

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: P940958

Luminaire Tested: **GALN-SB4B-735-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940958
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-SB4B-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 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: 17087 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

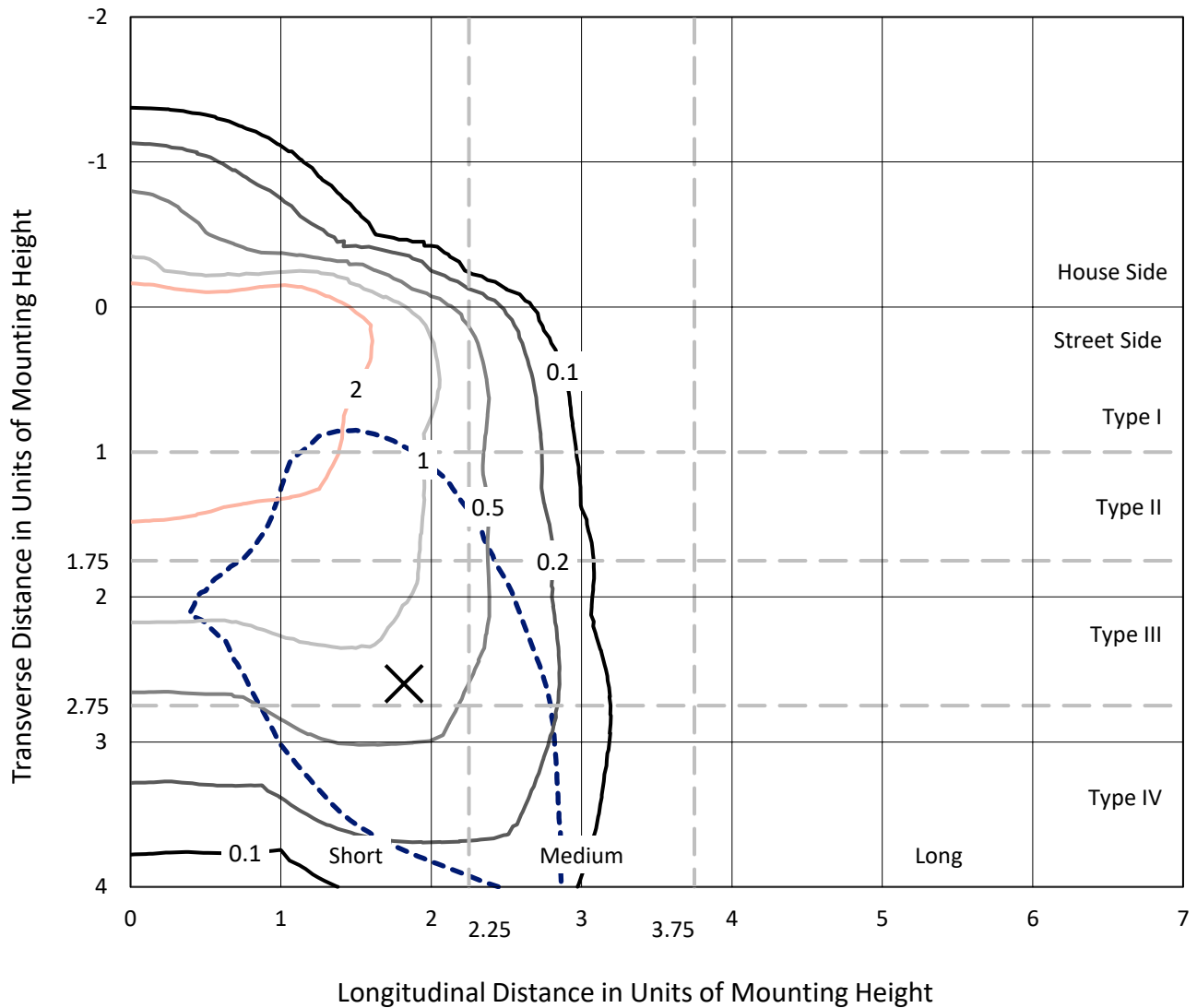
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

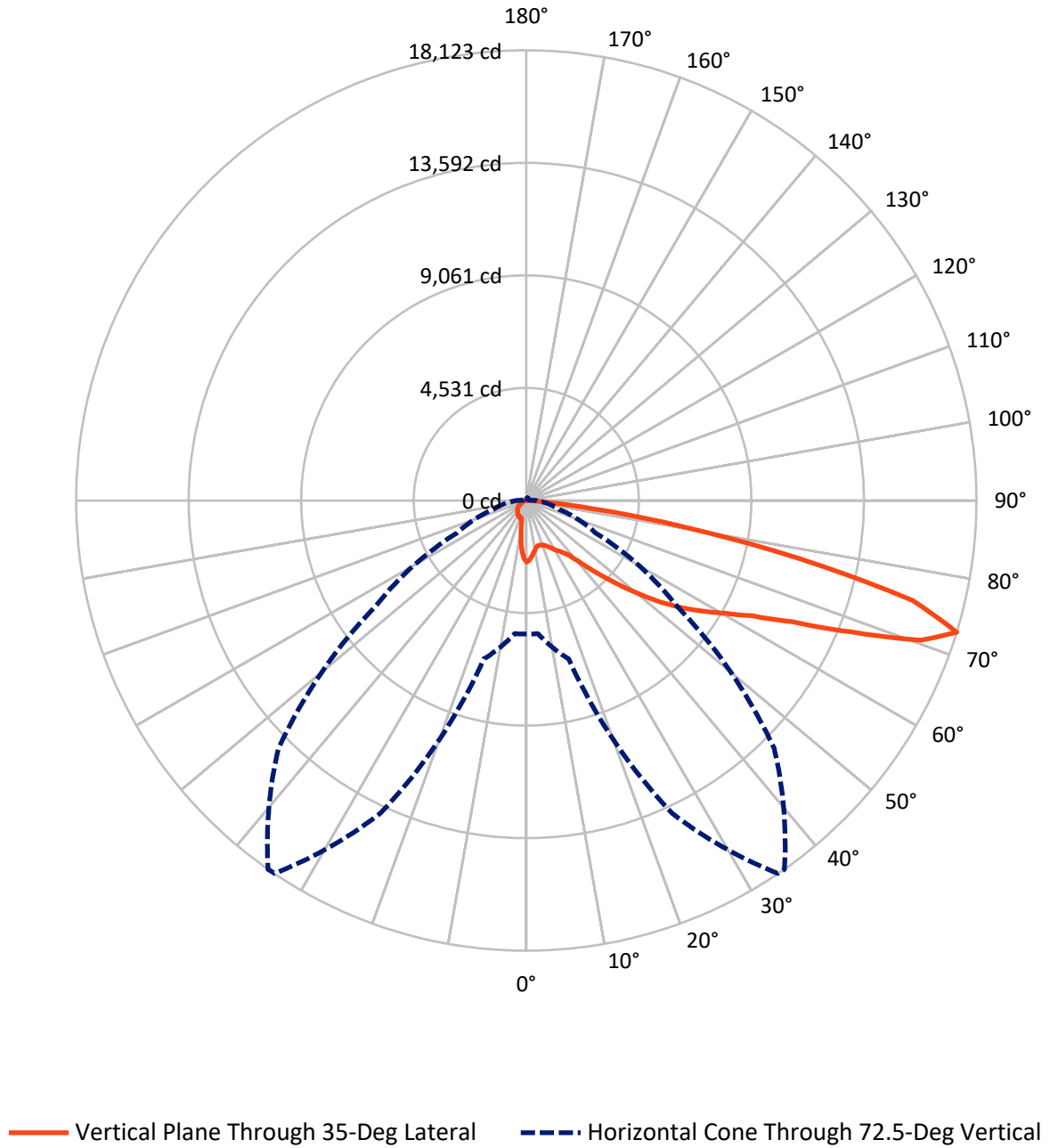
✕ Max cd
 - - - 1/2 Max cd



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	1923.1	0.0	1923.1
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	15163.9	0.0	15163.9
	% Fixture	88.7	0.0	88.7
Total	Lumens	17087.0	0.0	17087.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.5	1.2
10°-20°	476.1	2.8
20°-30°	773.4	4.5
30°-40°	1290.3	7.6
40°-50°	2441.4	14.3
50°-60°	3879.3	22.7
60°-70°	4799.0	28.1
70°-80°	2983.1	17.5
80°-90°	241.1	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°	17087.0	100.0
0°-180°	17087.0	100.0

Coefficient of Utilization



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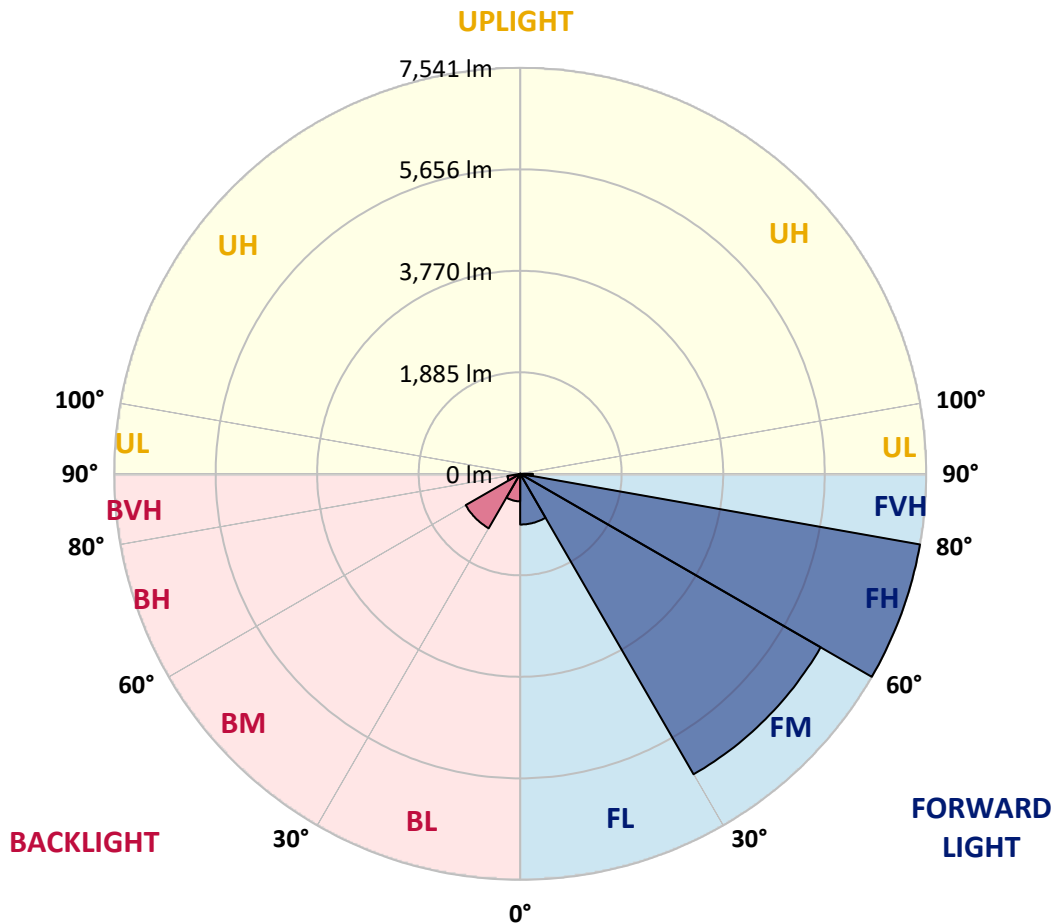
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	941.9	5.5			
FM (30°-60°)	6443.5	37.7			
FH (60°-80°)	7540.7	44.1			G4/12000
FVH (80°-90°)	237.8	1.4			G3/500
BL (0°-30°)	511.0	3.0	B2/1000		
BM (30°-60°)	1167.5	6.8	B2/2500		
BH (60°-80°)	241.3	1.4	B1/500		G1/500
BVH (80°-90°)	3.3	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°	2476.5	2476.5	2476.5	2476.5	2476.5	2476.5	2476.5	2476.5	2476.5	2476.5
2.5°	2366.3	2386.3	2390.1	2396.4	2396.4	2403.9	2416.4	2433.9	2462.7	2477.7
5°	2181.0	2196.0	2214.8	2229.8	2258.6	2262.4	2311.2	2358.8	2425.1	2475.2
7.5°	1994.5	2012.0	2037.0	2073.3	2110.9	2122.2	2196.0	2276.2	2381.3	2475.2
10°	1863.0	1864.2	1886.8	1923.1	1983.2	1997.0	2087.1	2201.0	2332.5	2460.2
12.5°	1789.1	1797.9	1807.9	1835.4	1893.0	1901.8	1998.2	2132.2	2283.7	2451.4
15°	1789.1	1795.4	1801.6	1815.4	1861.7	1869.3	1954.4	2088.4	2258.6	2455.2
17.5°	1807.9	1817.9	1812.9	1829.2	1878.0	1883.0	1958.1	2075.8	2257.4	2479.0
20°	1853.0	1860.5	1850.5	1860.5	1909.3	1919.3	1997.0	2099.6	2278.7	2520.3
22.5°	1924.3	1928.1	1904.3	1911.8	1961.9	1974.4	2064.6	2167.2	2330.0	2586.7
25°	2014.5	2022.0	1985.7	1994.5	2042.0	2057.1	2161.0	2268.6	2411.4	2678.1
27.5°	2118.4	2122.2	2090.9	2089.6	2151.0	2172.2	2277.4	2393.8	2520.3	2793.2
30°	2237.3	2248.6	2218.6	2213.6	2291.2	2308.7	2412.6	2547.8	2680.6	2966.0
32.5°	2331.2	2340.0	2322.5	2335.0	2413.9	2427.7	2576.6	2765.7	2932.2	3211.4
35°	2466.5	2471.5	2431.4	2453.9	2544.1	2579.1	2800.8	3071.2	3249.0	3519.4
37.5°	2956.0	2956.0	2785.7	2674.3	2760.7	2792.0	3107.5	3455.6	3639.6	3932.6
40°	3633.3	3622.1	3372.9	3145.1	3133.8	3195.1	3544.4	3940.1	4144.2	4428.4
42.5°	4355.7	4338.2	3998.9	3773.6	3736.0	3757.3	4049.0	4537.3	4745.1	5033.1
45°	4996.8	4991.8	4681.3	4378.3	4310.7	4378.3	4678.8	5235.9	5384.9	5687.9
47.5°	5533.9	5533.9	5307.3	5109.5	5074.4	5114.5	5531.4	6010.9	5997.1	6385.3
50°	6152.4	6147.4	5932.0	5846.9	5883.2	5939.5	6513.0	6827.2	6630.7	7070.1
52.5°	6585.6	6615.6	6541.8	6528.0	6713.3	6810.9	7509.6	7626.0	7197.8	7719.9
55°	6928.6	6963.7	7048.8	7145.2	7502.1	7629.8	8474.9	8383.5	7672.3	8283.3
57.5°	7414.4	7364.3	7495.8	7686.1	8263.3	8417.3	9410.1	9098.4	8054.2	8740.3
60°	8004.1	8011.6	8034.2	8274.5	9023.2	9221.1	10331.6	9774.5	8299.6	9020.7
62.5°	8712.7	8724.0	8770.3	9139.7	10043.6	10230.2	11313.2	10327.8	8412.3	8941.9
65°	8663.9	8711.5	9228.6	10491.9	11594.9	11778.9	12458.8	10716.0	8242.0	8220.7
67.5°	7892.7	7970.3	8835.4	12107.0	13933.6	14139.0	13843.5	10792.3	7507.1	6392.8
70°	6881.1	6908.6	7949.0	13559.3	16641.7	16849.6	15083.0	9952.2	5696.7	3565.7
72.5°	5373.6	5379.9	6600.6	13896.1	18111.6	18122.9	14110.2	7388.1	3063.7	1369.7
75°	3838.7	3801.1	4420.9	11269.4	15934.4	16062.1	10578.2	3465.6	1170.6	647.3
77.5°	2058.3	2099.6	2501.5	6683.2	11007.7	11225.5	5771.8	999.1	596.0	440.7
80°	636.0	671.1	1025.4	3059.9	6235.0	6366.5	2139.7	444.5	415.7	314.3
82.5°	200.3	207.8	478.3	1285.8	2587.9	2648.0	619.7	251.7	284.2	207.8
85°	57.6	58.8	212.8	479.5	639.8	652.3	174.0	97.7	162.8	129.0
87.5°	6.3	20.0	80.1	80.1	56.3	55.1	18.8	21.3	46.3	16.3
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°
2476.5	0°	2476.5	2476.5	2476.5	2476.5	2476.5	2476.5	2476.5	2476.5	2476.5	2476.5
2487.7	2.5°	2481.5	2482.7	2466.5	2438.9	2408.9	2383.8	2352.5	2327.5	2310.0	2305.0
2510.3	5°	2499.0	2490.3	2443.9	2360.0	2259.9	2173.5	2077.1	2000.7	1950.6	1929.4
2534.1	7.5°	2525.3	2500.3	2398.9	2233.6	2042.0	1871.8	1699.0	1565.0	1479.9	1437.3
2556.6	10°	2547.8	2497.8	2323.7	2050.8	1757.8	1499.9	1267.0	1105.5	1015.4	972.8
2582.9	12.5°	2569.1	2496.5	2226.1	1834.2	1437.3	1121.8	905.2	825.1	800.0	791.3
2625.5	15°	2609.2	2500.3	2103.4	1586.3	1118.0	847.6	768.7	767.5	772.5	770.0
2690.6	17.5°	2664.3	2504.0	1964.4	1323.4	862.6	747.5	743.7	755.0	762.5	758.7
2772.0	20°	2735.6	2519.0	1816.7	1063.0	741.2	722.4	731.2	741.2	747.5	741.2
2880.9	22.5°	2835.8	2545.3	1655.2	853.9	702.4	707.4	714.9	726.2	732.4	723.7
3019.9	25°	2958.5	2586.7	1496.2	742.4	683.6	689.9	701.1	713.6	721.2	712.4
3195.1	27.5°	3117.5	2653.0	1349.7	717.4	664.8	668.6	684.9	703.6	713.6	702.4
3444.3	30°	3347.9	2761.9	1223.2	728.7	653.6	644.8	667.3	693.6	704.9	694.9
3783.6	32.5°	3653.4	2915.9	1145.6	746.2	648.5	617.2	638.5	672.3	691.1	684.9
4226.8	35°	4054.0	3150.1	1115.5	766.2	644.8	588.4	603.5	639.8	672.3	678.6
4785.2	37.5°	4539.8	3475.6	1124.3	775.0	633.5	564.7	572.2	603.5	646.0	666.1
5413.7	40°	5091.9	3854.9	1174.4	766.2	621.0	544.6	545.9	569.7	607.2	637.3
6089.8	42.5°	5661.6	4298.2	1267.0	733.7	609.7	527.1	523.3	539.6	564.7	585.9
6764.6	45°	6203.7	4753.9	1358.4	688.6	596.0	509.6	500.8	507.1	512.1	520.8
7421.9	47.5°	6677.0	5074.4	1332.1	647.3	577.2	489.5	474.5	472.0	457.0	455.7
8009.1	50°	7003.8	5144.5	1183.2	606.0	549.6	467.0	443.2	428.2	401.9	389.4
8448.6	52.5°	7107.7	4867.8	966.6	564.7	504.6	437.0	403.1	379.4	346.8	335.5
8701.5	55°	6969.9	4325.7	772.5	514.6	442.0	396.9	359.3	328.0	301.7	288.0
8729.0	57.5°	6633.2	3635.8	611.0	455.7	375.6	351.8	314.3	283.0	260.4	246.6
8423.5	60°	6074.8	2887.1	483.3	385.6	320.5	303.0	264.2	244.1	224.1	207.8
7634.8	62.5°	5227.1	2060.8	379.4	305.5	267.9	247.9	225.4	210.3	186.5	164.0
6216.2	65°	4079.1	1260.8	293.0	224.1	215.3	205.3	191.6	177.8	149.0	126.5
4055.3	67.5°	2572.9	597.2	209.1	169.0	170.3	165.3	159.0	147.7	126.5	106.4
1816.7	70°	1133.1	289.2	137.7	129.0	126.5	126.5	131.5	127.7	107.7	88.9
631.0	72.5°	385.6	155.2	102.7	97.7	91.4	90.1	110.2	106.4	86.4	68.9
314.3	75°	201.6	103.9	75.1	70.1	55.1	66.4	87.6	82.6	61.3	45.1
207.8	77.5°	131.5	73.9	51.3	45.1	31.3	43.8	65.1	57.6	36.3	22.5
136.5	80°	82.6	48.8	30.0	21.3	15.0	23.8	35.1	25.0	13.8	5.0
80.1	82.5°	43.8	25.0	11.3	7.5	6.3	7.5	8.8	6.3	2.5	0.0
41.3	85°	17.5	8.8	3.8	2.5	1.3	0.0	2.5	1.3	0.0	0.0
7.5	87.5°	6.3	1.3	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>
2476.5
2313.7
1936.9
1443.6
974.1
788.8
768.7
757.5
739.9
722.4
711.1
702.4
693.6
684.9
678.6
671.1
647.3
594.7
525.8
454.5
390.6
334.3
288.0
244.1
204.1
160.3
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41.3
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