

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: P953852

Luminaire Tested: **GALN-SB7B-740-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953852  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7B-740-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

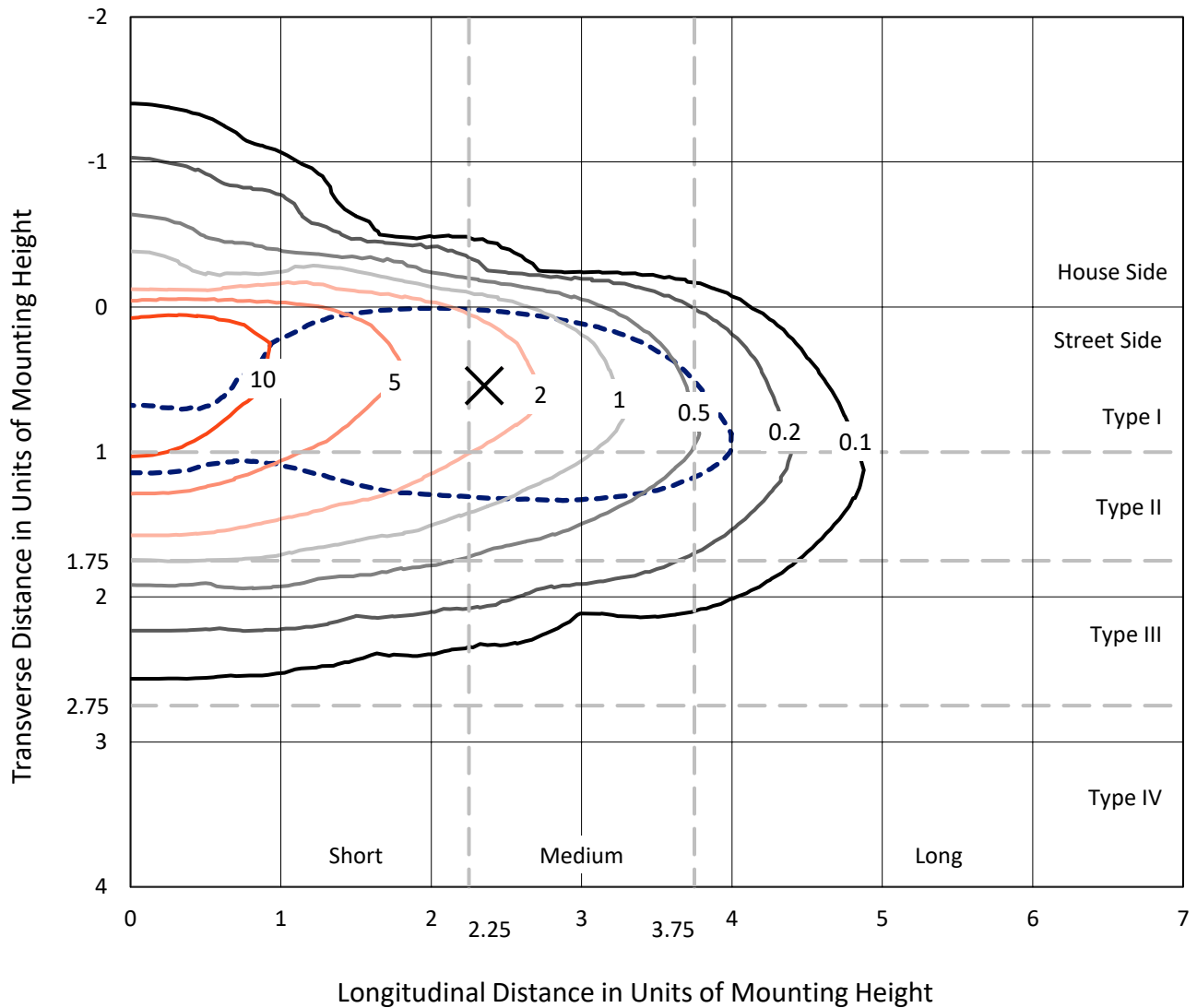
Lumens per Lamp: N/A  
Luminaire Lumens: 35872 lumens  
Efficiency: N/A  
Efficacy: 139.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): 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

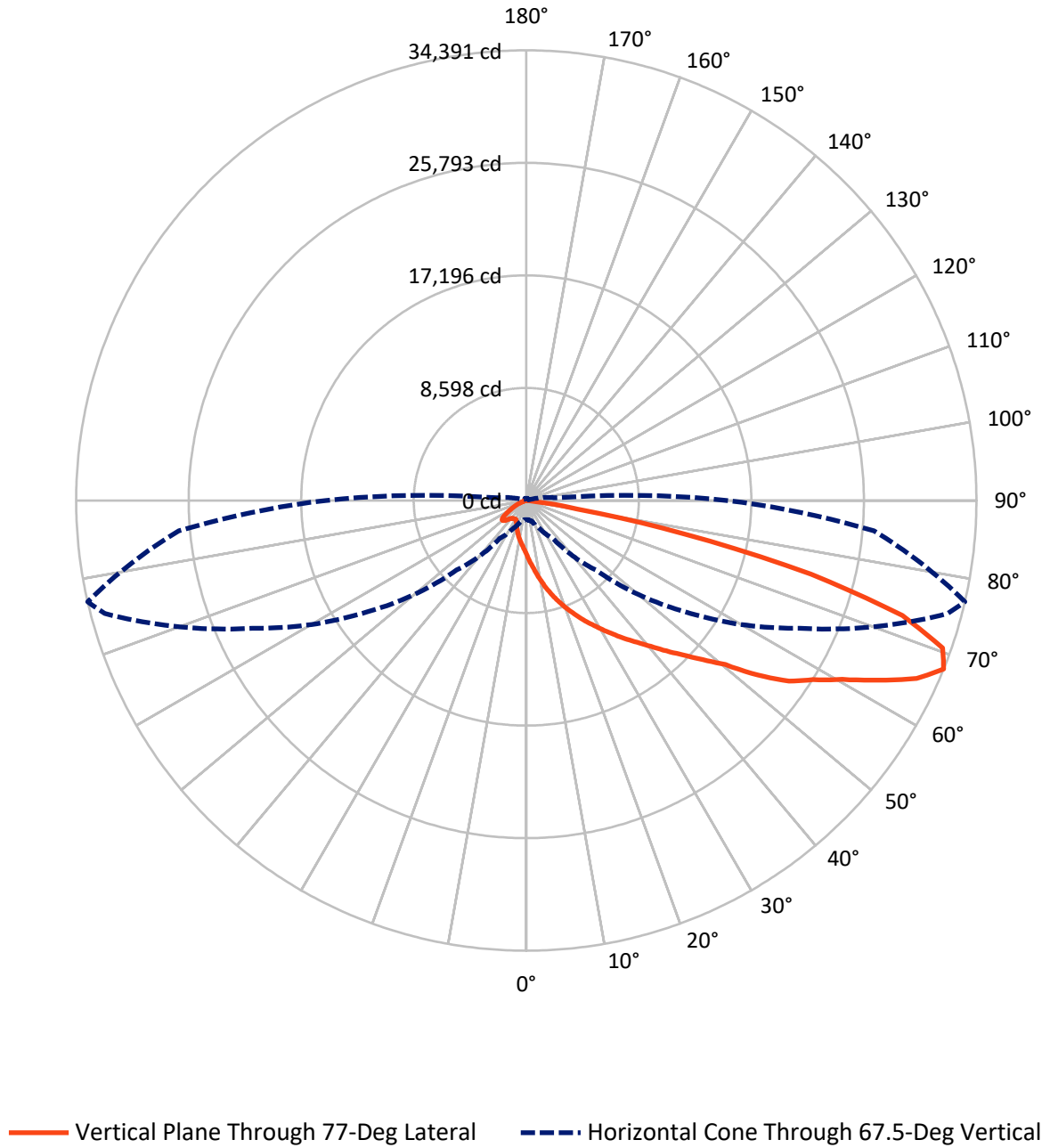
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2639.1	0.0	2639.1
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	33232.9	0.0	33232.9
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	35872.0	0.0	35872.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	422.2	1.2
10°-20°	1478.5	4.1
20°-30°	2853.1	8.0
30°-40°	4953.2	13.8
40°-50°	7191.7	20.0
50°-60°	8258.8	23.0
60°-70°	7170.2	20.0
70°-80°	3377.2	9.4
80°-90°	167.0	0.5
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°	35872.0	100.0
0°-180°	35872.0	100.0

**Coefficient of Utilization**



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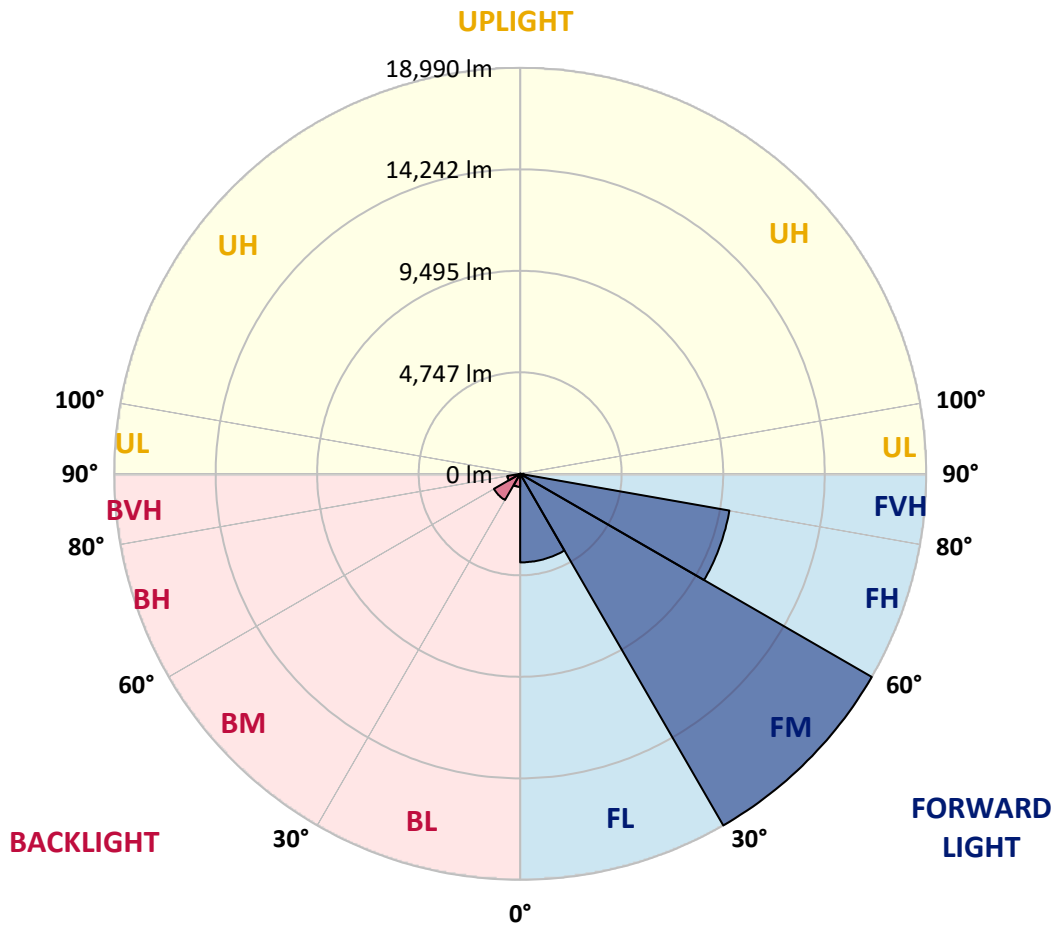
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4142.8	11.5			
FM (30°-60°)	18989.7	52.9			
FH (60°-80°)	9936.4	27.7			G4/12000
FVH (80°-90°)	163.9	0.5			G2/225
BL (0°-30°)	611.0	1.7	B2/1000		
BM (30°-60°)	1414.1	3.9	B2/2500		
BH (60°-80°)	611.0	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.1	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-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4136.6	4136.6	4136.6	4136.6	4136.6	4136.6	4136.6	4136.6	4136.6	4136.6
2.5°	5727.0	5762.7	5711.5	5613.4	5466.4	5370.6	5136.7	4916.2	4671.2	4593.2
5°	6981.2	7012.3	6954.4	6847.5	6651.5	6464.4	6157.0	5695.9	5216.9	5063.2
7.5°	7910.0	7927.9	7905.6	7807.6	7620.5	7408.8	7065.8	6520.1	5809.5	5640.2
10°	8578.3	8636.2	8629.5	8591.7	8466.9	8295.4	7930.1	7308.6	6473.3	6255.0
12.5°	9021.6	9086.2	9124.1	9208.7	9202.0	9092.9	8772.1	8115.0	7134.9	6878.7
15°	9150.8	9219.8	9364.6	9560.7	9734.4	9790.1	9565.1	8905.8	7863.3	7535.8
17.5°	9077.3	9184.2	9358.0	9667.6	10048.5	10300.2	10275.7	9669.8	8524.9	8150.6
20°	9239.9	9342.4	9478.2	9738.9	10182.2	10638.8	10821.5	10400.5	9182.0	8789.9
22.5°	10139.8	10122.0	10135.4	10177.7	10442.8	10895.0	11271.4	11064.3	9832.4	9431.5
25°	11565.5	11485.3	11349.4	11120.0	11053.1	11271.4	11663.5	11652.3	10518.5	10088.6
27.5°	13200.5	13187.1	12868.6	12316.1	12004.3	11919.6	12106.8	12224.8	11197.9	10739.0
30°	14766.5	14802.1	14372.2	13757.4	13184.9	12853.0	12683.7	12768.3	11888.5	11440.7
32.5°	16129.7	16167.6	15699.8	14980.3	14271.9	13871.0	13514.6	13305.2	12641.4	12153.5
35°	17281.4	17319.2	16782.4	15987.2	15232.0	14868.9	14465.7	13893.3	13398.7	12944.3
37.5°	18310.5	18299.4	17579.9	16777.9	16036.2	15748.8	15537.2	14617.2	14178.4	13739.6
40°	18918.6	18965.4	18350.6	17466.3	16746.8	16537.4	16524.0	15514.9	15078.3	14652.9
42.5°	19096.8	19179.2	18733.7	18007.6	17354.9	17127.7	17477.4	16486.1	16125.3	15710.9
45°	18776.1	18856.2	18653.5	18150.1	17769.2	17622.2	18297.1	17493.0	17243.5	16833.6
47.5°	17840.5	17940.7	17989.7	17882.8	17878.4	18027.6	19032.2	18553.3	18571.1	18152.3
50°	16029.5	16198.8	16648.7	17027.4	17613.3	18348.4	19747.3	19702.7	20068.0	19707.2
52.5°	12737.2	12977.7	14528.1	15563.9	16880.4	18288.2	20533.6	21547.1	22694.3	22166.4
55°	10235.6	10235.6	11496.4	13434.4	15450.3	17891.7	20876.6	22745.6	24483.1	24358.3
57.5°	8344.4	8444.7	9248.8	10961.8	13380.9	16947.2	21088.3	23498.5	25924.3	25833.0
60°	5150.1	5366.2	6885.4	8576.1	11026.4	15265.4	20954.6	24260.3	27672.9	27746.4
62.5°	2900.3	2980.5	3657.6	6170.3	8573.9	13004.5	19932.2	24685.8	29909.4	30221.2
65°	2002.6	2042.7	2303.3	3840.3	5943.1	10353.7	17934.0	24420.7	32150.3	32780.7
67.5°	1454.6	1474.6	1637.3	2345.6	3526.2	7506.9	14802.1	23084.1	33337.6	34391.2
70°	1118.2	1131.6	1249.7	1541.5	2082.8	4633.3	10750.2	20426.7	32477.7	33736.3
72.5°	908.8	922.2	1013.5	1140.5	1381.1	2739.9	6515.6	16588.6	28682.0	30040.8
75°	766.3	784.1	866.5	948.9	1082.6	1759.8	3056.2	11552.1	21569.4	22460.4
77.5°	425.5	392.0	703.9	786.3	913.3	1113.8	1430.1	6798.5	12080.0	12327.3
80°	265.1	274.0	559.1	632.6	701.7	561.3	654.9	2617.4	4187.8	3978.4
82.5°	15.6	35.6	429.9	456.6	481.2	240.6	247.3	888.8	1009.1	926.7
85°	0.0	0.0	196.0	158.2	167.1	69.1	71.3	207.2	135.9	147.0
87.5°	0.0	0.0	0.0	4.5	0.0	6.7	13.4	17.8	6.7	8.9
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°
4136.6	0°	4136.6	4136.6	4136.6	4136.6	4136.6	4136.6	4136.6	4136.6	4136.6	4136.6
4348.2	2.5°	4192.3	4036.3	3720.0	3410.4	3158.7	2924.8	2757.7	2599.6	2519.4	2514.9
4628.9	5°	4319.2	3991.8	3359.2	2800.0	2350.1	1989.2	1755.3	1588.2	1503.6	1474.6
4974.1	7.5°	4497.4	4005.1	3042.8	2265.4	1735.3	1425.6	1292.0	1238.5	1220.7	1200.7
5364.0	10°	4722.4	4036.3	2759.9	1824.4	1367.7	1211.8	1158.3	1136.1	1122.7	1109.3
5802.8	12.5°	4974.1	4065.3	2479.3	1514.7	1202.9	1122.7	1084.8	1058.1	1040.3	1024.7
6252.7	15°	5219.2	4083.1	2187.5	1298.7	1118.2	1053.6	1013.5	984.6	960.1	942.3
6693.8	17.5°	5462.0	4107.6	1913.5	1169.5	1049.2	984.6	944.5	908.8	888.8	868.7
7157.1	20°	5731.5	4103.2	1655.1	1078.1	980.1	915.5	873.2	839.8	819.7	797.5
7647.2	22.5°	5981.0	4080.9	1427.9	1000.2	908.8	846.5	799.7	766.3	746.2	728.4
8148.4	25°	6268.3	4063.1	1238.5	928.9	842.0	779.6	728.4	697.2	674.9	659.4
8651.8	27.5°	6544.6	4036.3	1100.4	864.3	777.4	717.3	668.3	632.6	612.6	601.4
9170.8	30°	6816.3	4029.6	1049.2	801.9	719.5	659.4	610.3	576.9	561.3	556.9
9741.1	32.5°	7143.8	4047.5	1071.5	779.6	666.0	605.9	559.1	534.6	519.0	519.0
10375.9	35°	7493.5	4043.0	1104.9	799.7	630.4	552.4	516.8	501.2	485.6	485.6
11079.9	37.5°	7932.3	4049.7	1131.6	833.1	617.0	507.9	487.8	467.8	458.9	458.9
11850.6	40°	8587.2	4270.2	1118.2	862.1	612.6	476.7	436.6	429.9	423.2	423.2
12721.6	42.5°	9389.1	4749.1	1136.1	864.3	610.3	454.4	401.0	414.3	398.7	396.5
13703.9	45°	10266.8	5272.6	1249.7	817.5	608.1	443.3	383.1	398.7	374.2	374.2
14842.2	47.5°	11137.8	5791.6	1365.5	750.7	601.4	441.1	367.5	358.6	352.0	354.2
16325.7	50°	12338.4	6214.9	1410.0	659.4	585.8	436.6	338.6	340.8	336.4	340.8
18417.4	52.5°	13646.0	6304.0	1356.6	556.9	541.3	423.2	318.5	327.5	325.2	329.7
19889.8	55°	14461.3	6208.2	1120.5	463.3	472.2	369.8	298.5	316.3	316.3	316.3
21328.8	57.5°	15303.3	5800.6	795.2	376.5	392.0	302.9	280.7	305.2	302.9	300.7
23061.9	60°	15909.2	5141.2	523.5	309.6	311.9	249.5	260.6	287.4	285.1	274.0
24848.4	62.5°	16361.4	4412.8	336.4	262.9	238.3	225.0	238.3	260.6	251.7	227.2
26363.1	65°	16310.2	3403.7	258.4	225.0	196.0	196.0	207.2	227.2	200.5	160.4
26652.7	67.5°	15359.0	2303.3	213.8	189.3	164.8	162.6	171.5	189.3	171.5	135.9
25169.1	70°	13659.4	1505.8	171.5	147.0	131.4	120.3	138.1	162.6	144.8	109.2
21426.8	72.5°	11086.5	917.8	129.2	106.9	95.8	78.0	109.2	133.7	115.8	80.2
14900.1	75°	7172.7	467.8	89.1	69.1	51.2	46.8	80.2	100.2	80.2	49.0
6611.4	77.5°	2744.3	196.0	49.0	31.2	26.7	22.3	44.6	60.1	33.4	11.1
1280.8	80°	527.9	82.4	24.5	15.6	13.4	8.9	6.7	4.5	0.0	0.0
227.2	82.5°	91.3	26.7	8.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0
44.6	85°	31.2	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.6	87.5°	11.1	0.0	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>
4136.6
2510.5
1470.2
1196.2
1104.9
1020.2
940.0
866.5
795.2
726.2
657.1
601.4
554.7
519.0
485.6
458.9
423.2
394.3
374.2
354.2
340.8
329.7
316.3
300.7
274.0
222.8
155.9
131.4
104.7
75.7
42.3
8.9
0.0
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0.0
0.0
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