

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: P941008

Luminaire Tested: **GALN-SB4B-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941008
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-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 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: 15354 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

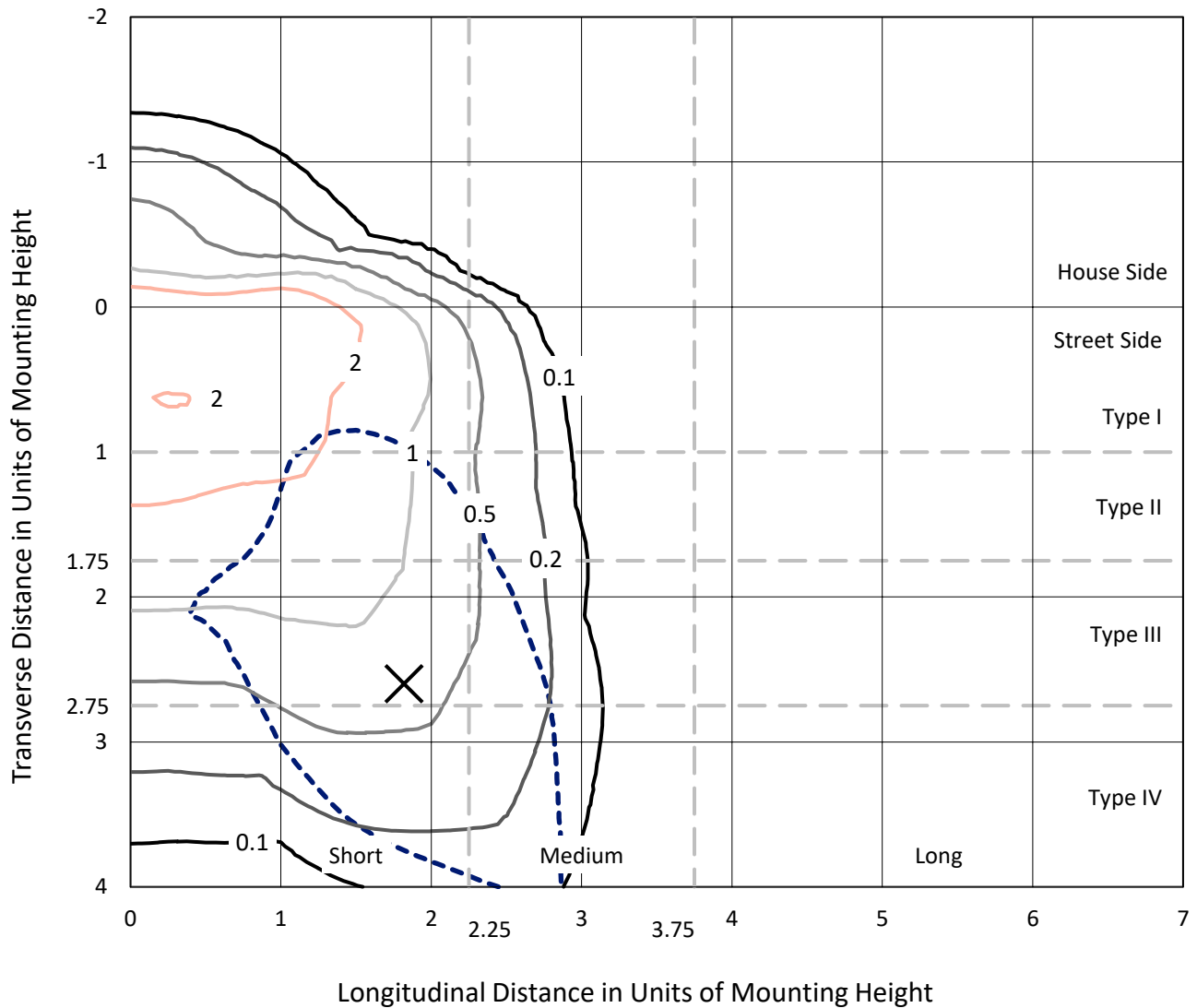
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

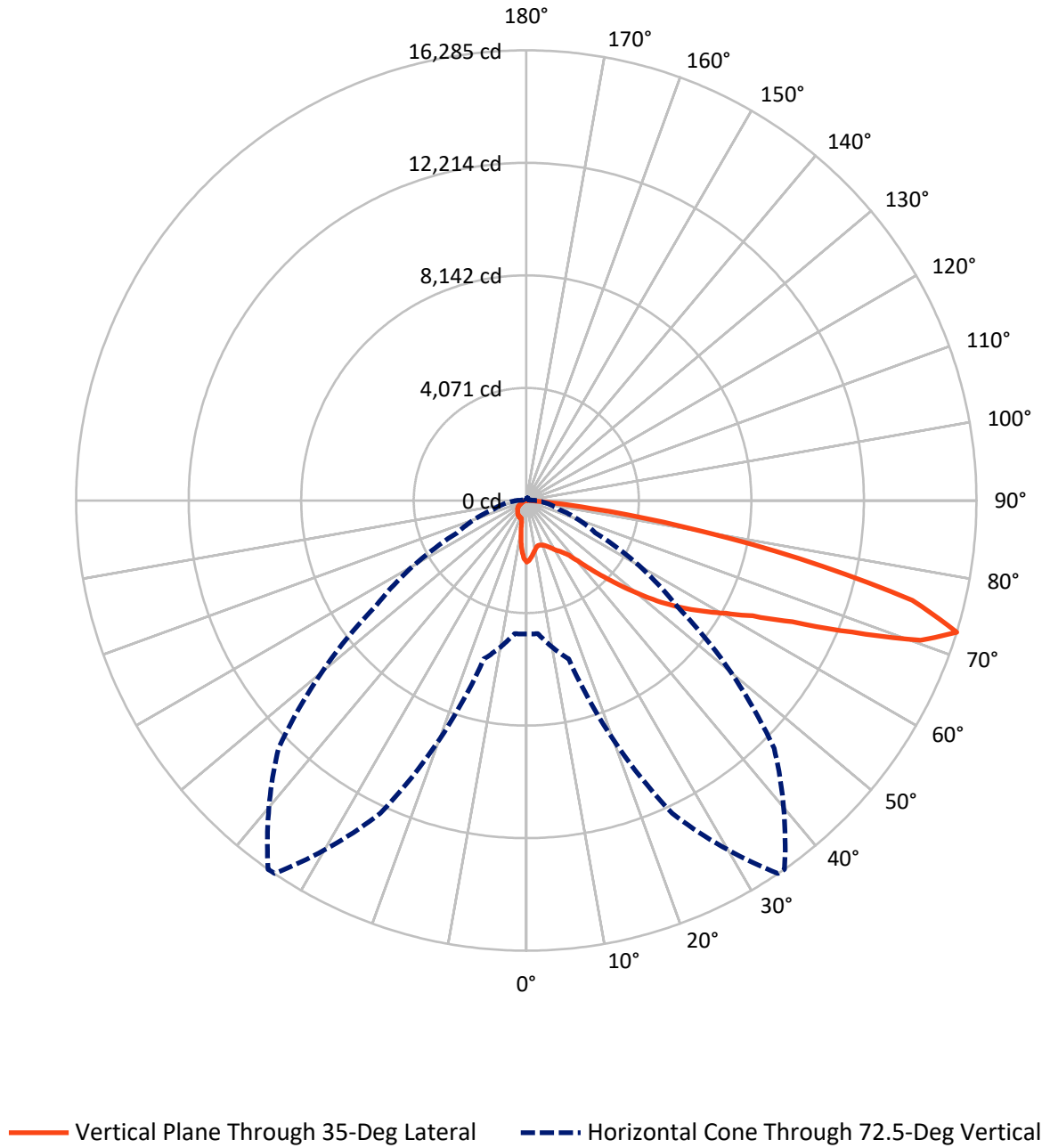
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	1728.0	0.0	1728.0
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	13626.0	0.0	13626.0
	% Fixture	88.7	0.0	88.7
Total	Lumens	15354.0	0.0	15354.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.9	1.2
10°-20°	427.8	2.8
20°-30°	694.9	4.5
30°-40°	1159.5	7.6
40°-50°	2193.7	14.3
50°-60°	3485.8	22.7
60°-70°	4312.2	28.1
70°-80°	2680.5	17.5
80°-90°	216.6	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°	15354.0	100.0
0°-180°	15354.0	100.0

Coefficient of Utilization



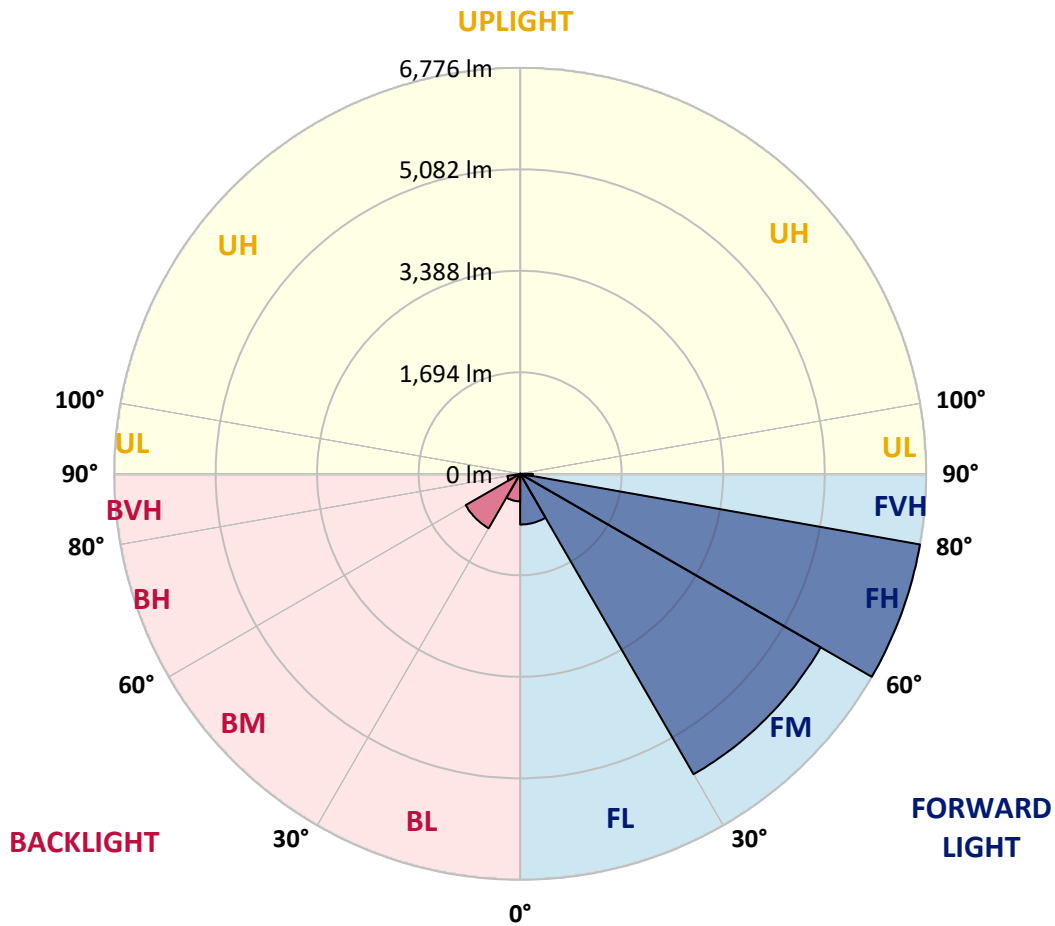
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	846.4	5.5			
FM (30°-60°)	5790.0	37.7			
FH (60°-80°)	6775.9	44.1			G3/7500
FVH (80°-90°)	213.7	1.4			G2/225
BL (0°-30°)	459.2	3.0	B1/500		
BM (30°-60°)	1049.1	6.8	B2/2500		
BH (60°-80°)	216.8	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°	2225.3	2225.3	2225.3	2225.3	2225.3	2225.3	2225.3	2225.3	2225.3	2225.3
2.5°	2126.3	2144.3	2147.7	2153.3	2153.3	2160.1	2171.3	2187.1	2212.9	2226.4
5°	1959.8	1973.3	1990.2	2003.7	2029.6	2032.9	2076.8	2119.6	2179.2	2224.2
7.5°	1792.2	1807.9	1830.4	1863.0	1896.8	1906.9	1973.3	2045.3	2139.8	2224.2
10°	1674.0	1675.2	1695.4	1728.0	1782.0	1794.4	1875.4	1977.8	2095.9	2210.7
12.5°	1607.7	1615.5	1624.5	1649.3	1701.0	1708.9	1795.5	1915.9	2052.1	2202.8
15°	1607.7	1613.3	1618.9	1631.3	1672.9	1679.7	1756.2	1876.6	2029.6	2206.2
17.5°	1624.5	1633.5	1629.0	1643.7	1687.5	1692.0	1759.5	1865.3	2028.4	2227.6
20°	1665.0	1671.8	1662.8	1671.8	1715.7	1724.7	1794.4	1886.7	2047.6	2264.7
22.5°	1729.2	1732.5	1711.2	1717.9	1762.9	1774.2	1855.2	1947.4	2093.7	2324.3
25°	1810.2	1816.9	1784.3	1792.2	1834.9	1848.4	1941.8	2038.6	2166.8	2406.4
27.5°	1903.6	1906.9	1878.8	1877.7	1932.8	1951.9	2046.4	2151.1	2264.7	2509.9
30°	2010.4	2020.6	1993.6	1989.1	2058.8	2074.6	2167.9	2289.4	2408.7	2665.2
32.5°	2094.8	2102.7	2086.9	2098.2	2169.1	2181.4	2315.3	2485.2	2634.8	2885.7
35°	2216.3	2220.8	2184.8	2205.1	2286.1	2317.6	2516.7	2759.7	2919.5	3162.5
37.5°	2656.2	2656.2	2503.2	2403.1	2480.7	2508.8	2792.3	3105.1	3270.5	3533.7
40°	3264.8	3254.7	3030.8	2826.1	2816.0	2871.1	3185.0	3540.5	3723.8	3979.2
42.5°	3914.0	3898.2	3593.3	3390.8	3357.1	3376.2	3638.3	4077.1	4263.9	4522.6
45°	4490.0	4485.5	4206.5	3934.2	3873.5	3934.2	4204.2	4704.9	4838.8	5111.0
47.5°	4972.6	4972.6	4769.0	4591.2	4559.7	4595.7	4970.4	5401.3	5388.9	5737.7
50°	5528.4	5523.9	5330.4	5253.9	5286.5	5337.1	5852.4	6134.8	5958.2	6353.0
52.5°	5917.7	5944.7	5878.3	5865.9	6032.4	6120.2	6747.9	6852.6	6467.8	6936.9
55°	6225.9	6257.4	6333.9	6420.5	6741.2	6855.9	7615.3	7533.2	6894.2	7443.2
57.5°	6662.4	6617.4	6735.6	6906.6	7425.2	7563.6	8455.7	8175.6	7237.3	7853.8
60°	7192.3	7199.1	7219.3	7435.3	8108.1	8285.8	9283.7	8783.1	7457.8	8105.8
62.5°	7829.1	7839.2	7880.8	8212.7	9025.0	9192.6	10165.8	9280.4	7559.1	8035.0
65°	7785.2	7828.0	8292.6	9427.8	10418.9	10584.3	11195.2	9629.1	7406.1	7386.9
67.5°	7092.2	7161.9	7939.3	10879.0	12520.5	12705.0	12439.5	9697.8	6745.7	5744.4
70°	6183.2	6207.9	7142.8	12184.1	14953.9	15140.7	13553.2	8942.9	5118.9	3204.1
72.5°	4828.6	4834.3	5931.2	12486.7	16274.7	16284.8	12679.1	6638.8	2752.9	1230.8
75°	3449.3	3415.6	3972.5	10126.4	14318.3	14433.0	9505.4	3114.1	1051.9	581.6
77.5°	1849.5	1886.7	2247.8	6005.4	9891.3	10087.0	5186.4	897.8	535.5	396.0
80°	571.5	603.0	921.4	2749.6	5602.6	5720.8	1922.7	399.4	373.5	282.4
82.5°	180.0	186.8	429.8	1155.4	2325.4	2379.4	556.9	226.1	255.4	186.8
85°	51.8	52.9	191.3	430.9	574.9	586.1	156.4	87.8	146.3	115.9
87.5°	5.6	18.0	72.0	72.0	50.6	49.5	16.9	19.1	41.6	14.6
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°
2225.3	0°	2225.3	2225.3	2225.3	2225.3	2225.3	2225.3	2225.3	2225.3	2225.3	2225.3
2235.4	2.5°	2229.8	2230.9	2216.3	2191.6	2164.6	2142.1	2113.9	2091.4	2075.7	2071.2
2255.7	5°	2245.6	2237.7	2196.1	2120.7	2030.7	1953.1	1866.4	1797.8	1752.8	1733.7
2277.1	7.5°	2269.2	2246.7	2155.6	2007.1	1834.9	1681.9	1526.7	1406.3	1329.8	1291.5
2297.3	10°	2289.4	2244.4	2088.1	1842.8	1579.5	1347.8	1138.5	993.4	912.4	874.1
2320.9	12.5°	2308.6	2243.3	2000.3	1648.2	1291.5	1008.0	813.4	741.4	718.9	711.0
2359.2	15°	2344.6	2246.7	1890.1	1425.4	1004.7	761.6	690.8	689.6	694.1	691.9
2417.7	17.5°	2394.1	2250.1	1765.2	1189.2	775.1	671.6	668.3	678.4	685.1	681.8
2490.8	20°	2458.2	2263.6	1632.4	955.2	666.0	649.1	657.0	666.0	671.6	666.0
2588.7	22.5°	2548.2	2287.2	1487.3	767.3	631.1	635.6	642.4	652.5	658.1	650.3
2713.6	25°	2658.4	2324.3	1344.4	667.1	614.3	619.9	630.0	641.3	648.0	640.1
2871.1	27.5°	2801.3	2383.9	1212.8	644.6	597.4	600.8	615.4	632.3	641.3	631.1
3095.0	30°	3008.3	2481.8	1099.2	654.8	587.3	579.4	599.6	623.3	633.4	624.4
3399.8	32.5°	3282.8	2620.2	1029.4	670.5	582.8	554.6	573.8	604.1	621.0	615.4
3798.1	35°	3642.8	2830.6	1002.4	688.5	579.4	528.8	542.3	574.9	604.1	609.8
4299.9	37.5°	4079.4	3123.1	1010.3	696.4	569.3	507.4	514.1	542.3	580.5	598.5
4864.6	40°	4575.5	3464.0	1055.3	688.5	558.0	489.4	490.5	511.9	545.6	572.6
5472.1	42.5°	5087.4	3862.2	1138.5	659.3	547.9	473.6	470.3	484.9	507.4	526.5
6078.5	45°	5574.5	4271.7	1220.7	618.8	535.5	457.9	450.0	455.6	460.1	468.0
6669.2	47.5°	5999.8	4559.7	1197.0	581.6	518.6	439.9	426.4	424.1	410.6	409.5
7196.8	50°	6293.4	4622.7	1063.2	544.5	493.9	419.6	398.3	384.8	361.1	349.9
7591.7	52.5°	6386.8	4374.1	868.5	507.4	453.4	392.6	362.3	340.9	311.6	301.5
7819.0	55°	6263.0	3887.0	694.1	462.4	397.1	356.6	322.9	294.8	271.1	258.8
7843.7	57.5°	5960.4	3267.1	549.0	409.5	337.5	316.1	282.4	254.3	234.0	221.6
7569.2	60°	5458.6	2594.3	434.3	346.5	288.0	272.3	237.4	219.4	201.4	186.8
6860.4	62.5°	4697.0	1851.8	340.9	274.5	240.8	222.8	202.5	189.0	167.6	147.4
5585.8	65°	3665.3	1132.9	263.3	201.4	193.5	184.5	172.1	159.8	133.9	113.6
3644.0	67.5°	2311.9	536.6	187.9	151.9	153.0	148.5	142.9	132.8	113.6	95.6
1632.4	70°	1018.2	259.9	123.8	115.9	113.6	113.6	118.1	114.8	96.8	79.9
567.0	72.5°	346.5	139.5	92.3	87.8	82.1	81.0	99.0	95.6	77.6	61.9
282.4	75°	181.1	93.4	67.5	63.0	49.5	59.6	78.8	74.3	55.1	40.5
186.8	77.5°	118.1	66.4	46.1	40.5	28.1	39.4	58.5	51.8	32.6	20.3
122.6	80°	74.3	43.9	27.0	19.1	13.5	21.4	31.5	22.5	12.4	4.5
72.0	82.5°	39.4	22.5	10.1	6.8	5.6	6.8	7.9	5.6	2.3	0.0
37.1	85°	15.8	7.9	3.4	2.3	1.1	0.0	2.3	1.1	0.0	0.0
6.8	87.5°	5.6	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>
2225.3
2079.1
1740.4
1297.2
875.3
708.8
690.8
680.6
664.9
649.1
639.0
631.1
623.3
615.4
609.8
603.0
581.6
534.4
472.5
408.4
351.0
300.4
258.8
219.4
183.4
144.0
110.3
93.4
76.5
58.5
37.1
18.0
3.4
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