

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: P956126

Luminaire Tested: **GALN-SB8D-840-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956126
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8D-840-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60628 lumens
Efficiency: N/A
Efficacy: 103.7 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

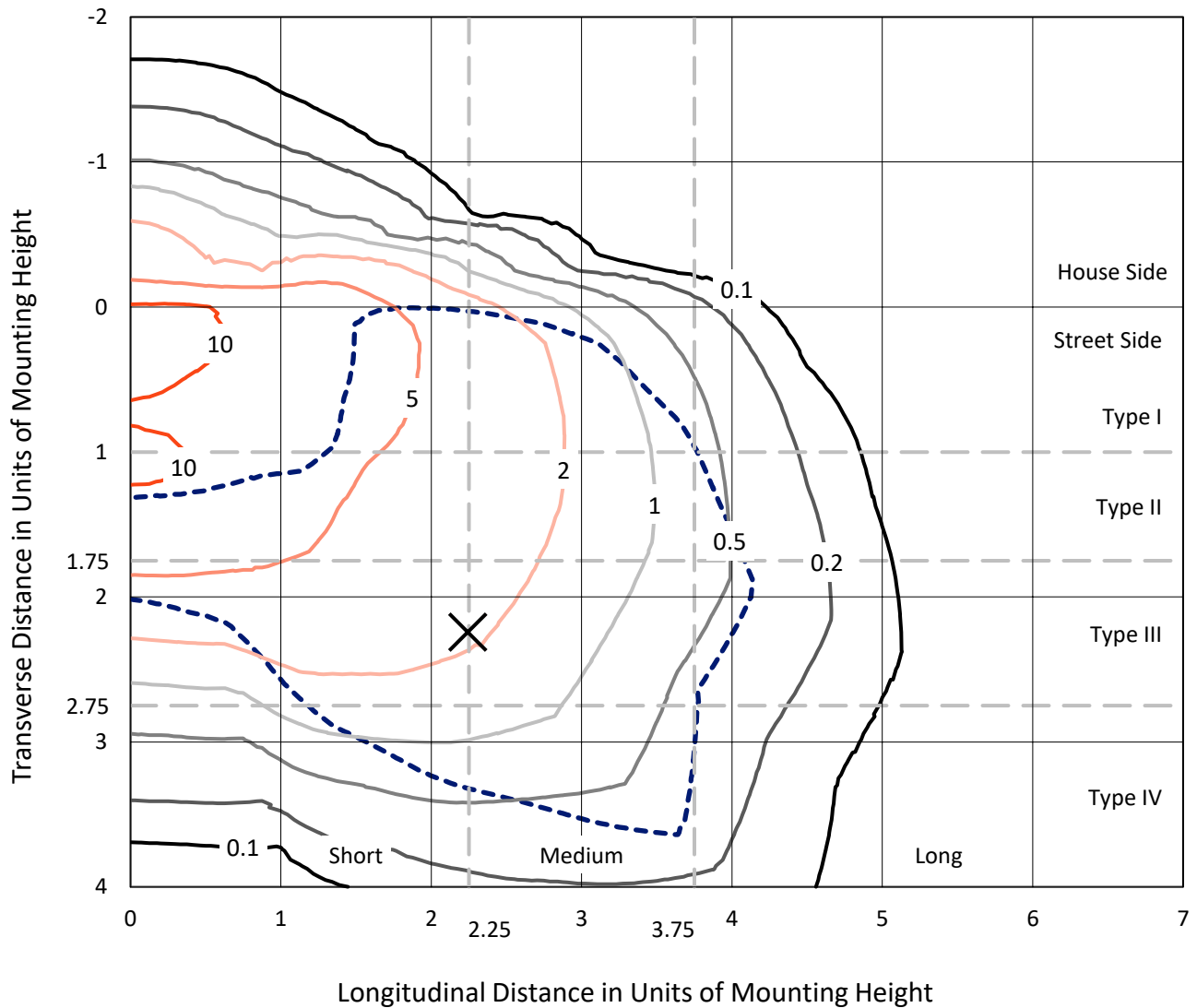
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

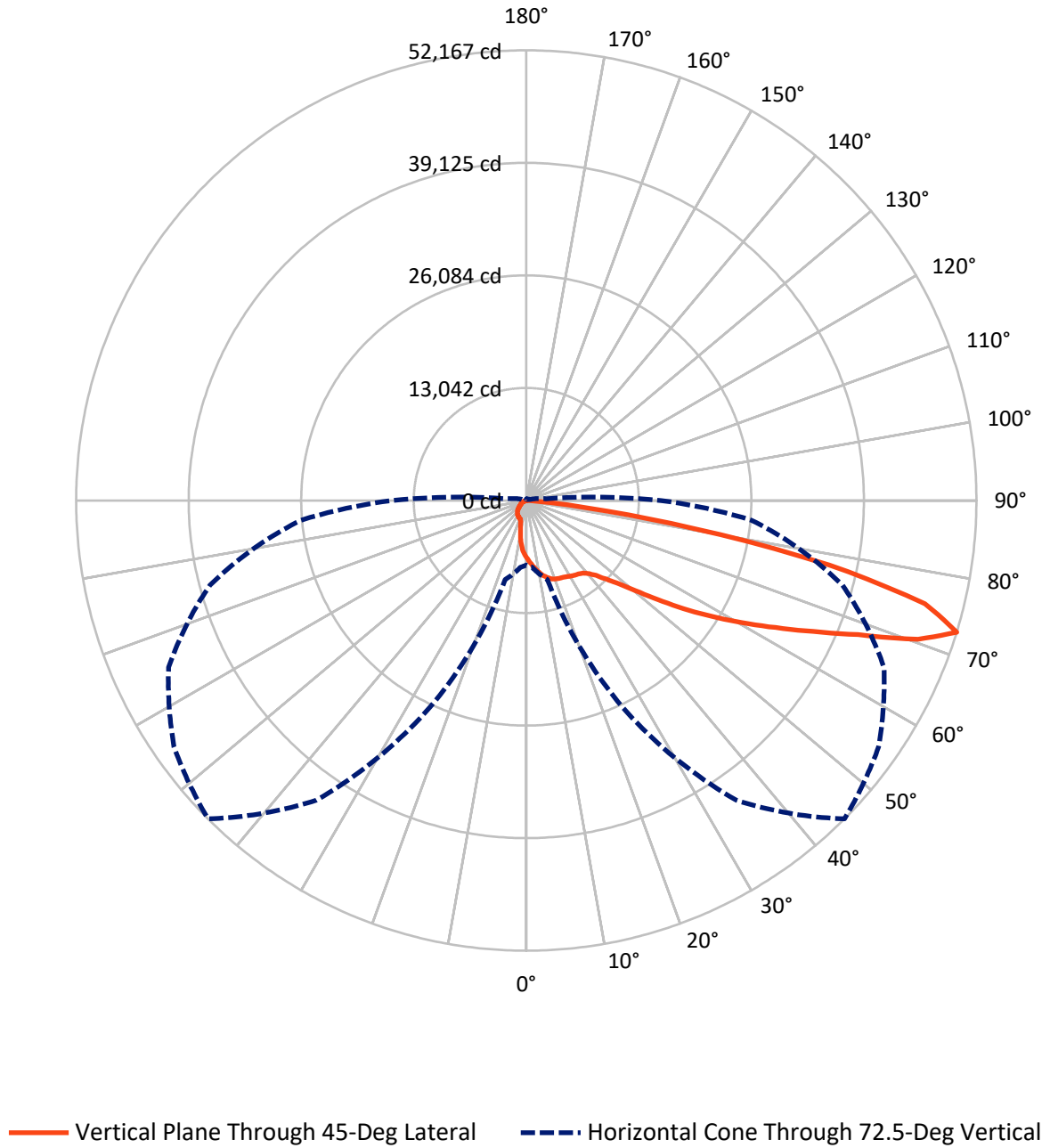
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 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	6370.3	0.0	6370.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	54257.7	0.0	54257.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	60628.0	0.0	60628.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	625.8	1.0
10°-20°	1829.0	3.0
20°-30°	3003.4	5.0
30°-40°	4259.6	7.0
40°-50°	7040.6	11.6
50°-60°	12647.7	20.9
60°-70°	17562.0	29.0
70°-80°	12738.9	21.0
80°-90°	921.0	1.5
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°	60628.0	100.0
0°-180°	60628.0	100.0

Coefficient of Utilization



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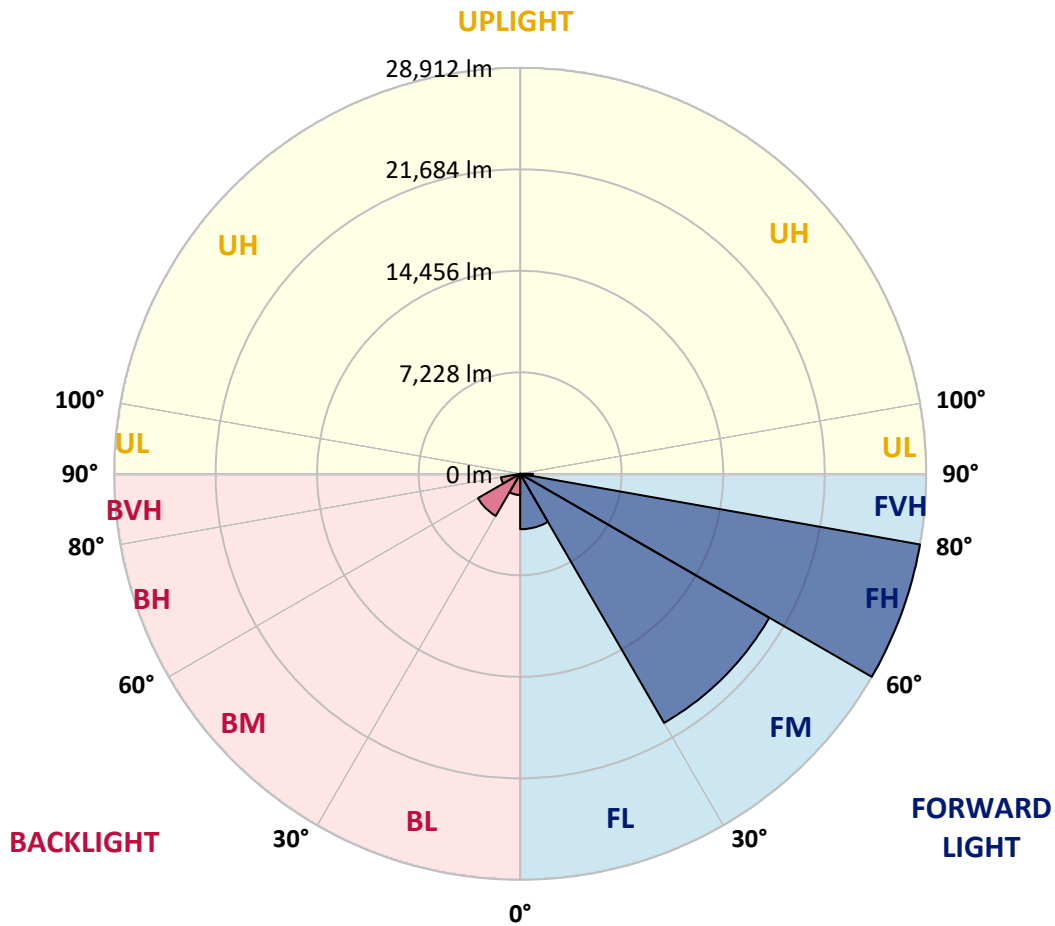
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3949.3	6.5			
FM (30°-60°)	20483.4	33.8			
FH (60°-80°)	28911.8	47.7			G5
FVH (80°-90°)	913.2	1.5			G5
BL (0°-30°)	1508.9	2.5	B3/2500		
BM (30°-60°)	3464.5	5.7	B3/5000		
BH (60°-80°)	1389.2	2.3	B3/2500		G3/2500
BVH (80°-90°)	7.7	0.0			G0/10
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°	35°	45°	46°	55°	65°	75°
0°	6641.9	6641.9	6641.9	6641.9	6641.9	6641.9	6641.9	6641.9	6641.9	6641.9
2.5°	7254.4	7266.8	7258.5	7208.9	7126.1	7080.6	7055.8	6973.0	6919.2	6824.0
5°	7920.7	7970.3	7941.3	7842.0	7684.8	7573.0	7539.9	7370.3	7217.1	7039.2
7.5°	8628.3	8653.1	8599.3	8471.0	8260.0	8069.6	8040.7	7804.8	7560.6	7287.5
10°	9240.8	9269.7	9187.0	9000.7	8760.7	8524.8	8483.5	8222.7	7933.1	7597.9
12.5°	9753.9	9782.9	9675.3	9451.8	9187.0	8942.8	8901.4	8628.3	8309.6	7937.2
15°	10142.9	10196.7	10051.9	9811.8	9526.3	9282.1	9261.5	8992.5	8682.1	8268.3
17.5°	10370.5	10424.3	10287.7	9998.1	9753.9	9547.0	9522.2	9298.7	9009.0	8611.7
20°	10407.8	10457.4	10312.6	10060.1	9857.4	9691.8	9679.4	9518.0	9307.0	8926.3
22.5°	10296.0	10358.1	10225.7	10022.9	9882.2	9795.3	9778.7	9687.7	9567.7	9244.9
25°	10180.1	10229.8	10130.5	9952.5	9878.1	9869.8	9882.2	9865.6	9840.8	9567.7
27.5°	10171.9	10225.7	10113.9	9944.3	9902.9	9989.8	10002.2	10080.8	10101.5	9861.5
30°	10242.2	10279.5	10171.9	9993.9	9973.2	10171.9	10176.0	10316.7	10349.8	10109.8
32.5°	10395.3	10436.7	10329.1	10068.4	10039.4	10316.7	10329.1	10515.3	10569.1	10374.6
35°	10755.4	10805.0	10680.9	10275.3	10171.9	10453.3	10490.5	10709.8	10817.4	10656.1
37.5°	11653.4	11508.5	11338.9	10693.3	10474.0	10668.5	10730.5	10987.1	11177.5	10991.3
40°	13883.9	13428.7	12899.0	11405.1	11003.7	11127.8	11177.5	11434.0	11694.8	11512.7
42.5°	17231.8	16693.8	15841.3	13043.8	11802.4	11864.4	11901.7	12125.1	12493.4	12348.6
45°	20215.5	20021.0	19151.9	15841.3	13296.3	12990.0	13035.6	13151.4	13693.5	13639.7
47.5°	22508.1	22396.3	21725.9	19052.6	15820.6	14368.1	14496.4	14550.2	15332.3	15522.7
50°	24271.0	24229.6	23629.5	21908.0	19118.8	16400.0	16445.5	16329.6	17500.8	17972.5
52.5°	25934.5	26075.3	25632.5	24560.6	22640.5	19060.9	19052.6	18506.4	20087.2	20799.0
55°	27436.7	27486.4	27531.9	27267.1	26182.8	22090.1	22011.5	21117.6	23087.4	23824.0
57.5°	28847.9	28868.6	29274.1	29816.2	29870.0	25342.8	25197.9	24126.1	26364.9	26890.5
60°	29795.6	29890.7	30747.4	32253.7	32911.7	28698.9	28620.3	27527.8	29700.4	29944.5
62.5°	28429.9	29009.3	31169.5	34157.3	35783.6	32419.2	32382.0	31355.7	33209.6	33011.0
65°	23012.9	23993.7	27792.6	35444.3	38601.8	36574.0	36627.8	35535.3	36814.1	36168.5
67.5°	16097.9	17132.4	21626.6	35547.8	41751.0	41453.1	41763.4	40050.2	40642.0	39193.6
70°	11132.0	11665.8	14591.5	33321.4	44205.0	48173.6	48165.3	45595.5	44449.2	40571.6
72.5°	7486.1	7763.4	9476.6	26435.3	42400.7	52167.1	51927.0	49833.1	45732.0	37943.8
75°	3157.5	3360.3	4386.6	14856.4	33544.8	47726.7	47077.0	44039.5	40633.7	29878.3
77.5°	1001.5	1088.4	1729.8	5317.7	18477.4	35874.7	35187.7	27503.0	27234.0	14988.8
80°	475.9	554.5	972.5	2135.3	7270.9	19512.0	19416.8	12476.9	11715.4	4047.2
82.5°	206.9	244.2	538.0	1142.2	3252.7	6960.6	7101.3	4245.9	3513.4	1535.3
85°	66.2	86.9	248.3	525.6	1373.9	1729.8	1709.1	1009.7	1415.3	835.9
87.5°	0.0	0.0	82.8	120.0	140.7	99.3	111.7	86.9	393.1	231.7
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°
6641.9	0°	6641.9	6641.9	6641.9	6641.9	6641.9	6641.9	6641.9	6641.9	6641.9	6641.9
6724.7	2.5°	6675.0	6608.8	6492.9	6385.4	6290.2	6195.0	6137.1	6054.3	6046.0	6046.0
6832.3	5°	6720.6	6613.0	6406.0	6186.7	5934.3	5694.3	5454.2	5222.5	5148.0	5094.2
7006.1	7.5°	6853.0	6683.3	6356.4	5938.4	5458.4	4932.8	4564.5	4167.2	4014.1	3931.4
7237.8	10°	7043.3	6811.6	6315.0	5582.5	4804.5	4088.6	3563.1	3132.7	2967.1	2896.8
7490.3	12.5°	7254.4	6968.8	6240.5	5139.7	4088.6	3232.0	2718.8	2520.2	2495.4	2495.4
7792.4	15°	7506.8	7159.2	6112.2	4618.3	3339.6	2557.5	2375.4	2383.6	2408.5	2425.0
8086.2	17.5°	7767.5	7362.0	5909.5	4034.8	2677.5	2300.9	2305.0	2317.4	2338.1	2354.7
8404.8	20°	8048.9	7564.8	5640.5	3414.1	2296.7	2226.4	2238.8	2251.2	2267.8	2276.0
8702.8	22.5°	8351.0	7755.1	5321.8	2805.7	2168.5	2164.3	2168.5	2180.9	2201.6	2201.6
9050.4	25°	8673.8	7966.2	4957.6	2363.0	2102.2	2102.2	2110.5	2118.8	2135.3	2135.3
9385.6	27.5°	9004.9	8160.7	4572.8	2131.2	2044.3	2040.2	2040.2	2052.6	2060.9	2065.0
9716.7	30°	9369.0	8388.3	4187.9	2081.6	1998.8	1978.1	1965.7	1974.0	1982.2	1986.4
10064.3	32.5°	9741.5	8607.6	3844.5	2102.2	1953.3	1916.0	1874.6	1866.4	1866.4	1882.9
10424.3	35°	10155.3	8847.6	3579.6	2172.6	1928.4	1825.0	1758.8	1721.5	1725.7	1750.5
10854.7	37.5°	10651.9	9137.3	3385.1	2234.7	1911.9	1721.5	1613.9	1568.4	1539.4	1568.4
11446.5	40°	11301.6	9563.5	3244.4	2284.3	1891.2	1601.5	1456.7	1382.2	1328.4	1344.9
12365.2	42.5°	12257.6	10233.9	3190.6	2288.5	1845.7	1460.8	1295.3	1196.0	1117.3	1121.5
13747.3	45°	13598.4	11293.3	3467.9	2234.7	1746.4	1307.7	1125.6	993.2	943.5	931.1
15812.3	47.5°	15435.8	12836.9	4109.3	2122.9	1601.5	1158.7	960.1	848.3	811.1	790.4
18522.9	50°	17898.0	14819.2	4821.1	1998.8	1456.7	1018.0	823.5	753.2	728.3	707.6
21738.3	52.5°	20753.4	16830.4	5404.6	1874.6	1311.8	893.9	736.6	695.2	674.5	658.0
24842.0	55°	23373.0	18216.7	5371.5	1742.2	1171.1	794.5	674.5	649.7	624.9	608.3
27515.4	57.5°	25003.4	18411.2	4428.0	1597.4	1009.7	715.9	616.6	600.0	571.1	550.4
29828.7	60°	25752.5	17302.1	3103.7	1407.0	848.3	641.4	554.5	546.3	509.0	480.0
32017.8	62.5°	25889.0	15241.3	2069.1	1171.1	707.6	571.1	492.5	480.0	430.4	380.7
33797.3	65°	25334.5	12294.8	1431.8	914.6	604.2	496.6	422.1	397.3	343.5	293.8
34219.4	67.5°	23579.9	8632.4	997.3	658.0	513.1	393.1	335.2	326.9	285.5	244.2
32067.5	70°	20364.4	4920.4	666.3	492.5	405.6	269.0	264.8	273.1	231.7	198.6
26199.4	72.5°	15613.7	2251.2	413.8	360.0	277.3	182.1	211.1	215.2	177.9	149.0
16346.2	75°	9191.1	964.2	260.7	231.7	140.7	120.0	153.1	157.3	120.0	95.2
5975.7	77.5°	3128.5	364.2	165.5	136.6	70.4	66.2	99.3	99.3	66.2	37.2
1200.1	80°	711.8	136.6	82.8	53.8	33.1	29.0	33.1	29.0	16.6	4.1
368.3	82.5°	202.8	53.8	33.1	20.7	12.4	12.4	4.1	0.0	0.0	0.0
128.3	85°	57.9	24.8	8.3	8.3	0.0	0.0	0.0	0.0	0.0	0.0
45.5	87.5°	24.8	4.1	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>
6641.9
6066.7
5119.0
3943.8
2896.8
2495.4
2425.0
2354.7
2280.2
2209.8
2139.5
2069.1
1994.6
1895.3
1762.9
1560.1
1336.7
1104.9
914.6
778.0
703.5
653.8
600.0
546.3
471.8
355.9
277.3
231.7
182.1
132.4
82.8
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