

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: P941238

Luminaire Tested: **GALN-SB4C-935-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941238
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-SB4C-935-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 3500K, 615mA 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: 15809 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

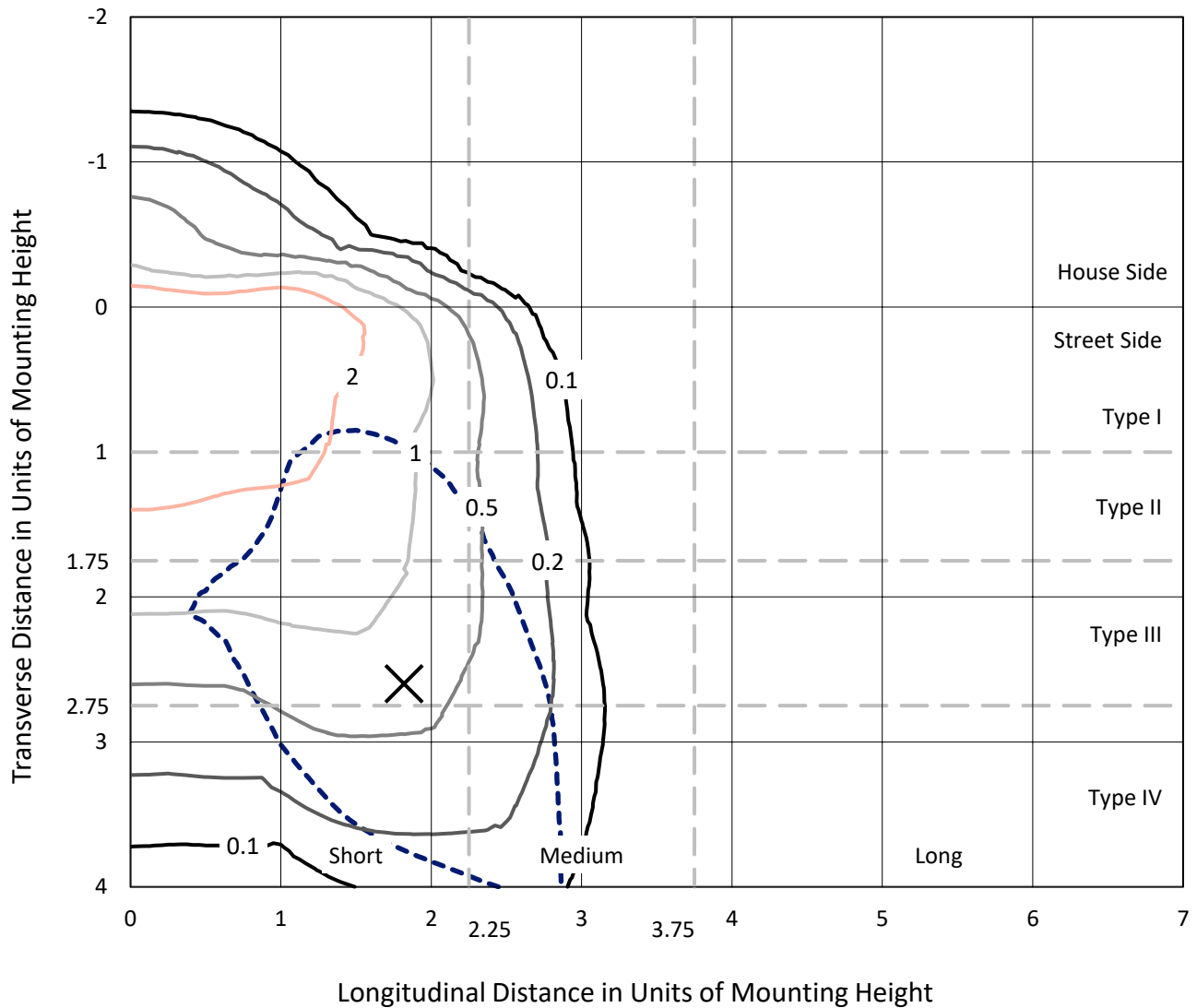
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

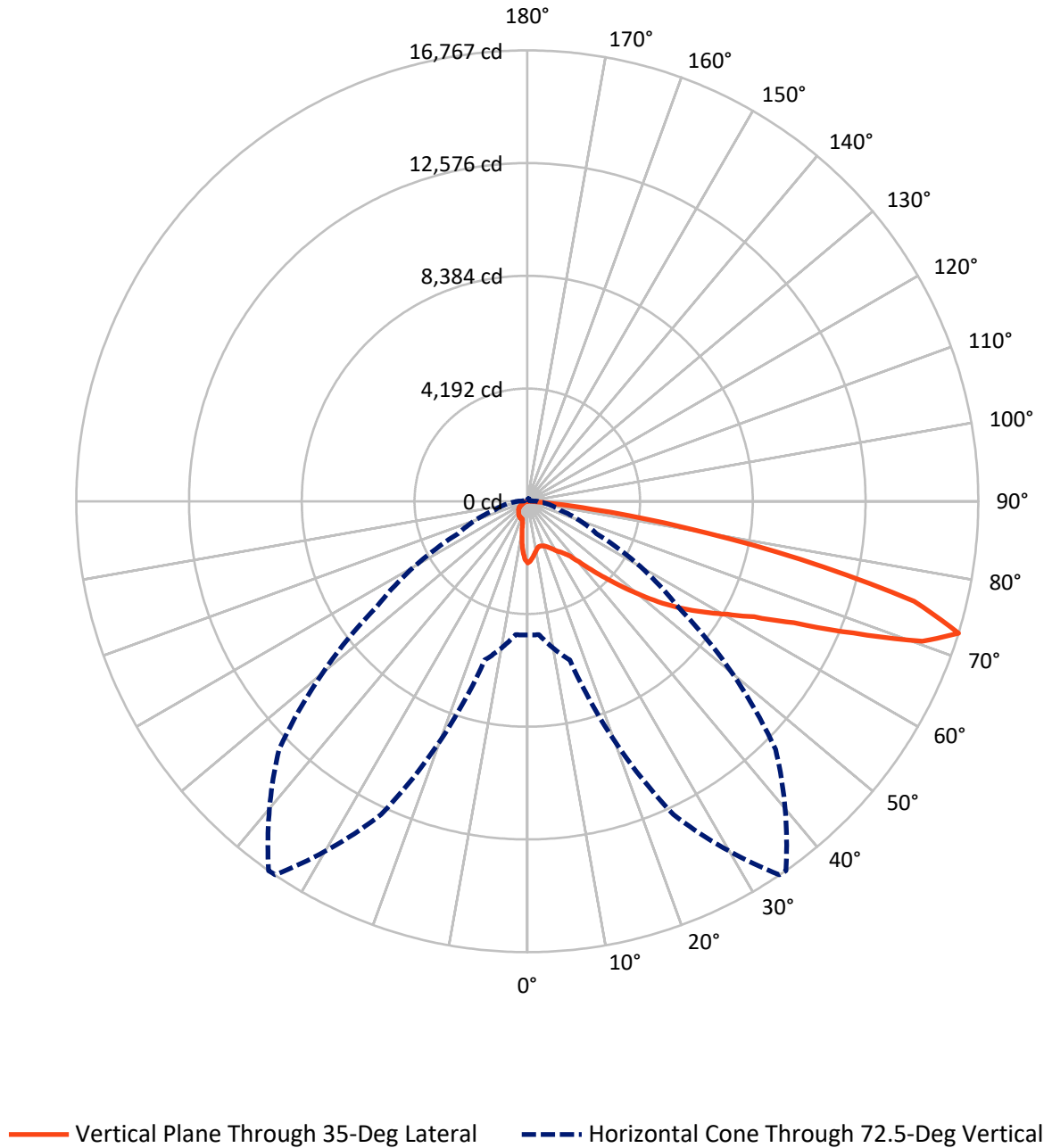
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	1779.2	0.0	1779.2
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	14029.8	0.0	14029.8
	% Fixture	88.7	0.0	88.7
Total	Lumens	15809.0	0.0	15809.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.3	1.2
10°-20°	440.5	2.8
20°-30°	715.5	4.5
30°-40°	1193.8	7.6
40°-50°	2258.8	14.3
50°-60°	3589.1	22.7
60°-70°	4440.0	28.1
70°-80°	2760.0	17.5
80°-90°	223.1	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°	15809.0	100.0
0°-180°	15809.0	100.0

Coefficient of Utilization



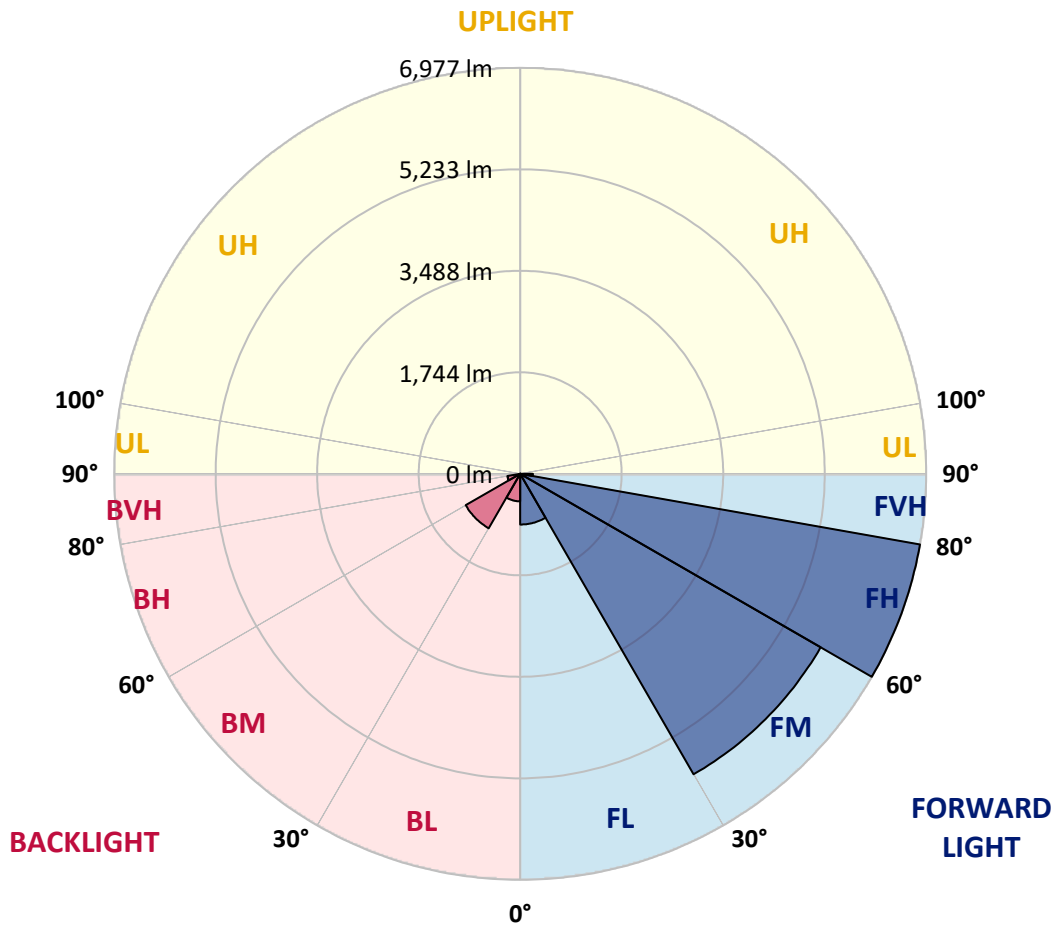
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	871.5	5.5			
FM (30°-60°)	5961.6	37.7			
FH (60°-80°)	6976.7	44.1			G3/7500
FVH (80°-90°)	220.0	1.4			G2/225
BL (0°-30°)	472.8	3.0	B1/500		
BM (30°-60°)	1080.2	6.8	B2/2500		
BH (60°-80°)	223.3	1.4	B1/500		G1/500
BVH (80°-90°)	3.0	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°	2291.3	2291.3	2291.3	2291.3	2291.3	2291.3	2291.3	2291.3	2291.3	2291.3
2.5°	2189.3	2207.9	2211.3	2217.1	2217.1	2224.1	2235.7	2251.9	2278.5	2292.4
5°	2017.9	2031.8	2049.2	2063.1	2089.7	2093.2	2138.3	2182.4	2243.8	2290.1
7.5°	1845.3	1861.5	1884.7	1918.3	1953.0	1963.4	2031.8	2105.9	2203.2	2290.1
10°	1723.7	1724.8	1745.7	1779.3	1834.9	1847.6	1931.0	2036.4	2158.0	2276.2
12.5°	1655.3	1663.4	1672.7	1698.2	1751.5	1759.6	1848.8	1972.7	2112.9	2268.1
15°	1655.3	1661.1	1666.9	1679.6	1722.5	1729.4	1808.2	1932.2	2089.7	2271.6
17.5°	1672.7	1682.0	1677.3	1692.4	1737.6	1742.2	1811.7	1920.6	2088.5	2293.6
20°	1714.4	1721.3	1712.1	1721.3	1766.5	1775.8	1847.6	1942.6	2108.2	2331.8
22.5°	1780.4	1783.9	1761.9	1768.8	1815.2	1826.7	1910.2	2005.1	2155.7	2393.2
25°	1863.8	1870.8	1837.2	1845.3	1889.3	1903.2	1999.3	2099.0	2231.0	2477.8
27.5°	1960.0	1963.4	1934.5	1933.3	1990.1	2009.8	2107.1	2214.8	2331.8	2584.3
30°	2070.0	2080.4	2052.6	2048.0	2119.8	2136.0	2232.2	2357.3	2480.1	2744.2
32.5°	2156.9	2165.0	2148.8	2160.4	2233.3	2246.1	2383.9	2558.8	2712.9	2971.2
35°	2282.0	2286.6	2249.6	2270.4	2353.8	2386.2	2591.3	2841.5	3006.0	3256.2
37.5°	2734.9	2734.9	2577.4	2474.3	2554.2	2583.2	2875.1	3197.1	3367.4	3638.4
40°	3361.6	3351.2	3120.6	2909.8	2899.4	2956.2	3279.3	3645.4	3834.2	4097.2
42.5°	4030.0	4013.7	3699.8	3491.3	3456.6	3476.3	3746.2	4197.9	4390.2	4656.6
45°	4623.1	4618.4	4331.1	4050.8	3988.3	4050.8	4328.8	4844.3	4982.1	5262.5
47.5°	5120.0	5120.0	4910.3	4727.3	4694.9	4731.9	5117.7	5561.3	5548.6	5907.7
50°	5692.2	5687.6	5488.4	5409.6	5443.2	5495.3	6025.8	6316.6	6134.7	6541.3
52.5°	6093.0	6120.8	6052.5	6039.7	6211.2	6301.5	6947.9	7055.6	6659.5	7142.5
55°	6410.4	6442.8	6521.6	6610.8	6940.9	7059.1	7841.0	7756.4	7098.5	7663.8
57.5°	6859.9	6813.5	6935.2	7111.2	7645.2	7787.7	8706.3	8417.9	7451.8	8086.6
60°	7405.5	7412.4	7433.3	7655.7	8348.4	8531.4	9558.9	9043.4	7678.8	8346.0
62.5°	8061.1	8071.5	8114.4	8456.1	9292.4	9465.0	10467.0	9555.4	7783.1	8273.1
65°	8015.9	8059.9	8538.3	9707.1	10727.7	10897.9	11526.9	9914.5	7625.5	7605.9
67.5°	7302.4	7374.2	8174.6	11201.4	12891.5	13081.5	12808.1	9985.1	6945.6	5914.6
70°	6366.4	6391.9	7354.5	12545.1	15397.0	15589.3	13954.9	9207.9	5270.6	3299.0
72.5°	4971.7	4977.5	6106.9	12856.7	16757.0	16767.4	13054.8	6835.5	2834.5	1267.3
75°	3551.6	3516.8	4090.2	10426.5	14742.6	14860.7	9787.1	3206.4	1083.1	598.9
77.5°	1904.4	1942.6	2314.4	6183.4	10184.4	10385.9	5340.1	924.4	551.4	407.7
80°	588.5	620.9	948.7	2831.1	5768.7	5890.3	1979.7	411.2	384.6	290.8
82.5°	185.3	192.3	442.5	1189.6	2394.3	2450.0	573.4	232.8	262.9	192.3
85°	53.3	54.4	196.9	443.7	591.9	603.5	161.0	90.4	150.6	119.3
87.5°	5.8	18.5	74.1	74.1	52.1	51.0	17.4	19.7	42.9	15.1
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°
2291.3	0°	2291.3	2291.3	2291.3	2291.3	2291.3	2291.3	2291.3	2291.3	2291.3	2291.3
2301.7	2.5°	2295.9	2297.0	2282.0	2256.5	2228.7	2205.5	2176.6	2153.4	2137.2	2132.6
2322.5	5°	2312.1	2304.0	2261.1	2183.5	2090.9	2010.9	1921.7	1851.1	1804.7	1785.0
2344.5	7.5°	2336.4	2313.3	2219.4	2066.5	1889.3	1731.8	1571.9	1448.0	1369.2	1329.8
2365.4	10°	2357.3	2310.9	2149.9	1897.4	1626.4	1387.7	1172.3	1022.8	939.4	900.1
2389.7	12.5°	2377.0	2309.8	2059.6	1697.0	1329.8	1037.9	837.5	763.4	740.2	732.1
2429.1	15°	2414.0	2313.3	1946.1	1467.7	1034.4	784.2	711.2	710.1	714.7	712.4
2489.3	17.5°	2465.0	2316.7	1817.5	1224.4	798.1	691.5	688.1	698.5	705.4	702.0
2564.6	20°	2531.0	2330.6	1680.8	983.5	685.8	668.4	676.5	685.8	691.5	685.8
2665.4	22.5°	2623.7	2355.0	1531.4	790.0	649.8	654.5	661.4	671.9	677.6	669.5
2794.0	25°	2737.2	2393.2	1384.3	686.9	632.5	638.3	648.7	660.3	667.2	659.1
2956.2	27.5°	2884.3	2454.6	1248.7	663.7	615.1	618.6	633.6	651.0	660.3	649.8
3186.7	30°	3097.5	2555.4	1131.7	674.2	604.7	596.6	617.4	641.7	652.2	642.9
3500.6	32.5°	3380.1	2697.8	1059.9	690.4	600.0	571.1	590.8	622.0	639.4	633.6
3910.7	35°	3750.8	2914.5	1032.1	708.9	596.6	544.4	558.3	591.9	622.0	627.8
4427.3	37.5°	4200.2	3215.6	1040.2	717.0	586.1	522.4	529.4	558.3	597.7	616.3
5008.8	40°	4711.1	3566.6	1086.6	708.9	574.6	503.9	505.0	527.1	561.8	589.6
5634.3	42.5°	5238.1	3976.7	1172.3	678.8	564.1	487.7	484.2	499.3	522.4	542.1
6258.7	45°	5739.7	4398.3	1256.8	637.1	551.4	471.5	463.3	469.1	473.8	481.9
6866.8	47.5°	6177.6	4694.9	1232.5	598.9	534.0	452.9	439.0	436.7	422.8	421.6
7410.1	50°	6479.9	4759.7	1094.7	560.7	508.5	432.1	410.1	396.2	371.8	360.3
7816.7	52.5°	6576.1	4503.7	894.3	522.4	466.8	404.3	373.0	351.0	320.9	310.4
8050.7	55°	6448.6	4002.2	714.7	476.1	408.9	367.2	332.5	303.5	279.2	266.4
8076.1	57.5°	6137.0	3363.9	565.3	421.6	347.5	325.5	290.8	261.8	240.9	228.2
7793.5	60°	5620.4	2671.2	447.1	356.8	296.5	280.3	244.4	225.9	207.3	192.3
7063.7	62.5°	4836.2	1906.7	351.0	282.6	247.9	229.4	208.5	194.6	172.6	151.7
5751.3	65°	3774.0	1166.5	271.1	207.3	199.2	190.0	177.2	164.5	137.8	117.0
3752.0	67.5°	2380.4	552.5	193.4	156.4	157.5	152.9	147.1	136.7	117.0	98.5
1680.8	70°	1048.3	267.6	127.4	119.3	117.0	117.0	121.6	118.2	99.6	82.2
583.8	72.5°	356.8	143.6	95.0	90.4	84.6	83.4	101.9	98.5	79.9	63.7
290.8	75°	186.5	96.1	69.5	64.9	51.0	61.4	81.1	76.5	56.8	41.7
192.3	77.5°	121.6	68.3	47.5	41.7	29.0	40.5	60.2	53.3	33.6	20.9
126.3	80°	76.5	45.2	27.8	19.7	13.9	22.0	32.4	23.2	12.7	4.6
74.1	82.5°	40.5	23.2	10.4	7.0	5.8	7.0	8.1	5.8	2.3	0.0
38.2	85°	16.2	8.1	3.5	2.3	1.2	0.0	2.3	1.2	0.0	0.0
7.0	87.5°	5.8	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>
2291.3
2140.7
1792.0
1335.6
901.2
729.8
711.2
700.8
684.6
668.4
658.0
649.8
641.7
633.6
627.8
620.9
598.9
550.2
486.5
420.5
361.4
309.3
266.4
225.9
188.8
148.3
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