

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: P956000

Luminaire Tested: **GALN-SB8D-740-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956000
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-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 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: 67058 lumens
Efficiency: N/A
Efficacy: 114.6 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

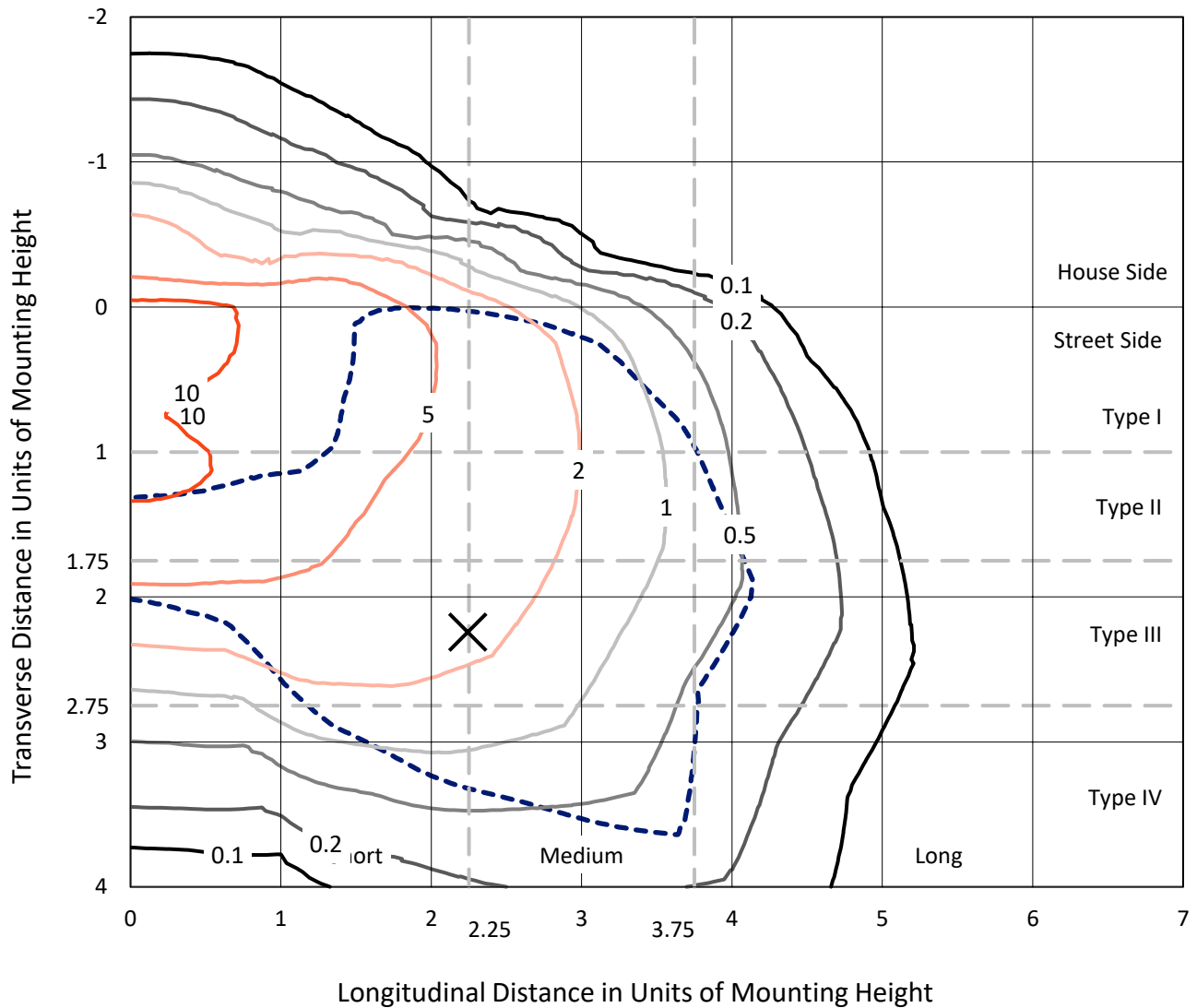
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

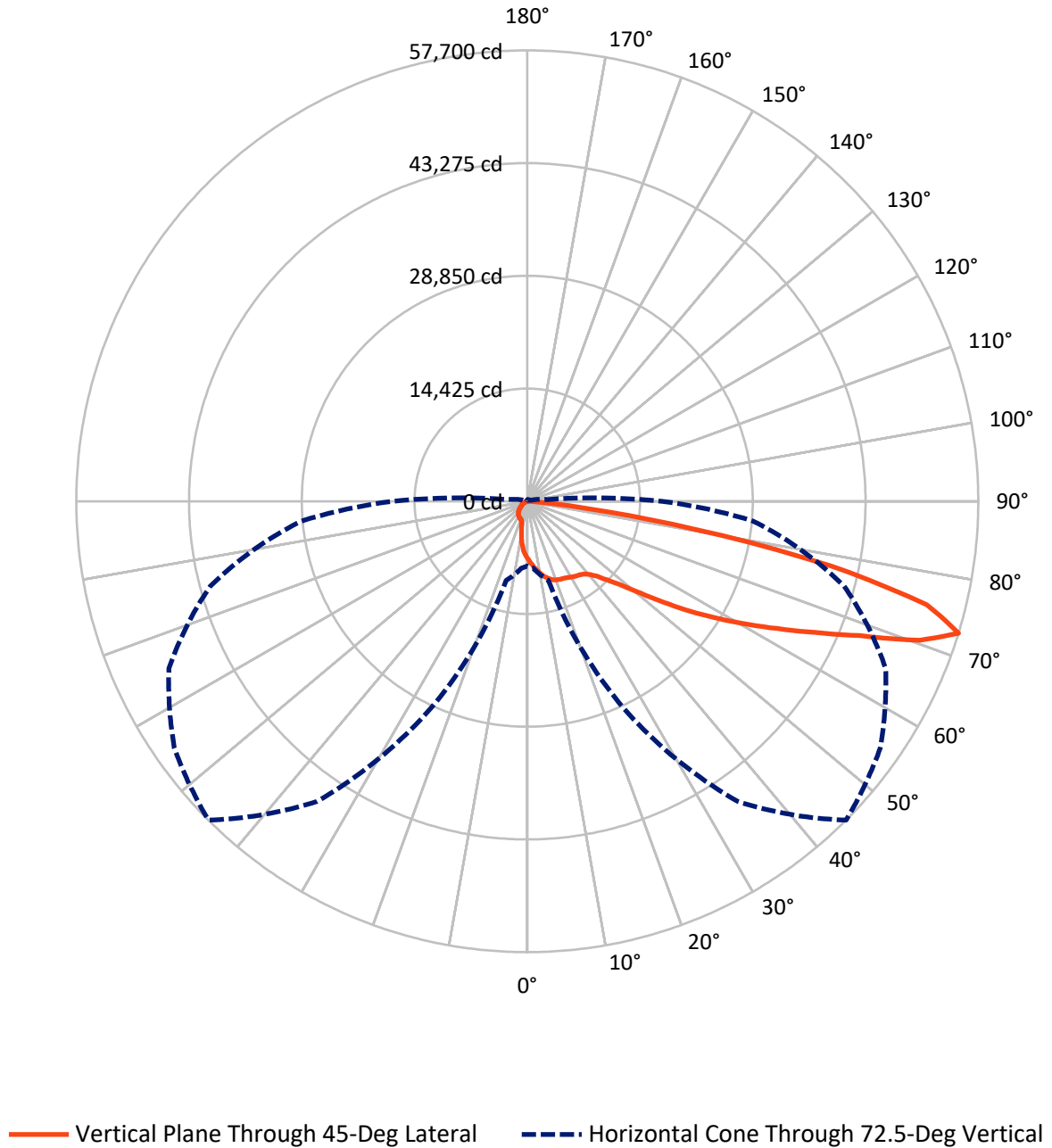
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 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	7045.9	0.0	7045.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	60012.1	0.0	60012.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	67058.0	0.0	67058.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	692.2	1.0
10°-20°	2022.9	3.0
20°-30°	3322.0	5.0
30°-40°	4711.3	7.0
40°-50°	7787.3	11.6
50°-60°	13989.1	20.9
60°-70°	19424.6	29.0
70°-80°	14090.0	21.0
80°-90°	1018.6	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°	67058.0	100.0
0°-180°	67058.0	100.0

Coefficient of Utilization



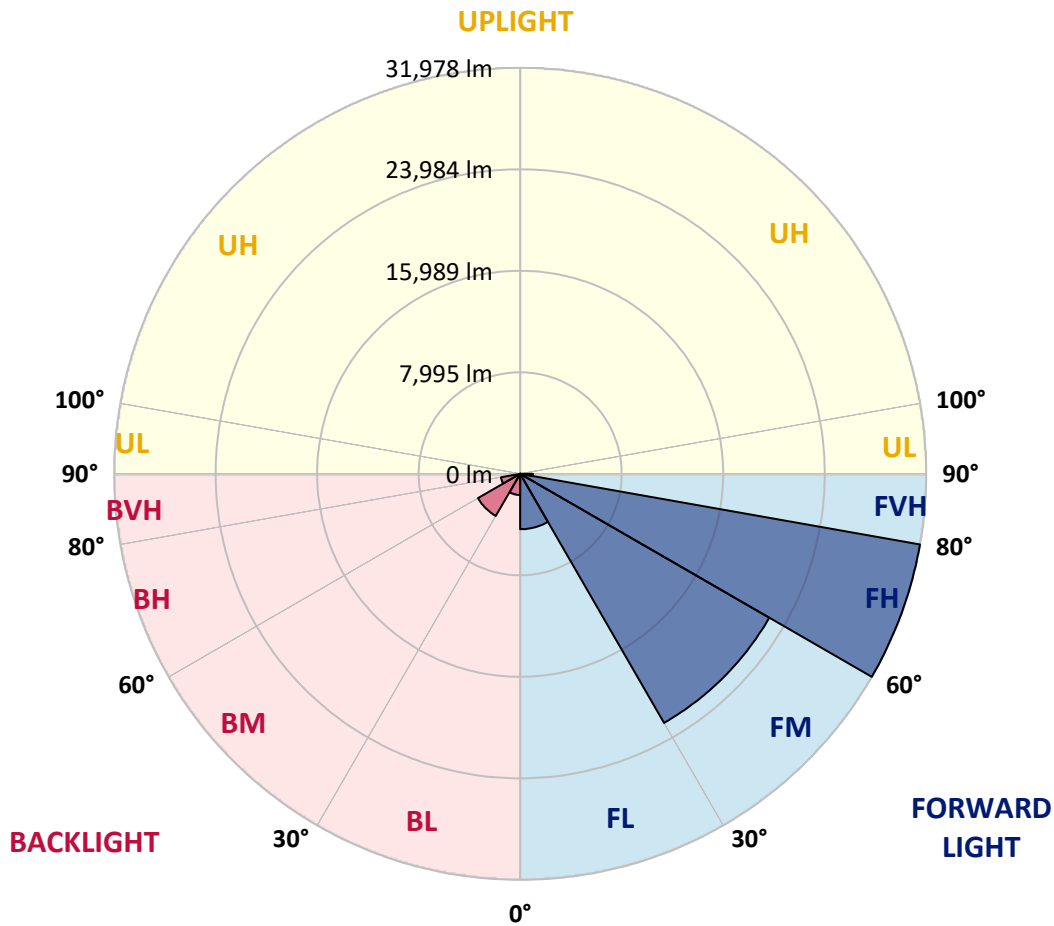
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4368.2	6.5			
FM (30°-60°)	22655.8	33.8			
FH (60°-80°)	31978.1	47.7			G5
FVH (80°-90°)	1010.1	1.5			G5
BL (0°-30°)	1668.9	2.5	B3/2500		
BM (30°-60°)	3832.0	5.7	B3/5000		
BH (60°-80°)	1536.5	2.3	B3/2500		G3/2500
BVH (80°-90°)	8.6	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°	7346.3	7346.3	7346.3	7346.3	7346.3	7346.3	7346.3	7346.3	7346.3	7346.3
2.5°	8023.8	8037.5	8028.3	7973.4	7881.9	7831.5	7804.1	7712.5	7653.0	7547.7
5°	8760.7	8815.6	8783.6	8673.7	8499.8	8376.2	8339.6	8151.9	7982.6	7785.8
7.5°	9543.4	9570.8	9511.3	9369.5	9136.0	8925.5	8893.4	8632.5	8362.5	8060.4
10°	10220.8	10252.8	10161.3	9955.3	9689.9	9429.0	9383.2	9094.8	8774.4	8403.7
12.5°	10788.4	10820.4	10701.4	10454.2	10161.3	9891.2	9845.5	9543.4	9190.9	8779.0
15°	11218.6	11278.1	11117.9	10852.5	10536.6	10266.6	10243.7	9946.2	9602.9	9145.2
17.5°	11470.4	11529.9	11378.8	11058.4	10788.4	10559.5	10532.1	10284.9	9964.5	9525.1
20°	11511.6	11566.5	11406.3	11127.1	10902.8	10719.7	10706.0	10527.5	10294.0	9872.9
22.5°	11388.0	11456.6	11310.2	11085.9	10930.3	10834.1	10815.8	10715.1	10582.4	10225.4
25°	11259.8	11314.7	11204.9	11008.1	10925.7	10916.5	10930.3	10912.0	10884.5	10582.4
27.5°	11250.7	11310.2	11186.6	10998.9	10953.2	11049.3	11063.0	11150.0	11172.9	10907.4
30°	11328.5	11369.7	11250.7	11053.8	11031.0	11250.7	11255.2	11410.9	11447.5	11182.0
32.5°	11497.8	11543.6	11424.6	11136.2	11104.2	11410.9	11424.6	11630.6	11690.1	11474.9
35°	11896.0	11951.0	11813.7	11365.1	11250.7	11561.9	11603.1	11845.7	11964.7	11786.2
37.5°	12889.3	12729.1	12541.4	11827.4	11584.8	11799.9	11868.6	12152.4	12362.9	12156.9
40°	15356.4	14852.9	14267.0	12614.7	12170.7	12308.0	12362.9	12646.7	12935.1	12733.7
42.5°	19059.3	18464.3	17521.4	14427.2	13054.1	13122.7	13163.9	13411.1	13818.5	13658.3
45°	22359.4	22144.3	21183.1	17521.4	14706.4	14367.7	14418.1	14546.2	15145.8	15086.3
47.5°	24895.2	24771.6	24030.1	21073.3	17498.5	15891.9	16033.8	16093.3	16958.4	17168.9
50°	26845.1	26799.3	26135.6	24231.5	21146.5	18139.3	18189.6	18061.5	19356.8	19878.6
52.5°	28685.1	28840.7	28350.9	27165.5	25041.7	21082.4	21073.3	20469.1	22217.5	23004.8
55°	30346.6	30401.5	30451.9	30158.9	28959.7	24432.9	24345.9	23357.3	25536.0	26350.7
57.5°	31907.4	31930.3	32378.9	32978.5	33038.0	28030.5	27870.3	26684.9	29161.1	29742.4
60°	32955.6	33060.8	34008.3	35674.4	36402.2	31742.6	31655.7	30447.3	32850.3	33120.4
62.5°	31445.1	32085.9	34475.2	37779.9	39578.7	35857.5	35816.3	34681.2	36731.7	36512.0
65°	25453.6	26538.4	30740.2	39203.4	42695.8	40453.0	40512.5	39304.1	40718.4	40004.4
67.5°	17805.2	18949.5	23920.3	39317.8	46179.0	45849.4	46192.7	44297.8	44952.3	43350.3
70°	12312.6	12903.0	16139.1	36855.3	48893.3	53282.8	53273.6	50431.2	49163.3	44874.5
72.5°	8280.1	8586.8	10481.7	29238.9	46897.6	57699.7	57434.2	55118.2	50582.2	41968.0
75°	3492.4	3716.7	4851.8	16432.0	37102.5	52788.4	52069.8	48710.2	44943.2	33047.1
77.5°	1107.7	1203.8	1913.3	5881.7	20437.0	39679.4	38919.6	30419.8	30122.3	16578.5
80°	526.4	613.3	1075.6	2361.8	8042.1	21581.3	21476.0	13800.1	12957.9	4476.5
82.5°	228.9	270.1	595.0	1263.3	3597.7	7698.8	7854.4	4696.2	3886.0	1698.1
85°	73.2	96.1	274.6	581.3	1519.6	1913.3	1890.4	1116.8	1565.4	924.6
87.5°	0.0	0.0	91.5	132.7	155.6	109.9	123.6	96.1	434.8	256.3
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°
7346.3	0°	7346.3	7346.3	7346.3	7346.3	7346.3	7346.3	7346.3	7346.3	7346.3	7346.3
7437.9	2.5°	7383.0	7309.7	7181.6	7062.6	6957.3	6852.0	6787.9	6696.4	6687.2	6687.2
7556.9	5°	7433.3	7314.3	7085.4	6842.9	6563.7	6298.2	6032.7	5776.4	5694.0	5634.5
7749.1	7.5°	7579.8	7392.1	7030.5	6568.2	6037.3	5456.0	5048.6	4609.2	4439.8	4348.3
8005.5	10°	7790.3	7534.0	6984.8	6174.6	5314.1	4522.2	3940.9	3464.9	3281.8	3204.0
8284.7	12.5°	8023.8	7707.9	6902.4	5684.8	4522.2	3574.8	3007.2	2787.5	2760.0	2760.0
8618.8	15°	8303.0	7918.5	6760.5	5108.1	3693.8	2828.7	2627.3	2636.4	2663.9	2682.2
8943.8	17.5°	8591.3	8142.8	6536.2	4462.7	2961.4	2544.9	2549.5	2563.2	2586.1	2604.4
9296.2	20°	8902.6	8367.1	6238.7	3776.2	2540.3	2462.5	2476.2	2490.0	2508.3	2517.4
9625.8	22.5°	9236.7	8577.6	5886.2	3103.3	2398.4	2393.9	2398.4	2412.2	2435.1	2435.1
10010.3	25°	9593.7	8811.0	5483.4	2613.6	2325.2	2325.2	2334.4	2343.5	2361.8	2361.8
10381.0	27.5°	9959.9	9026.2	5057.8	2357.2	2261.1	2256.5	2256.5	2270.3	2279.4	2284.0
10747.2	30°	10362.7	9277.9	4632.1	2302.3	2210.8	2187.9	2174.2	2183.3	2192.5	2197.0
11131.7	32.5°	10774.6	9520.5	4252.2	2325.2	2160.4	2119.2	2073.5	2064.3	2064.3	2082.6
11529.9	35°	11232.4	9786.0	3959.2	2403.0	2133.0	2018.5	1945.3	1904.1	1908.7	1936.1
12005.9	37.5°	11781.6	10106.4	3744.1	2471.7	2114.6	1904.1	1785.1	1734.7	1702.7	1734.7
12660.4	40°	12500.2	10577.8	3588.5	2526.6	2091.8	1771.4	1611.2	1528.8	1469.3	1487.6
13676.6	42.5°	13557.6	11319.3	3529.0	2531.2	2041.4	1615.7	1432.7	1322.8	1235.8	1240.4
15205.3	45°	15040.6	12491.1	3835.7	2471.7	1931.6	1446.4	1245.0	1098.5	1043.6	1029.9
17489.3	47.5°	17072.8	14198.4	4545.1	2348.1	1771.4	1281.6	1061.9	938.3	897.1	874.2
20487.4	50°	19796.2	16390.8	5332.4	2210.8	1611.2	1126.0	910.9	833.0	805.6	782.7
24043.8	52.5°	22954.5	18615.3	5977.8	2073.5	1451.0	988.7	814.7	769.0	746.1	727.8
27476.7	55°	25851.8	20148.7	5941.2	1927.0	1295.3	878.8	746.1	718.6	691.2	672.8
30433.6	57.5°	27655.2	20363.8	4897.6	1766.8	1116.8	791.8	682.0	663.7	631.6	608.8
32992.2	60°	28483.7	19137.1	3432.9	1556.2	938.3	709.5	613.3	604.2	563.0	531.0
35413.5	62.5°	28634.7	16857.7	2288.6	1295.3	782.7	631.6	544.7	531.0	476.0	421.1
37381.7	65°	28021.4	13598.8	1583.7	1011.6	668.3	549.3	466.9	439.4	379.9	325.0
37848.6	67.5°	26080.7	9548.0	1103.1	727.8	567.6	434.8	370.8	361.6	315.8	270.1
35468.4	70°	22524.2	5442.2	736.9	544.7	448.6	297.5	292.9	302.1	256.3	219.7
28978.0	72.5°	17269.6	2490.0	457.7	398.2	306.7	201.4	233.4	238.0	196.8	164.8
18079.8	75°	10165.9	1066.5	288.4	256.3	155.6	132.7	169.4	173.9	132.7	105.3
6609.4	77.5°	3460.3	402.8	183.1	151.0	77.8	73.2	109.9	109.9	73.2	41.2
1327.4	80°	787.3	151.0	91.5	59.5	36.6	32.0	36.6	32.0	18.3	4.6
407.4	82.5°	224.3	59.5	36.6	22.9	13.7	13.7	4.6	0.0	0.0	0.0
141.9	85°	64.1	27.5	9.2	9.2	0.0	0.0	0.0	0.0	0.0	0.0
50.3	87.5°	27.5	4.6	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>
7346.3
6710.1
5662.0
4362.0
3204.0
2760.0
2682.2
2604.4
2522.0
2444.2
2366.4
2288.6
2206.2
2096.3
1949.9
1725.6
1478.4
1222.1
1011.6
860.5
778.1
723.2
663.7
604.2
521.8
393.6
306.7
256.3
201.4
146.5
91.5
32.0
0.0
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0.0
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