

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: P952928

Luminaire Tested: **GALN-SB6C-850-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P952928  
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-SB6C-850-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

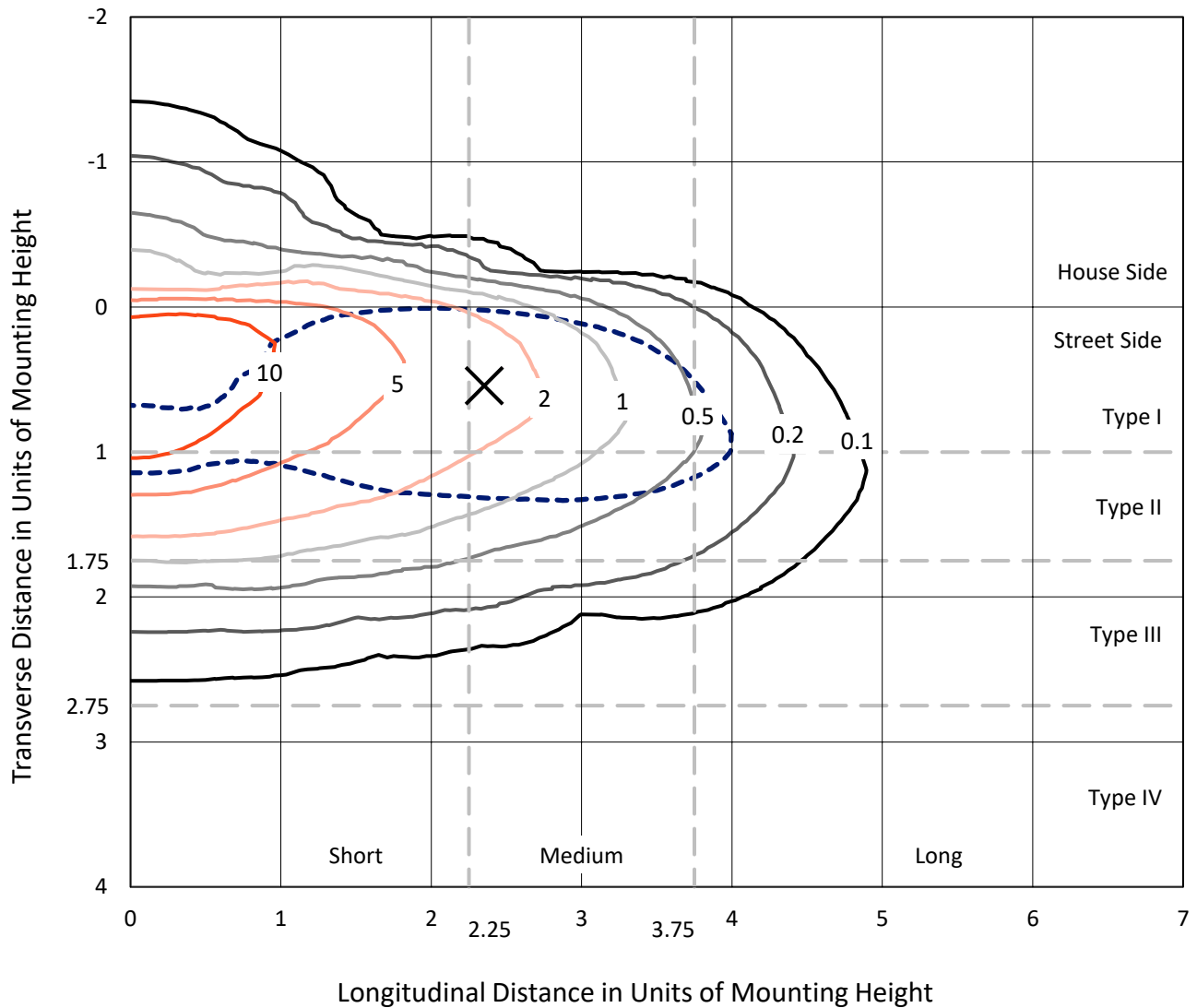
Lumens per Lamp: N/A  
Luminaire Lumens: 36780 lumens  
Efficiency: N/A  
Efficacy: 122.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

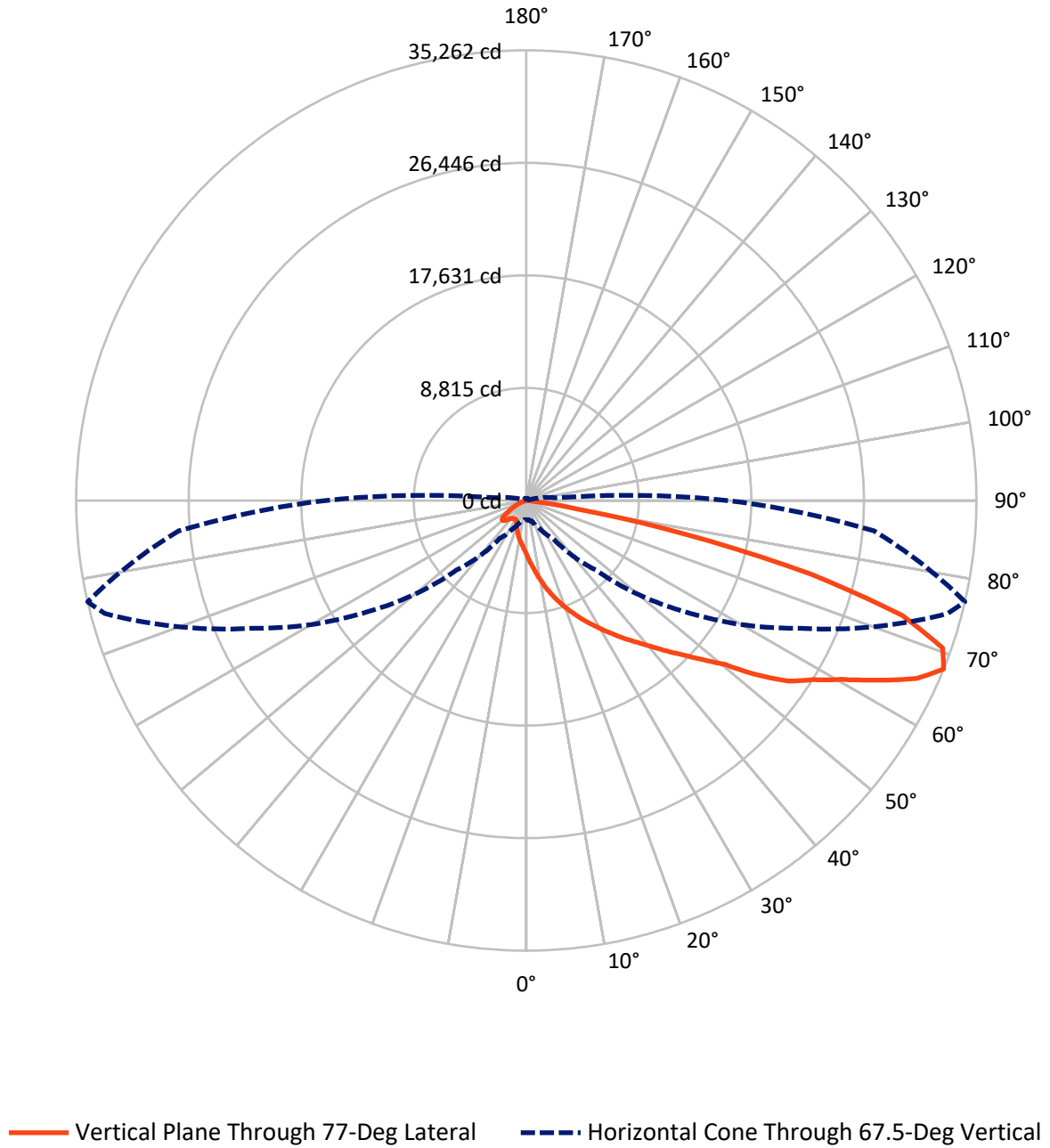
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 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	2705.9	0.0	2705.9
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	34074.1	0.0	34074.1
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	36780.0	0.0	36780.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	432.9	1.2
10°-20°	1515.9	4.1
20°-30°	2925.3	8.0
30°-40°	5078.6	13.8
40°-50°	7373.8	20.0
50°-60°	8467.9	23.0
60°-70°	7351.7	20.0
70°-80°	3462.7	9.4
80°-90°	171.2	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°	36780.0	100.0
0°-180°	36780.0	100.0

**Coefficient of Utilization**



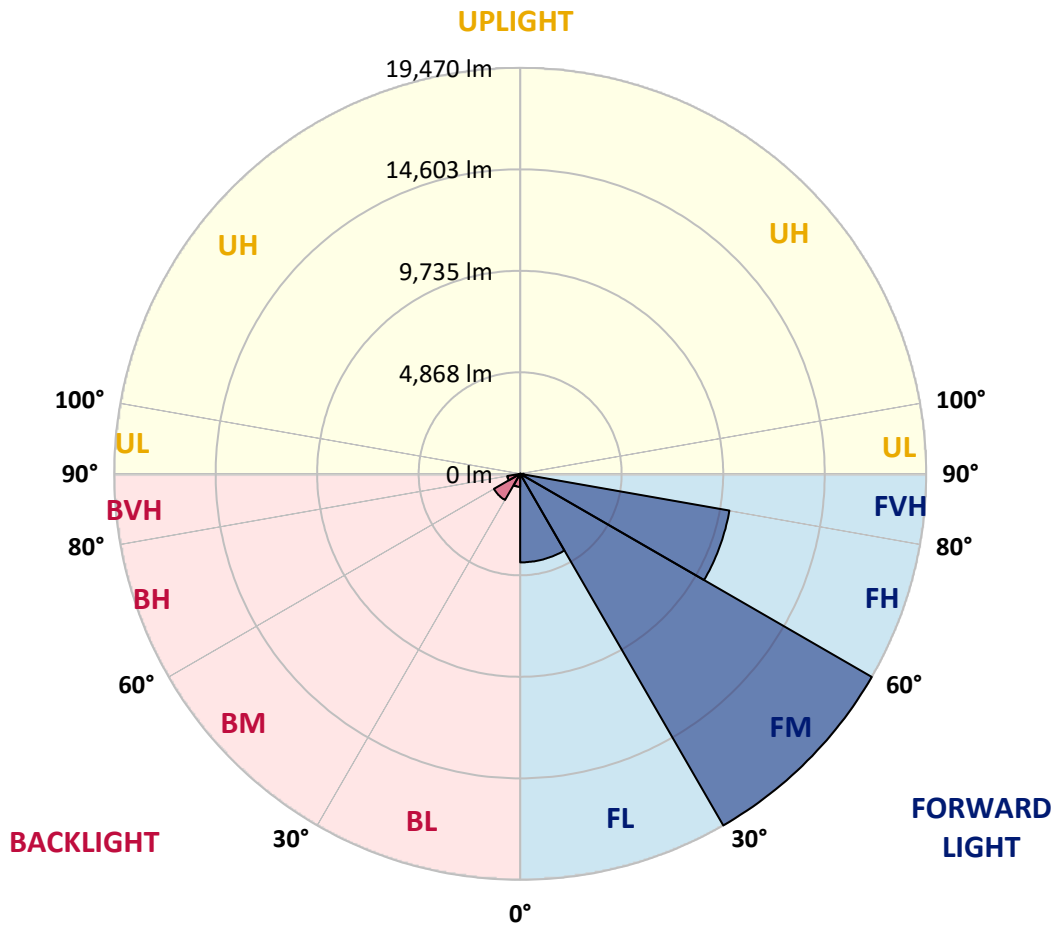
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4247.7	11.5			
FM (30°-60°)	19470.3	52.9			
FH (60°-80°)	10188.0	27.7			G4/12000
FVH (80°-90°)	168.1	0.5			G2/225
BL (0°-30°)	626.5	1.7	B2/1000		
BM (30°-60°)	1449.9	3.9	B2/2500		
BH (60°-80°)	626.4	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.2	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°	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3
2.5°	5872.0	5908.6	5856.0	5755.5	5604.8	5506.6	5266.8	5040.7	4789.4	4709.5
5°	7157.9	7189.8	7130.5	7020.8	6819.8	6628.0	6312.8	5840.0	5349.0	5191.4
7.5°	8110.3	8128.5	8105.7	8005.2	7813.4	7596.4	7244.7	6685.1	5956.5	5782.9
10°	8795.4	8854.8	8848.0	8809.2	8681.3	8505.4	8130.8	7493.6	6637.1	6413.3
12.5°	9250.0	9316.2	9355.0	9441.8	9435.0	9323.0	8994.2	8320.4	7315.5	7052.8
15°	9382.4	9453.2	9601.7	9802.7	9980.8	10037.9	9807.2	9131.2	8062.3	7726.6
17.5°	9307.1	9416.7	9594.8	9912.3	10302.8	10560.9	10535.8	9914.6	8740.6	8356.9
20°	9473.8	9578.8	9718.2	9985.4	10439.9	10908.1	11095.4	10663.7	9414.4	9012.4
22.5°	10396.5	10378.2	10391.9	10435.3	10707.1	11170.7	11556.7	11344.3	10081.3	9670.2
25°	11858.2	11776.0	11636.7	11401.4	11332.9	11556.7	11958.7	11947.3	10784.8	10344.0
27.5°	13534.6	13520.9	13194.3	12627.9	12308.1	12221.4	12413.2	12534.3	11481.4	11010.9
30°	15140.2	15176.8	14736.0	14105.6	13518.6	13178.3	13004.7	13091.5	12189.4	11730.3
32.5°	16538.0	16576.8	16097.2	15359.5	14633.2	14222.1	13856.7	13642.0	12961.4	12461.2
35°	17718.8	17757.6	17207.2	16391.8	15617.6	15245.3	14831.9	14244.9	13737.9	13272.0
37.5°	18774.0	18762.6	18024.8	17202.6	16442.1	16147.4	15930.5	14987.2	14537.3	14087.3
40°	19397.5	19445.5	18815.1	17908.4	17170.7	16956.0	16942.3	15907.6	15460.0	15023.8
42.5°	19580.2	19664.7	19207.9	18463.4	17794.2	17561.2	17919.8	16903.4	16533.4	16108.6
45°	19251.3	19333.5	19125.7	18609.5	18219.0	18068.2	18760.3	17935.8	17680.0	17259.7
47.5°	18292.1	18394.8	18445.1	18335.5	18330.9	18483.9	19514.0	19022.9	19041.2	18611.8
50°	16435.2	16608.8	17070.2	17458.4	18059.1	18812.8	20247.1	20201.4	20576.0	20206.0
52.5°	13059.6	13306.2	14895.8	15957.9	17307.7	18751.1	21053.3	22092.5	23268.8	22727.5
55°	10494.7	10494.7	11787.4	13774.4	15841.4	18344.6	21405.1	23321.3	25102.8	24974.9
57.5°	8555.6	8658.4	9482.9	11239.3	13719.6	17376.2	21622.1	24093.3	26580.5	26486.8
60°	5280.5	5502.0	7059.7	8793.2	11305.5	15651.8	21485.0	24874.4	28373.4	28448.7
62.5°	2973.7	3055.9	3750.2	6326.5	8790.9	13333.6	20436.7	25310.6	30666.4	30986.2
65°	2053.3	2094.4	2361.6	3937.5	6093.5	10615.7	18388.0	25038.8	32964.1	33610.4
67.5°	1491.4	1512.0	1678.7	2405.0	3615.5	7696.9	15176.8	23668.5	34181.4	35261.7
70°	1146.5	1160.2	1281.3	1580.5	2135.5	4750.6	11022.3	20943.7	33299.8	34590.3
72.5°	931.8	945.6	1039.2	1169.4	1416.0	2809.2	6680.5	17008.5	29408.0	30801.2
75°	785.7	803.9	888.5	973.0	1110.0	1804.3	3133.6	11844.5	22115.4	23029.0
77.5°	436.2	402.0	721.7	806.2	936.4	1142.0	1466.3	6970.6	12385.8	12639.3
80°	271.8	280.9	573.3	648.6	719.4	575.6	671.5	2683.6	4293.8	4079.1
82.5°	16.0	36.5	440.8	468.2	493.3	246.7	253.5	911.3	1034.6	950.1
85°	0.0	0.0	201.0	162.2	171.3	70.8	73.1	212.4	139.3	150.7
87.5°	0.0	0.0	0.0	4.6	0.0	6.9	13.7	18.3	6.9	9.1
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°
4241.3	0°	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3
4458.2	2.5°	4298.4	4138.5	3814.2	3496.7	3238.6	2998.8	2827.5	2665.4	2583.1	2578.6
4746.0	5°	4428.6	4092.8	3444.2	2870.9	2409.6	2039.6	1799.7	1628.4	1541.7	1512.0
5100.0	7.5°	4611.3	4106.5	3119.9	2322.8	1779.2	1461.7	1324.7	1269.9	1251.6	1231.0
5499.7	10°	4842.0	4138.5	2829.8	1870.5	1402.3	1242.5	1187.6	1164.8	1151.1	1137.4
5949.7	12.5°	5100.0	4168.2	2542.0	1553.1	1233.3	1151.1	1112.3	1084.9	1066.6	1050.6
6411.0	15°	5351.3	4186.5	2242.8	1331.5	1146.5	1080.3	1039.2	1009.5	984.4	966.1
6863.2	17.5°	5600.2	4211.6	1961.9	1199.1	1075.7	1009.5	968.4	931.8	911.3	890.7
7338.3	20°	5876.6	4207.0	1697.0	1105.4	1004.9	938.7	895.3	861.0	840.5	817.7
7840.8	22.5°	6132.4	4184.2	1464.0	1025.5	931.8	867.9	819.9	785.7	765.1	746.8
8354.6	25°	6427.0	4165.9	1269.9	952.4	863.3	799.4	746.8	714.9	692.0	676.0
8870.8	27.5°	6710.2	4138.5	1128.3	886.2	797.1	735.4	685.2	648.6	628.1	616.7
9403.0	30°	6988.9	4131.6	1075.7	822.2	737.7	676.0	625.8	591.5	575.6	571.0
9987.7	32.5°	7324.6	4149.9	1098.6	799.4	682.9	621.2	573.3	548.1	532.2	532.2
10638.6	35°	7683.2	4145.3	1132.8	819.9	646.4	566.4	529.9	513.9	497.9	497.9
11360.3	37.5°	8133.1	4152.2	1160.2	854.2	632.7	520.7	500.2	479.6	470.5	470.5
12150.6	40°	8804.6	4378.3	1146.5	883.9	628.1	488.8	447.7	440.8	433.9	433.9
13043.6	42.5°	9626.8	4869.4	1164.8	886.2	625.8	465.9	411.1	424.8	408.8	406.5
14050.8	45°	10526.7	5406.1	1281.3	838.2	623.5	454.5	392.8	408.8	383.7	383.7
15217.9	47.5°	11419.7	5938.2	1400.1	769.7	616.7	452.2	376.8	367.7	360.9	363.1
16739.0	50°	12650.7	6372.2	1445.7	676.0	600.7	447.7	347.2	349.4	344.9	349.4
18883.6	52.5°	13991.4	6463.5	1390.9	571.0	555.0	433.9	326.6	335.7	333.5	338.0
20393.3	55°	14827.3	6365.3	1148.8	475.1	484.2	379.1	306.0	324.3	324.3	324.3
21868.7	57.5°	15690.7	5947.4	815.4	386.0	402.0	310.6	287.8	312.9	310.6	308.3
23645.6	60°	16311.9	5271.3	536.7	317.5	319.8	255.8	267.2	294.6	292.3	280.9
25477.3	62.5°	16775.5	4524.5	344.9	269.5	244.4	230.7	244.4	267.2	258.1	233.0
27030.4	65°	16723.0	3489.9	264.9	230.7	201.0	201.0	212.4	233.0	205.6	164.4
27327.3	67.5°	15747.8	2361.6	219.3	194.1	169.0	166.7	175.9	194.1	175.9	139.3
25806.2	70°	14005.1	1543.9	175.9	150.7	134.8	123.3	141.6	166.7	148.5	111.9
21969.2	72.5°	11367.2	941.0	132.5	109.6	98.2	79.9	111.9	137.0	118.8	82.2
15277.3	75°	7354.3	479.6	91.4	70.8	52.5	48.0	82.2	102.8	82.2	50.2
6778.7	77.5°	2813.8	201.0	50.2	32.0	27.4	22.8	45.7	61.7	34.3	11.4
1313.3	80°	541.3	84.5	25.1	16.0	13.7	9.1	6.9	4.6	0.0	0.0
233.0	82.5°	93.6	27.4	9.1	4.6	0.0	0.0	0.0	0.0	0.0	0.0
45.7	85°	32.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16.0	87.5°	11.4	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>
4241.3
2574.0
1507.4
1226.5
1132.8
1046.0
963.8
888.5
815.4
744.6
673.8
616.7
568.7
532.2
497.9
470.5
433.9
404.3
383.7
363.1
349.4
338.0
324.3
308.3
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