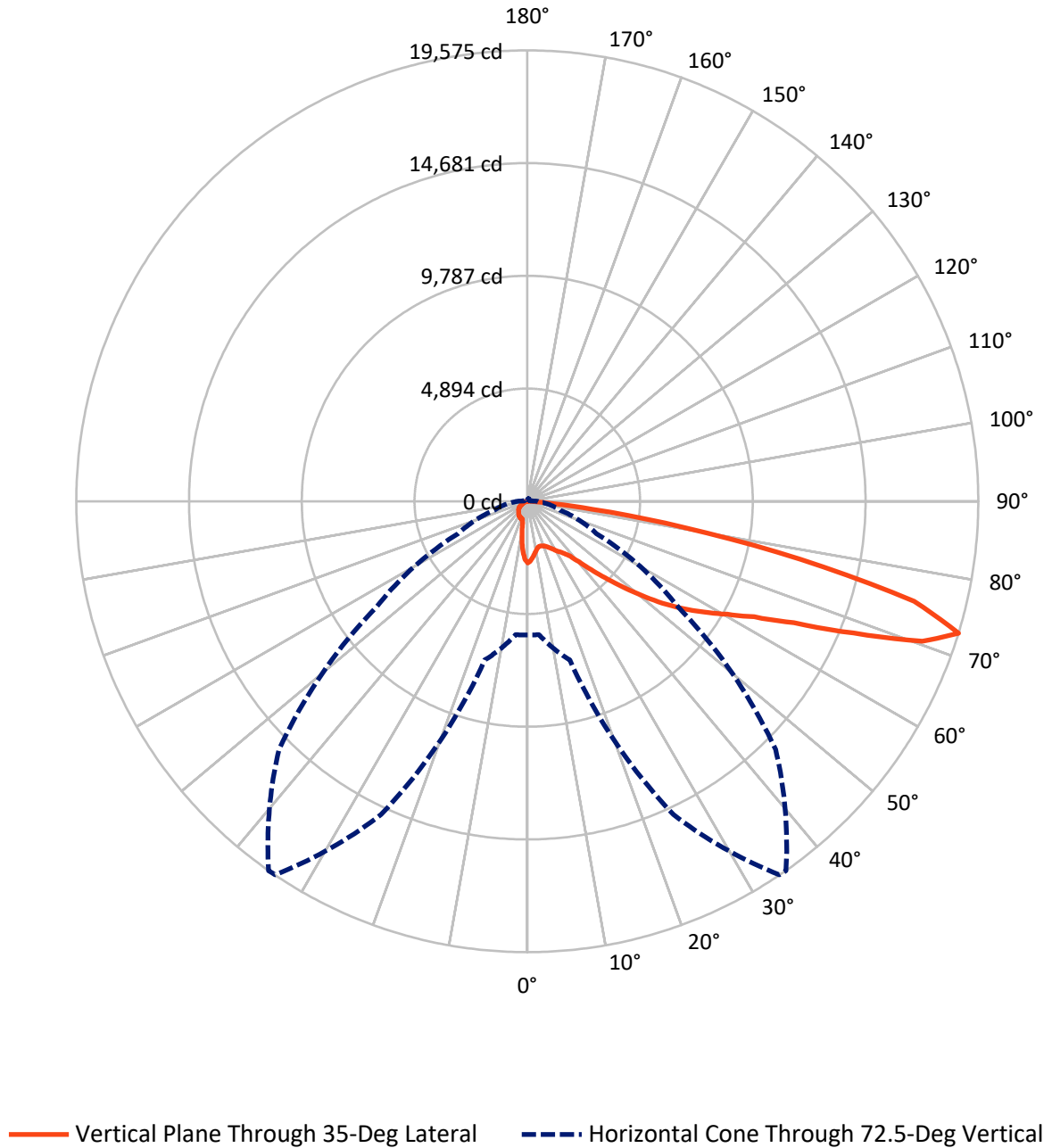
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	2077.1	0.0	2077.1
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	16378.9	0.0	16378.9
	% Fixture	88.7	0.0	88.7
Total	Lumens	18456.0	0.0	18456.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.8	1.2
10°-20°	514.2	2.8
20°-30°	835.3	4.5
30°-40°	1393.7	7.6
40°-50°	2637.0	14.3
50°-60°	4190.1	22.7
60°-70°	5183.4	28.1
70°-80°	3222.1	17.5
80°-90°	260.4	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°	18456.0	100.0
0°-180°	18456.0	100.0

Coefficient of Utilization



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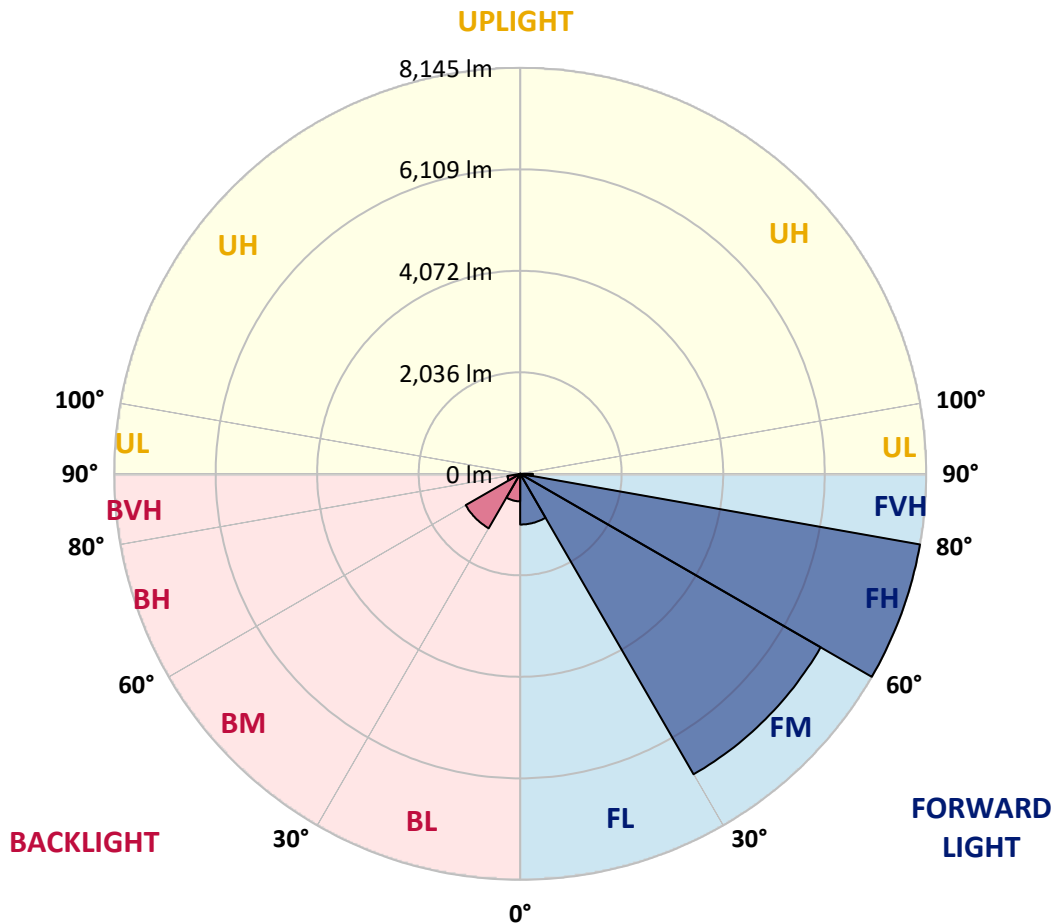
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1017.4	5.5			
FM (30°-60°)	6959.8	37.7			
FH (60°-80°)	8144.9	44.1			G4/12000
FVH (80°-90°)	256.9	1.4			G3/500
BL (0°-30°)	551.9	3.0	B2/1000		
BM (30°-60°)	1261.0	6.8	B2/2500		
BH (60°-80°)	260.6	1.4	B1/500		G1/500
BVH (80°-90°)	3.5	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°	2674.9	2674.9	2674.9	2674.9	2674.9	2674.9	2674.9	2674.9	2674.9	2674.9
2.5°	2555.9	2577.5	2581.6	2588.3	2588.3	2596.5	2610.0	2628.9	2660.0	2676.2
5°	2355.7	2372.0	2392.3	2408.5	2439.6	2443.6	2496.4	2547.8	2619.4	2673.5
7.5°	2154.2	2173.2	2200.2	2239.4	2280.0	2292.2	2372.0	2458.5	2572.1	2673.5
10°	2012.3	2013.6	2037.9	2077.2	2142.1	2157.0	2254.3	2377.4	2519.4	2657.3
12.5°	1932.5	1941.9	1952.8	1982.5	2044.7	2054.2	2158.3	2303.0	2466.6	2647.8
15°	1932.5	1939.2	1946.0	1960.9	2010.9	2019.0	2111.0	2255.7	2439.6	2651.9
17.5°	1952.8	1963.6	1958.2	1975.7	2028.5	2033.9	2115.0	2242.2	2438.2	2677.6
20°	2001.4	2009.6	1998.7	2009.6	2062.3	2073.1	2157.0	2267.8	2461.2	2722.2
22.5°	2078.5	2082.6	2056.9	2065.0	2119.1	2132.6	2230.0	2340.9	2516.7	2793.9
25°	2175.9	2184.0	2144.8	2154.2	2205.6	2221.9	2334.1	2450.4	2604.6	2892.6
27.5°	2288.1	2292.2	2258.4	2257.0	2323.3	2346.3	2459.9	2585.6	2722.2	3017.0
30°	2416.6	2428.8	2396.3	2390.9	2474.7	2493.7	2605.9	2752.0	2895.3	3203.7
32.5°	2518.0	2527.5	2508.6	2522.1	2607.3	2622.2	2783.1	2987.3	3167.1	3468.7
35°	2664.1	2669.5	2626.2	2650.6	2747.9	2785.8	3025.1	3317.2	3509.3	3801.4
37.5°	3192.8	3192.8	3008.9	2888.6	2981.9	3015.7	3356.5	3732.4	3931.2	4247.6
40°	3924.4	3912.3	3643.2	3397.0	3384.9	3451.1	3828.4	4255.8	4476.2	4783.2
42.5°	4704.7	4685.8	4319.3	4075.9	4035.3	4058.3	4373.4	4900.8	5125.3	5436.3
45°	5397.1	5391.7	5056.3	4729.1	4656.0	4729.1	5053.6	5655.4	5816.3	6143.6
47.5°	5977.3	5977.3	5732.5	5518.8	5481.0	5524.2	5974.6	6492.5	6477.6	6896.8
50°	6645.3	6639.9	6407.3	6315.3	6354.6	6415.4	7034.8	7374.2	7161.9	7636.6
52.5°	7113.2	7145.7	7065.9	7051.0	7251.2	7356.6	8111.2	8237.0	7774.5	8338.4
55°	7483.8	7521.6	7613.6	7717.7	8103.1	8241.1	9153.9	9055.1	8287.0	8947.0
57.5°	8008.5	7954.4	8096.4	8301.9	8925.3	9091.7	10164.1	9827.3	8699.5	9440.6
60°	8645.4	8653.5	8677.9	8937.5	9746.2	9959.9	11159.4	10557.6	8964.5	9743.5
62.5°	9410.8	9423.0	9473.0	9872.0	10848.3	11049.8	12219.6	11155.3	9086.3	9658.3
65°	9358.1	9409.5	9968.0	11332.5	12523.9	12722.6	13457.0	11574.5	8902.3	8879.3
67.5°	8525.0	8608.9	9543.3	13077.0	15050.0	15271.8	14952.6	11657.0	8108.5	6905.0
70°	7432.4	7462.1	8585.9	14645.6	17975.1	18199.6	16291.4	10749.6	6153.1	3851.4
72.5°	5804.2	5810.9	7129.4	15009.4	19562.7	19574.9	15240.7	7980.1	3309.1	1479.4
75°	4146.2	4105.7	4775.0	12172.3	17211.0	17348.9	11425.8	3743.2	1264.4	699.2
77.5°	2223.2	2267.8	2701.9	7218.7	11889.6	12124.9	6234.2	1079.2	643.7	476.0
80°	687.0	724.8	1107.6	3305.1	6734.6	6876.6	2311.1	480.1	449.0	339.4
82.5°	216.4	224.5	516.6	1388.8	2795.2	2860.2	669.4	271.8	307.0	224.5
85°	62.2	63.6	229.9	517.9	691.0	704.6	188.0	105.5	175.8	139.3
87.5°	6.8	21.6	86.5	86.5	60.9	59.5	20.3	23.0	50.0	17.6
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°
2674.9	0°	2674.9	2674.9	2674.9	2674.9	2674.9	2674.9	2674.9	2674.9	2674.9	2674.9
2687.1	2.5°	2680.3	2681.7	2664.1	2634.3	2601.9	2574.8	2541.0	2514.0	2495.0	2489.6
2711.4	5°	2699.2	2689.8	2639.7	2549.1	2440.9	2347.6	2243.5	2161.0	2106.9	2083.9
2737.1	7.5°	2727.6	2700.6	2591.0	2412.5	2205.6	2021.7	1835.1	1690.4	1598.4	1552.5
2761.4	10°	2752.0	2697.9	2509.9	2215.1	1898.7	1620.1	1368.6	1194.1	1096.7	1050.8
2789.8	12.5°	2775.0	2696.5	2404.4	1981.2	1552.5	1211.7	977.7	891.2	864.1	854.7
2835.8	15°	2818.2	2700.6	2271.9	1713.4	1207.6	915.5	830.3	829.0	834.4	831.7
2906.1	17.5°	2877.7	2704.6	2121.8	1429.4	931.7	807.3	803.3	815.5	823.6	819.5
2994.0	20°	2954.8	2720.9	1962.2	1148.1	800.6	780.3	789.8	800.6	807.3	800.6
3111.7	22.5°	3063.0	2749.3	1787.8	922.3	758.7	764.1	772.2	784.3	791.1	781.6
3261.8	25°	3195.5	2793.9	1616.0	801.9	738.4	745.1	757.3	770.8	778.9	769.5
3451.1	27.5°	3367.3	2865.6	1457.8	774.9	718.1	722.1	739.7	760.0	770.8	758.7
3720.2	30°	3616.1	2983.2	1321.2	787.1	705.9	696.4	720.8	749.2	761.4	750.5
4086.7	32.5°	3946.1	3149.6	1237.4	806.0	700.5	666.7	689.7	726.2	746.5	739.7
4565.4	35°	4378.8	3402.4	1204.9	827.6	696.4	635.6	651.8	691.0	726.2	733.0
5168.6	37.5°	4903.5	3754.0	1214.4	837.1	684.3	609.9	618.0	651.8	697.8	719.4
5847.4	40°	5499.9	4163.8	1268.5	827.6	670.8	588.3	589.6	615.3	655.9	688.3
6577.7	42.5°	6115.2	4642.5	1368.6	792.5	658.6	569.3	565.3	582.9	609.9	632.9
7306.6	45°	6700.8	5134.8	1467.3	743.8	643.7	550.4	540.9	547.7	553.1	562.6
8016.6	47.5°	7211.9	5481.0	1438.9	699.2	623.4	528.8	512.5	509.8	493.6	492.2
8650.8	50°	7564.9	5556.7	1277.9	654.5	593.7	504.4	478.7	462.5	434.1	420.6
9125.5	52.5°	7677.1	5257.8	1044.0	609.9	545.0	472.0	435.4	409.8	374.6	362.4
9398.6	55°	7528.4	4672.3	834.4	555.8	477.4	428.7	388.1	354.3	325.9	311.0
9428.4	57.5°	7164.6	3927.1	659.9	492.2	405.7	380.0	339.4	305.6	281.3	266.4
9098.4	60°	6561.5	3118.5	522.0	416.5	346.2	327.3	285.3	263.7	242.1	224.5
8246.5	62.5°	5645.9	2225.9	409.8	330.0	289.4	267.8	243.4	227.2	201.5	177.2
6714.3	65°	4405.9	1361.8	316.4	242.1	232.6	221.8	206.9	192.0	160.9	136.6
4380.2	67.5°	2779.0	645.1	225.8	182.6	183.9	178.5	171.7	159.6	136.6	114.9
1962.2	70°	1223.9	312.4	148.8	139.3	136.6	136.6	142.0	137.9	116.3	96.0
681.6	72.5°	416.5	167.7	110.9	105.5	98.7	97.4	119.0	114.9	93.3	74.4
339.4	75°	217.7	112.2	81.1	75.7	59.5	71.7	94.7	89.3	66.3	48.7
224.5	77.5°	142.0	79.8	55.4	48.7	33.8	47.3	70.3	62.2	39.2	24.3
147.4	80°	89.3	52.7	32.5	23.0	16.2	25.7	37.9	27.0	14.9	5.4
86.5	82.5°	47.3	27.0	12.2	8.1	6.8	8.1	9.5	6.8	2.7	0.0
44.6	85°	18.9	9.5	4.1	2.7	1.4	0.0	2.7	1.4	0.0	0.0
8.1	87.5°	6.8	1.4	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>
2674.9
2499.1
2092.0
1559.2
1052.1
852.0
830.3
818.2
799.2
780.3
768.1
758.7
749.2
739.7
733.0
724.8
699.2
642.4
568.0
490.9
421.9
361.1
311.0
263.7
220.4
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132.5
112.2
92.0
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