

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: P939948

Luminaire Tested: **GALN-SB2D-740-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939948
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-SB2D-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 900mA 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: 16301 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

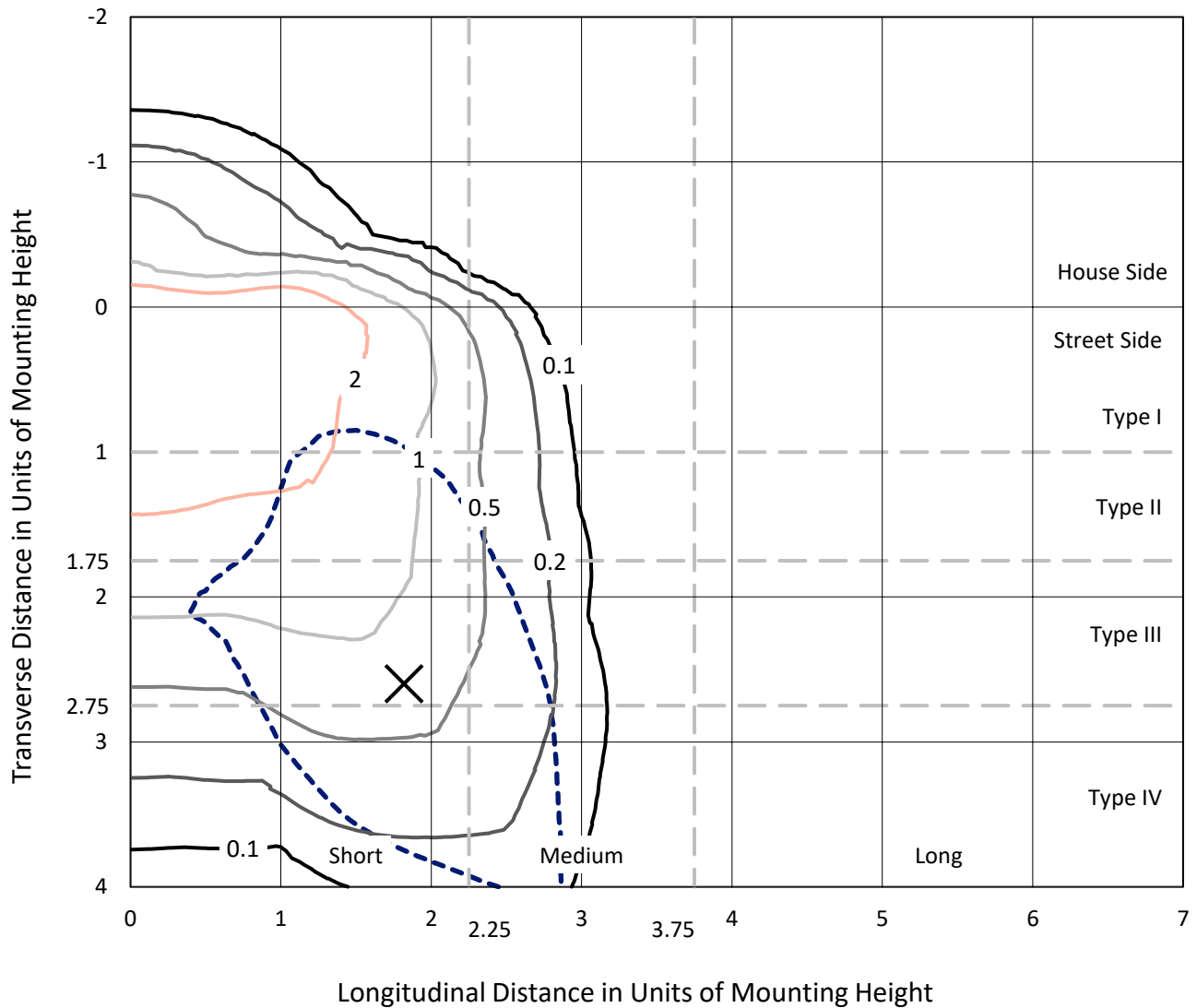
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

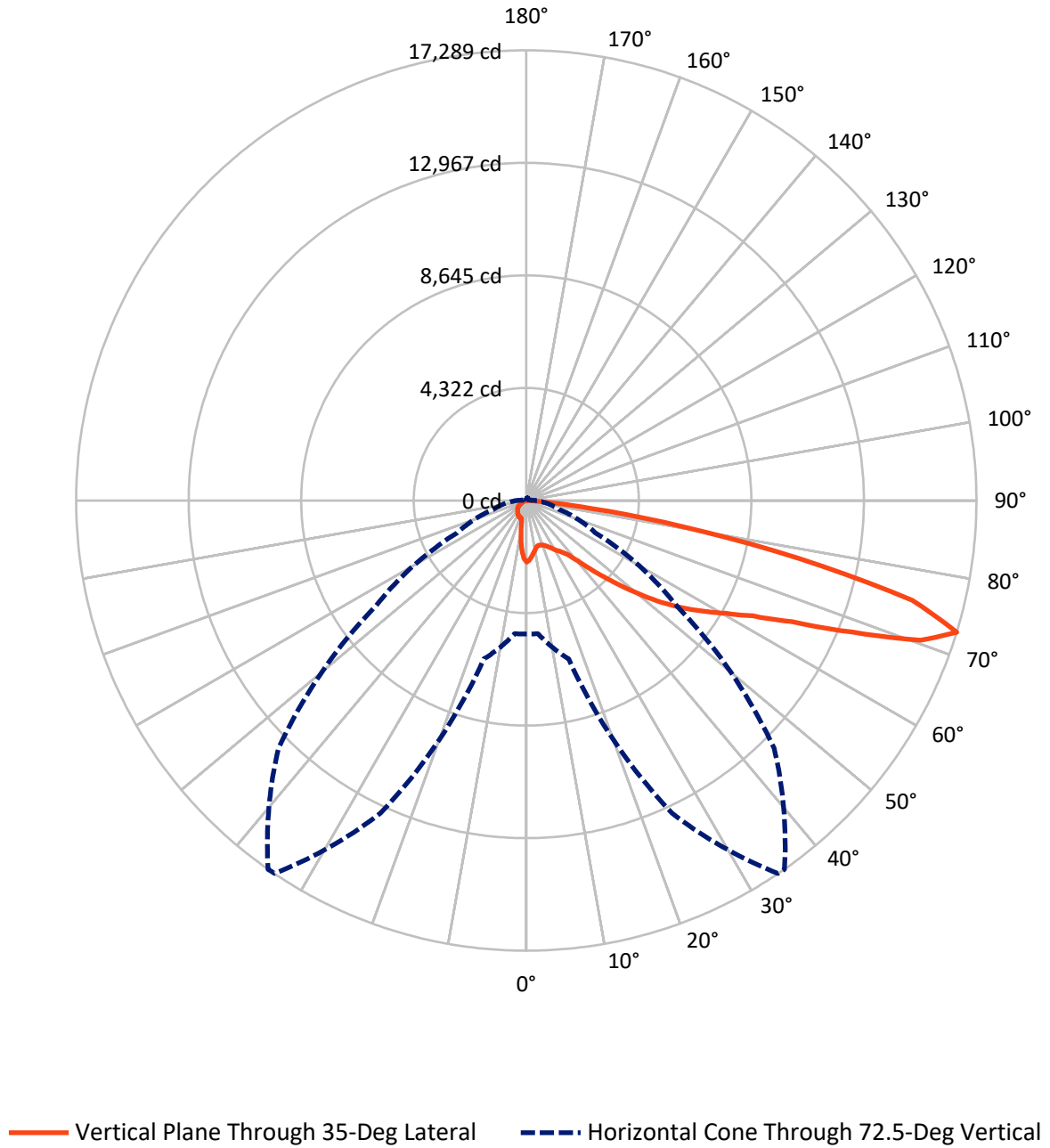
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	1834.6	0.0	1834.6
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	14466.4	0.0	14466.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	16301.0	0.0	16301.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.1	1.2
10°-20°	454.2	2.8
20°-30°	737.8	4.5
30°-40°	1231.0	7.6
40°-50°	2329.1	14.3
50°-60°	3700.8	22.7
60°-70°	4578.2	28.1
70°-80°	2845.8	17.5
80°-90°	230.0	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°	16301.0	100.0
0°-180°	16301.0	100.0

Coefficient of Utilization



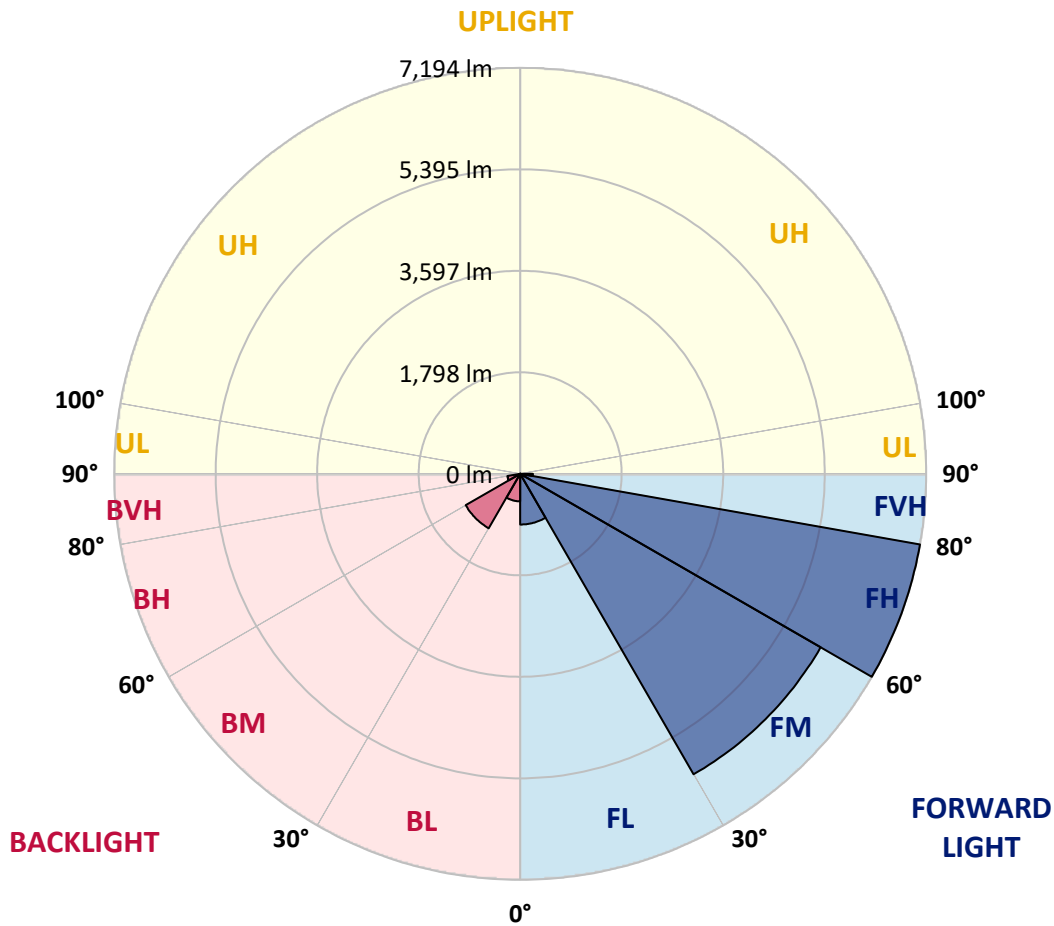
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	898.6	5.5			
FM (30°-60°)	6147.1	37.7			
FH (60°-80°)	7193.8	44.1			G3/7500
FVH (80°-90°)	226.9	1.4			G3/500
BL (0°-30°)	487.5	3.0	B1/500		
BM (30°-60°)	1113.8	6.8	B2/2500		
BH (60°-80°)	230.2	1.4	B1/500		G1/500
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	2362.6	2362.6	2362.6	2362.6	2362.6	2362.6	2362.6	2362.6	2362.6	2362.6
2.5°	2257.5	2276.6	2280.1	2286.1	2286.1	2293.3	2305.2	2322.0	2349.4	2363.8
5°	2080.7	2095.0	2112.9	2127.3	2154.7	2158.3	2204.9	2250.3	2313.6	2361.4
7.5°	1902.7	1919.4	1943.3	1978.0	2013.8	2024.5	2095.0	2171.5	2271.8	2361.4
10°	1777.3	1778.5	1800.0	1834.6	1892.0	1905.1	1991.1	2099.8	2225.2	2347.0
12.5°	1706.8	1715.2	1724.7	1751.0	1806.0	1814.3	1906.3	2034.1	2178.6	2338.7
15°	1706.8	1712.8	1718.8	1731.9	1776.1	1783.3	1864.5	1992.3	2154.7	2342.3
17.5°	1724.7	1734.3	1729.5	1745.0	1791.6	1796.4	1868.1	1980.3	2153.5	2365.0
20°	1767.7	1774.9	1765.4	1774.9	1821.5	1831.0	1905.1	2003.0	2173.8	2404.4
22.5°	1835.8	1839.4	1816.7	1823.9	1871.7	1883.6	1969.6	2067.5	2222.8	2467.7
25°	1921.8	1929.0	1894.3	1902.7	1948.1	1962.4	2061.6	2164.3	2300.5	2554.9
27.5°	2021.0	2024.5	1994.7	1993.5	2052.0	2072.3	2172.6	2283.7	2404.4	2664.7
30°	2134.4	2145.2	2116.5	2111.7	2185.8	2202.5	2301.6	2430.6	2557.3	2829.6
32.5°	2224.0	2232.4	2215.6	2227.6	2302.8	2316.0	2458.1	2638.5	2797.3	3063.7
35°	2353.0	2357.8	2319.6	2341.1	2427.1	2460.5	2671.9	2929.9	3099.5	3357.5
37.5°	2820.0	2820.0	2657.6	2551.3	2633.7	2663.6	2964.5	3296.6	3472.2	3751.7
40°	3466.2	3455.5	3217.8	3000.4	2989.6	3048.2	3381.4	3758.8	3953.5	4224.7
42.5°	4155.4	4138.7	3815.0	3600.0	3564.1	3584.5	3862.8	4328.6	4526.8	4801.6
45°	4766.9	4762.1	4465.9	4176.9	4112.4	4176.9	4463.5	4995.1	5137.2	5426.2
47.5°	5279.3	5279.3	5063.1	4874.4	4841.0	4879.2	5276.9	5734.4	5721.3	6091.5
50°	5869.4	5864.6	5659.2	5577.9	5612.6	5666.3	6213.4	6513.2	6325.6	6744.9
52.5°	6282.6	6311.3	6240.8	6227.7	6404.5	6497.6	7164.1	7275.2	6866.7	7364.8
55°	6609.9	6643.4	6724.6	6816.6	7157.0	7278.8	8085.0	7997.8	7319.4	7902.3
57.5°	7073.4	7025.6	7151.0	7332.5	7883.2	8030.1	8977.3	8679.8	7683.7	8338.2
60°	7635.9	7643.1	7664.6	7893.9	8608.2	8796.9	9856.3	9324.8	7917.8	8605.8
62.5°	8312.0	8322.7	8366.9	8719.3	9581.6	9759.6	10792.8	9852.8	8025.3	8530.5
65°	8265.4	8310.8	8804.1	10009.2	11061.5	11237.1	11885.7	10223.0	7862.9	7842.6
67.5°	7529.6	7603.7	8429.0	11550.0	13292.7	13488.6	13206.7	10295.9	7161.7	6098.7
70°	6564.5	6590.8	7583.4	12935.6	15876.2	16074.5	14389.2	9494.4	5434.6	3401.7
72.5°	5126.4	5132.4	6297.0	13256.9	17278.5	17289.2	13461.1	7048.3	2922.7	1306.7
75°	3662.1	3626.3	4217.5	10751.0	15201.4	15323.2	10091.6	3306.2	1116.8	617.5
77.5°	1963.6	2003.0	2386.4	6375.8	10501.3	10709.2	5506.3	953.1	568.5	420.4
80°	606.8	640.2	978.2	2919.2	5948.2	6073.6	2041.3	424.0	396.5	299.8
82.5°	191.1	198.3	456.3	1226.7	2468.9	2526.2	591.2	240.1	271.1	198.3
85°	54.9	56.1	203.1	457.5	610.3	622.3	166.0	93.2	155.3	123.0
87.5°	6.0	19.1	76.4	76.4	53.7	52.6	17.9	20.3	44.2	15.5
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°
2362.6	0°	2362.6	2362.6	2362.6	2362.6	2362.6	2362.6	2362.6	2362.6	2362.6	2362.6
2373.3	2.5°	2367.3	2368.5	2353.0	2326.7	2298.1	2274.2	2244.3	2220.4	2203.7	2198.9
2394.8	5°	2384.1	2375.7	2331.5	2251.5	2155.9	2073.5	1981.5	1908.7	1860.9	1840.6
2417.5	7.5°	2409.1	2385.3	2288.5	2130.8	1948.1	1785.7	1620.8	1493.0	1411.8	1371.2
2439.0	10°	2430.6	2382.9	2216.8	1956.5	1677.0	1430.9	1208.8	1054.7	968.7	928.1
2464.1	12.5°	2450.9	2381.7	2123.7	1749.8	1371.2	1070.2	863.6	787.1	763.2	754.9
2504.7	15°	2489.2	2385.3	2006.6	1513.3	1066.6	808.6	733.4	732.2	737.0	734.6
2566.8	17.5°	2541.7	2388.8	1874.0	1262.5	823.0	713.1	709.5	720.2	727.4	723.8
2644.4	20°	2609.8	2403.2	1733.1	1014.1	707.1	689.2	697.5	707.1	713.1	707.1
2748.4	22.5°	2705.4	2428.3	1579.0	814.6	670.1	674.8	682.0	692.8	698.7	690.4
2880.9	25°	2822.4	2467.7	1427.3	708.3	652.2	658.1	668.9	680.8	688.0	679.6
3048.2	27.5°	2974.1	2531.0	1287.6	684.4	634.2	637.8	653.3	671.3	680.8	670.1
3285.8	30°	3193.9	2634.9	1166.9	695.2	623.5	615.1	636.6	661.7	672.5	662.9
3609.5	32.5°	3485.3	2781.8	1092.9	711.9	618.7	588.8	609.2	641.4	659.3	653.3
4032.4	35°	3867.5	3005.2	1064.2	731.0	615.1	561.4	575.7	610.3	641.4	647.4
4565.1	37.5°	4331.0	3315.7	1072.6	739.3	604.4	538.7	545.8	575.7	616.3	635.4
5164.7	40°	4857.7	3677.6	1120.4	731.0	592.4	519.6	520.8	543.5	579.3	608.0
5809.7	42.5°	5401.2	4100.4	1208.8	699.9	581.7	502.9	499.3	514.8	538.7	559.0
6453.4	45°	5918.3	4535.2	1295.9	656.9	568.5	486.1	477.8	483.7	488.5	496.9
7080.5	47.5°	6369.8	4841.0	1270.9	617.5	550.6	467.0	452.7	450.3	436.0	434.8
7640.7	50°	6681.6	4907.9	1128.7	578.1	524.4	445.5	422.8	408.5	383.4	371.5
8059.9	52.5°	6780.7	4643.9	922.1	538.7	481.4	416.9	384.6	361.9	330.9	320.1
8301.2	55°	6649.3	4126.7	737.0	490.9	421.6	378.6	342.8	312.9	287.9	274.7
8327.5	57.5°	6328.0	3468.6	582.9	434.8	358.3	335.6	299.8	269.9	248.4	235.3
8036.1	60°	5795.3	2754.3	461.0	367.9	305.8	289.0	252.0	232.9	213.8	198.3
7283.6	62.5°	4986.7	1966.0	361.9	291.4	255.6	236.5	215.0	200.7	178.0	156.5
5930.3	65°	3891.4	1202.8	279.5	213.8	205.4	195.9	182.7	169.6	142.1	120.6
3868.7	67.5°	2454.5	569.7	199.5	161.2	162.4	157.7	151.7	140.9	120.6	101.5
1733.1	70°	1080.9	275.9	131.4	123.0	120.6	120.6	125.4	121.8	102.7	84.8
602.0	72.5°	367.9	148.1	97.9	93.2	87.2	86.0	105.1	101.5	82.4	65.7
299.8	75°	192.3	99.1	71.7	66.9	52.6	63.3	83.6	78.8	58.5	43.0
198.3	77.5°	125.4	70.5	49.0	43.0	29.9	41.8	62.1	54.9	34.6	21.5
130.2	80°	78.8	46.6	28.7	20.3	14.3	22.7	33.4	23.9	13.1	4.8
76.4	82.5°	41.8	23.9	10.7	7.2	6.0	7.2	8.4	6.0	2.4	0.0
39.4	85°	16.7	8.4	3.6	2.4	1.2	0.0	2.4	1.2	0.0	0.0
7.2	87.5°	6.0	1.2	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>
2362.6
2207.3
1847.8
1377.2
929.3
752.5
733.4
722.6
705.9
689.2
678.4
670.1
661.7
653.3
647.4
640.2
617.5
567.3
501.7
433.6
372.7
318.9
274.7
232.9
194.7
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