

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: P944098

Luminaire Tested: **GALN-SB8D-850-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944098
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-SB8D-850-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 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: 59593 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

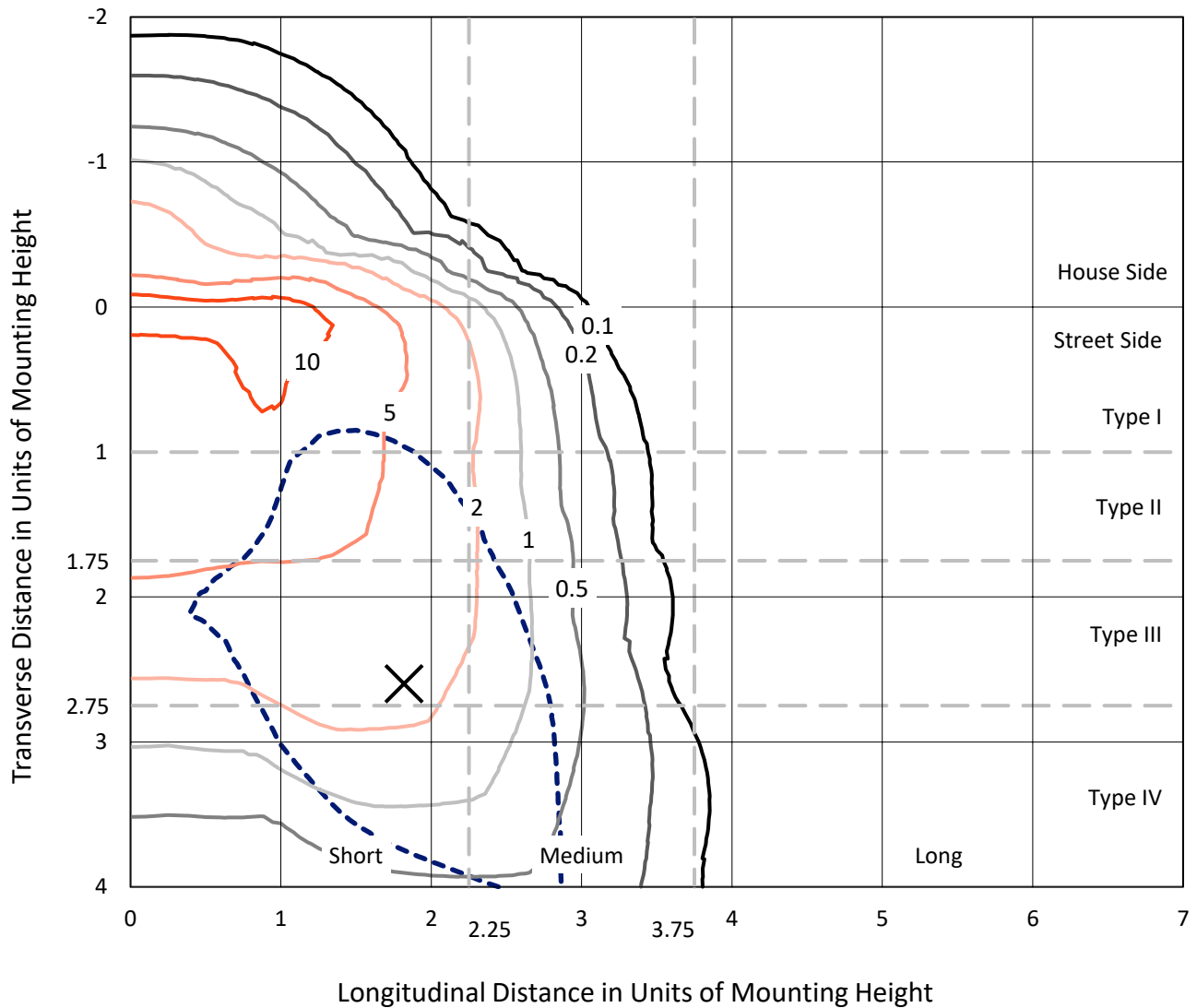
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

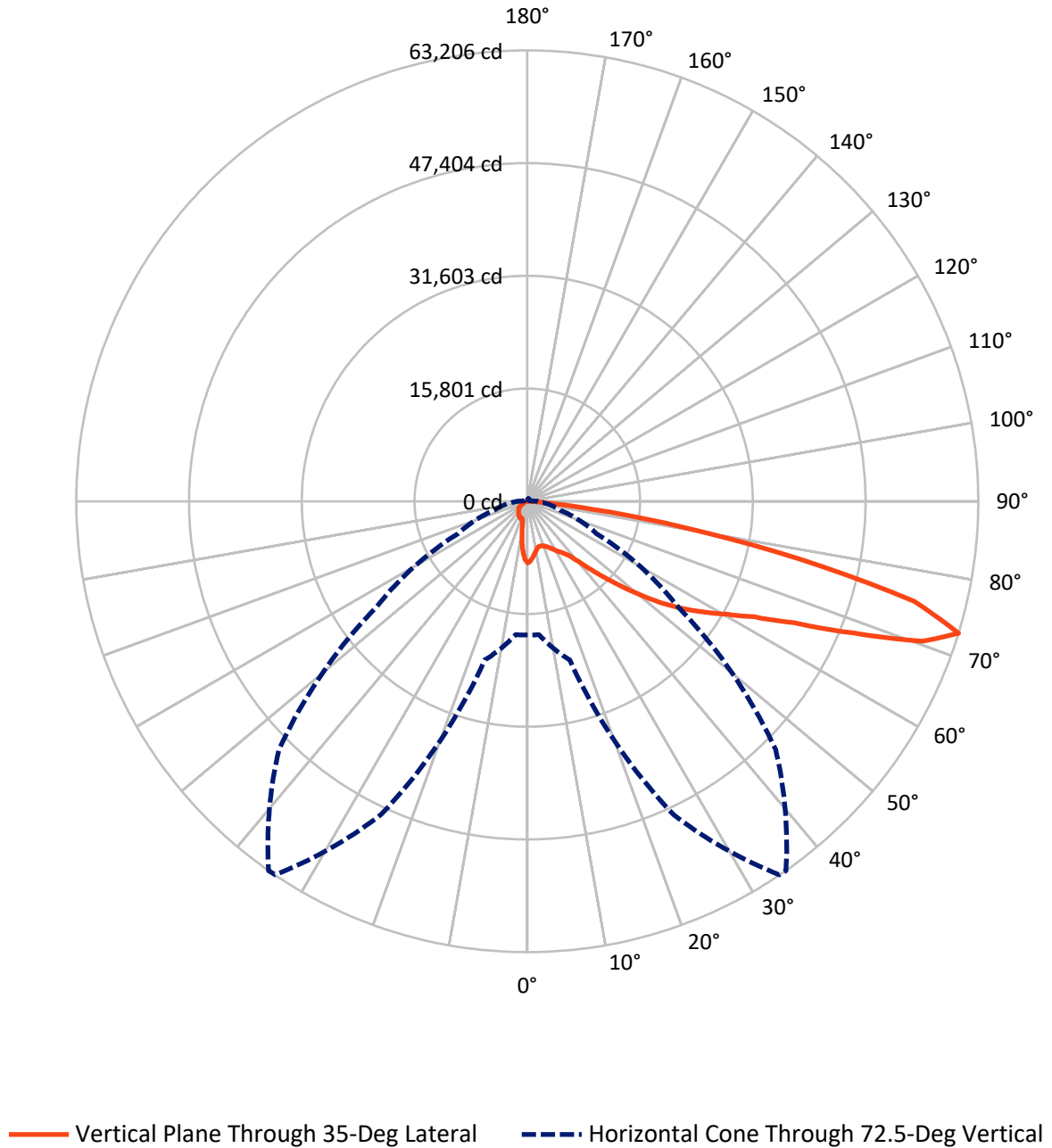
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 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	6706.9	0.0	6706.9
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	52886.1	0.0	52886.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	59593.0	0.0	59593.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	709.7	1.2
10°-20°	1660.3	2.8
20°-30°	2697.2	4.5
30°-40°	4500.2	7.6
40°-50°	8514.5	14.3
50°-60°	13529.5	22.7
60°-70°	16736.9	28.1
70°-80°	10403.8	17.5
80°-90°	840.8	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°	59593.0	100.0
0°-180°	59593.0	100.0

Coefficient of Utilization



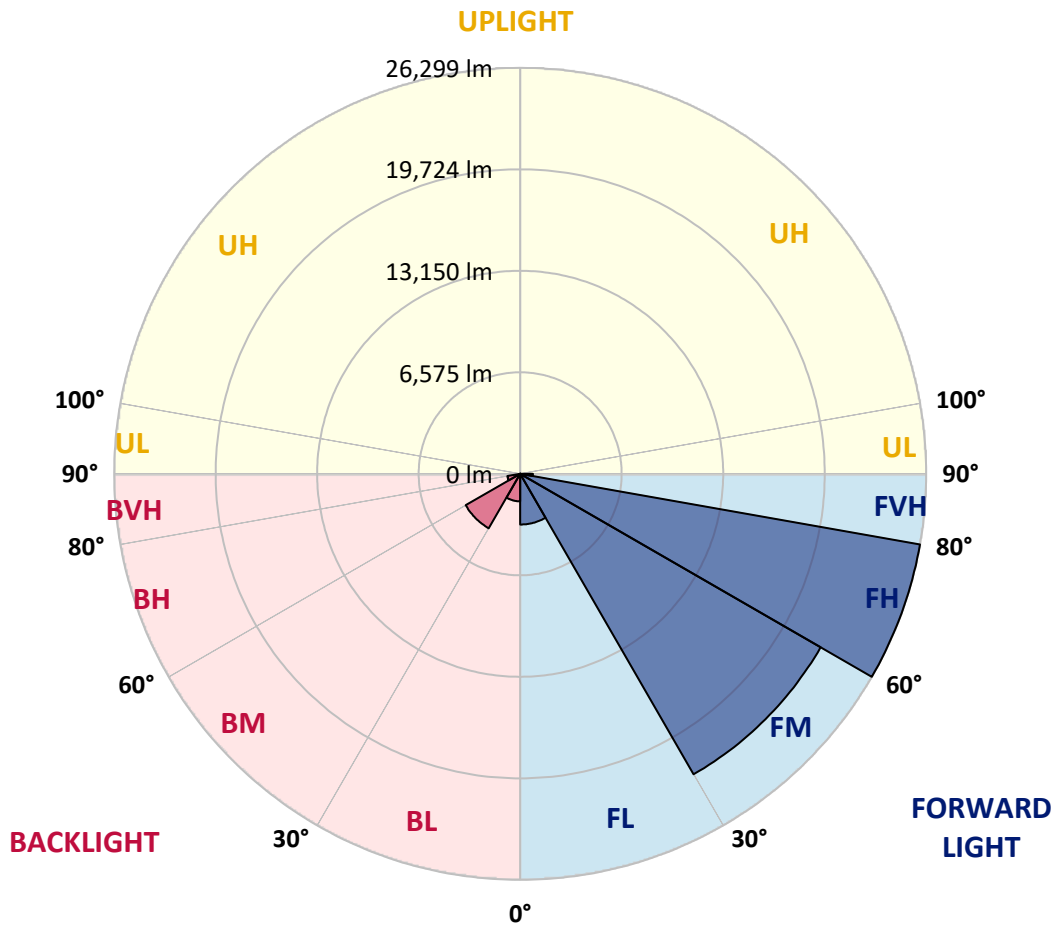
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3285.1	5.5			
FM (30°-60°)	22472.5	37.7			
FH (60°-80°)	26299.1	44.1			G5
FVH (80°-90°)	829.4	1.4			G5
BL (0°-30°)	1782.2	3.0	B3/2500		
BM (30°-60°)	4071.7	6.8	B3/5000		
BH (60°-80°)	841.6	1.4	B2/1000		G2/1000
BVH (80°-90°)	11.4	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	8637.0	8637.0	8637.0	8637.0	8637.0	8637.0	8637.0	8637.0	8637.0	8637.0
2.5°	8252.8	8322.6	8335.7	8357.6	8357.6	8383.8	8427.4	8488.6	8589.0	8641.4
5°	7606.5	7658.9	7724.4	7776.8	7877.2	7890.3	8060.6	8226.6	8458.0	8632.7
7.5°	6955.9	7017.0	7104.4	7231.0	7362.0	7401.3	7658.9	7938.4	8305.2	8632.7
10°	6497.4	6501.8	6580.4	6707.0	6916.6	6964.6	7279.0	7676.4	8134.9	8580.3
12.5°	6239.8	6270.4	6305.3	6401.4	6602.2	6632.8	6969.0	7436.2	7964.6	8549.7
15°	6239.8	6261.6	6283.5	6331.5	6493.1	6519.2	6816.2	7283.4	7877.2	8562.8
17.5°	6305.3	6340.2	6322.8	6379.5	6549.8	6567.3	6829.3	7239.7	7872.9	8645.8
20°	6462.5	6488.7	6453.8	6488.7	6659.0	6693.9	6964.6	7322.7	7947.1	8789.9
22.5°	6711.4	6724.5	6641.5	6667.7	6842.4	6886.0	7200.4	7558.5	8126.1	9021.3
25°	7025.8	7052.0	6925.3	6955.9	7121.8	7174.2	7536.7	7912.2	8410.0	9340.0
27.5°	7388.2	7401.3	7292.1	7287.8	7501.7	7576.0	7942.7	8348.8	8789.9	9741.8
30°	7803.0	7842.3	7737.5	7720.0	7990.8	8051.9	8414.3	8885.9	9348.8	10344.3
32.5°	8130.5	8161.1	8099.9	8143.6	8418.7	8466.7	8986.3	9645.7	10226.4	11200.2
35°	8602.1	8619.6	8479.8	8558.4	8872.8	8995.1	9768.0	10711.1	11331.2	12274.4
37.5°	10309.4	10309.4	9715.6	9326.9	9628.2	9737.4	10837.8	12051.7	12693.5	13715.3
40°	12671.7	12632.4	11763.5	10968.8	10929.5	11143.4	12361.7	13741.5	14453.3	15444.5
42.5°	15191.2	15130.1	13946.7	13160.8	13029.8	13104.0	14121.4	15824.4	16549.2	17553.5
45°	17426.9	17409.4	16326.5	15269.8	15034.0	15269.8	16317.8	18260.9	18780.5	19837.2
47.5°	19300.1	19300.1	18509.8	17819.9	17697.6	17837.3	19291.4	20963.8	20915.7	22269.4
50°	21457.2	21439.7	20688.7	20391.8	20518.4	20714.9	22714.8	23810.8	23125.2	24657.9
52.5°	22968.0	23072.8	22815.2	22767.2	23413.4	23754.0	26190.5	26596.6	25103.3	26924.1
55°	24164.5	24286.7	24583.6	24919.9	26164.3	26609.7	29557.1	29238.4	26758.2	28889.1
57.5°	25858.7	25684.0	26142.5	26806.2	28819.2	29356.3	32818.9	31731.7	28090.0	30482.8
60°	27915.3	27941.5	28020.1	28858.5	31469.7	32159.6	36032.7	34089.6	28945.8	31460.9
62.5°	30386.8	30426.1	30587.6	31875.8	35028.4	35679.0	39456.1	36019.6	29338.8	31185.9
65°	30216.5	30382.4	32185.8	36591.6	40438.6	41080.4	43451.5	37373.2	28745.0	28670.7
67.5°	27526.7	27797.4	30814.7	42224.5	48595.3	49311.4	48280.9	37639.6	26181.8	22295.6
70°	23998.5	24094.6	27723.2	47289.7	58040.1	58764.9	52603.8	34709.7	19867.8	12435.9
72.5°	18741.2	18763.0	23020.4	48464.3	63166.4	63205.7	49210.9	25767.0	10684.9	4777.0
75°	13387.8	13256.8	15418.3	39303.3	55573.0	56018.4	36892.9	12086.6	4082.7	2257.5
77.5°	7178.6	7322.7	8724.4	23308.6	38390.7	39150.4	20129.8	3484.5	2078.5	1537.0
80°	2218.2	2340.5	3576.2	10671.8	21745.4	22203.9	7462.4	1550.1	1449.7	1096.0
82.5°	698.6	724.8	1668.0	4484.4	9025.6	9235.2	2161.4	877.7	991.2	724.8
85°	200.9	205.2	742.3	1672.4	2231.3	2275.0	606.9	340.6	567.7	449.8
87.5°	21.8	69.9	279.5	279.5	196.5	192.1	65.5	74.2	161.6	56.8
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°
8637.0	0°	8637.0	8637.0	8637.0	8637.0	8637.0	8637.0	8637.0	8637.0	8637.0	8637.0
8676.3	2.5°	8654.5	8658.9	8602.1	8506.0	8401.2	8313.9	8204.7	8117.4	8056.3	8038.8
8754.9	5°	8715.6	8685.1	8523.5	8230.9	7881.6	7580.3	7244.1	6977.7	6803.1	6728.8
8837.9	7.5°	8807.3	8720.0	8366.3	7789.9	7121.8	6528.0	5925.4	5458.2	5161.3	5012.8
8916.5	10°	8885.9	8711.3	8104.3	7152.4	6130.6	5231.1	4418.9	3855.7	3541.3	3392.8
9008.2	12.5°	8960.1	8706.9	7763.7	6397.0	5012.8	3912.4	3157.0	2877.6	2790.2	2759.7
9156.6	15°	9099.9	8720.0	7335.8	5532.4	3899.3	2956.2	2681.1	2676.7	2694.2	2685.4
9383.7	17.5°	9292.0	8733.1	6851.1	4615.4	3008.5	2606.8	2593.7	2633.0	2659.2	2646.1
9667.5	20°	9540.9	8785.5	6335.9	3707.2	2585.0	2519.5	2550.1	2585.0	2606.8	2585.0
10047.4	22.5°	9890.2	8877.2	5772.6	2978.0	2449.6	2467.1	2493.3	2532.6	2554.4	2523.9
10532.1	25°	10318.1	9021.3	5218.0	2589.4	2384.1	2406.0	2445.3	2488.9	2515.1	2484.6
11143.4	27.5°	10872.7	9252.7	4707.1	2502.0	2318.6	2331.7	2388.5	2454.0	2488.9	2449.6
12012.4	30°	11676.1	9632.6	4266.1	2541.3	2279.3	2248.8	2327.4	2419.1	2458.4	2423.4
13195.7	32.5°	12741.6	10169.7	3995.4	2602.5	2261.9	2152.7	2226.9	2344.8	2410.3	2388.5
14741.5	35°	14138.9	10986.2	3890.6	2672.3	2248.8	2052.3	2104.7	2231.3	2344.8	2366.7
16688.9	37.5°	15833.1	12121.5	3921.2	2702.9	2209.5	1969.3	1995.5	2104.7	2253.1	2323.0
18880.9	40°	17758.7	13444.6	4095.8	2672.3	2165.8	1899.4	1903.8	1986.8	2117.8	2222.6
21238.9	42.5°	19745.5	14990.3	4418.9	2558.8	2126.5	1838.3	1825.2	1882.0	1969.3	2043.5
23592.4	45°	21636.2	16579.8	4737.7	2401.6	2078.5	1777.2	1746.6	1768.5	1785.9	1816.5
25884.9	47.5°	23286.8	17697.6	4646.0	2257.5	2013.0	1707.3	1654.9	1646.2	1593.8	1589.4
27932.8	50°	24426.4	17942.1	4126.4	2113.4	1916.9	1628.7	1545.8	1493.4	1401.7	1358.0
29465.4	52.5°	24788.9	16977.1	3371.0	1969.3	1759.7	1523.9	1406.0	1323.1	1209.5	1170.2
30347.5	55°	24308.5	15086.4	2694.2	1794.6	1541.4	1384.2	1253.2	1144.0	1052.3	1004.3
30443.5	57.5°	23133.9	12680.4	2130.9	1589.4	1310.0	1227.0	1096.0	986.8	908.2	860.2
29378.1	60°	21186.5	10069.3	1685.5	1344.9	1117.8	1056.7	921.3	851.5	781.6	724.8
26627.2	62.5°	18230.3	7187.3	1323.1	1065.4	934.4	864.6	786.0	733.6	650.6	572.0
21679.9	65°	14226.2	4397.1	1021.8	781.6	751.0	716.1	668.1	620.0	519.6	441.0
14143.2	67.5°	8973.2	2082.8	729.2	589.5	593.8	576.4	554.6	515.3	441.0	371.2
6335.9	70°	3951.7	1008.7	480.3	449.8	441.0	441.0	458.5	445.4	375.5	310.0
2200.7	72.5°	1344.9	541.5	358.1	340.6	318.8	314.4	384.3	371.2	301.3	240.2
1096.0	75°	703.0	362.4	262.0	244.5	192.1	231.4	305.7	288.2	214.0	157.2
724.8	77.5°	458.5	257.6	179.0	157.2	109.2	152.8	227.1	200.9	126.6	78.6
476.0	80°	288.2	170.3	104.8	74.2	52.4	83.0	122.3	87.3	48.0	17.5
279.5	82.5°	152.8	87.3	39.3	26.2	21.8	26.2	30.6	21.8	8.7	0.0
144.1	85°	61.1	30.6	13.1	8.7	4.4	0.0	8.7	4.4	0.0	0.0
26.2	87.5°	21.8	4.4	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>
8637.0
8069.4
6755.0
5034.6
3397.2
2750.9
2681.1
2641.8
2580.6
2519.5
2480.2
2449.6
2419.1
2388.5
2366.7
2340.5
2257.5
2074.1
1833.9
1585.1
1362.4
1165.9
1004.3
851.5
711.7
558.9
427.9
362.4
296.9
227.1
144.1
69.9
13.1
0.0
0.0
0.0
0.0

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