

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: P956187

Luminaire Tested: **GALN-SB8D-930-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956187  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8D-930-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

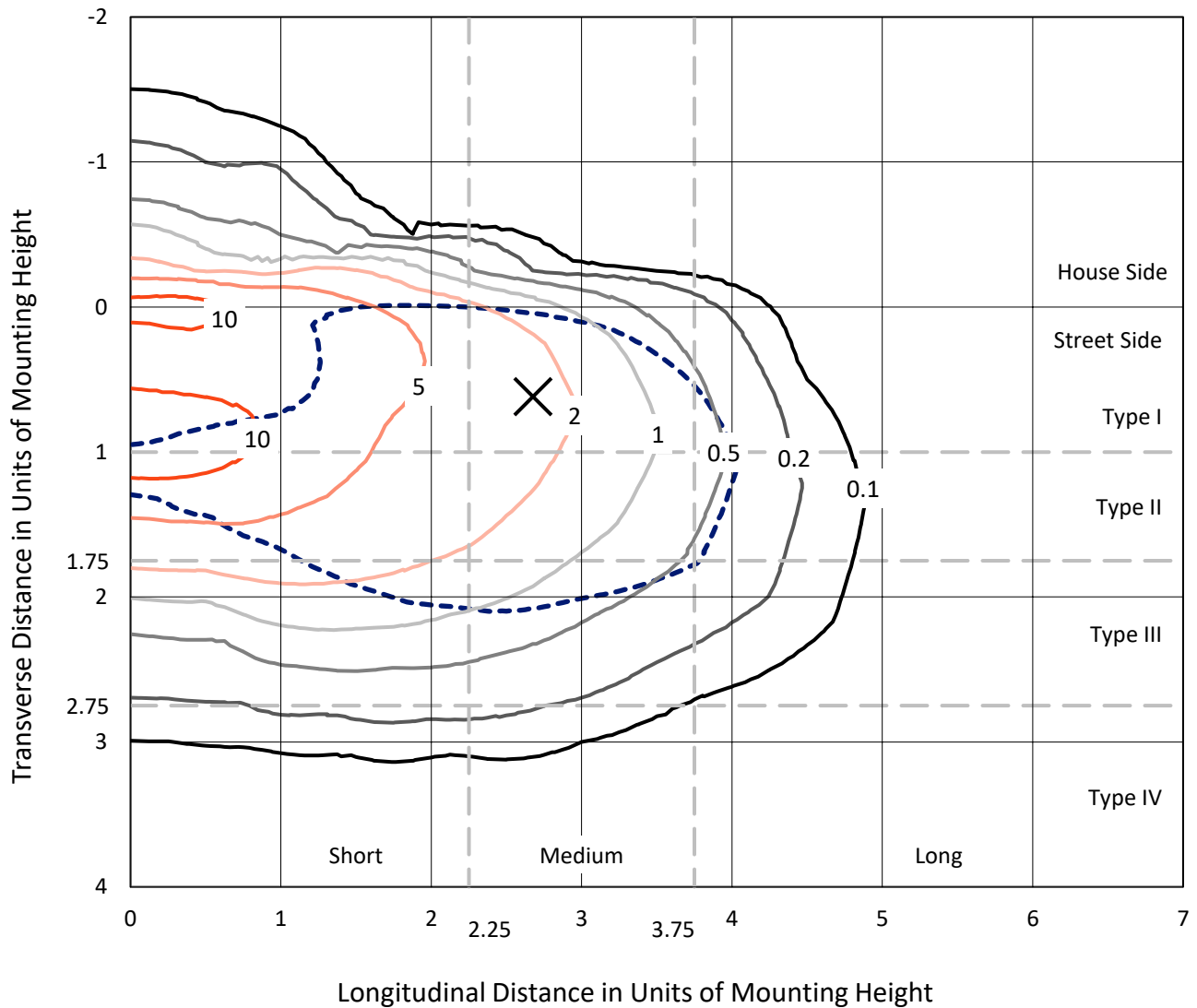
Lumens per Lamp: N/A  
Luminaire Lumens: 47656 lumens  
Efficiency: N/A  
Efficacy: 81.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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

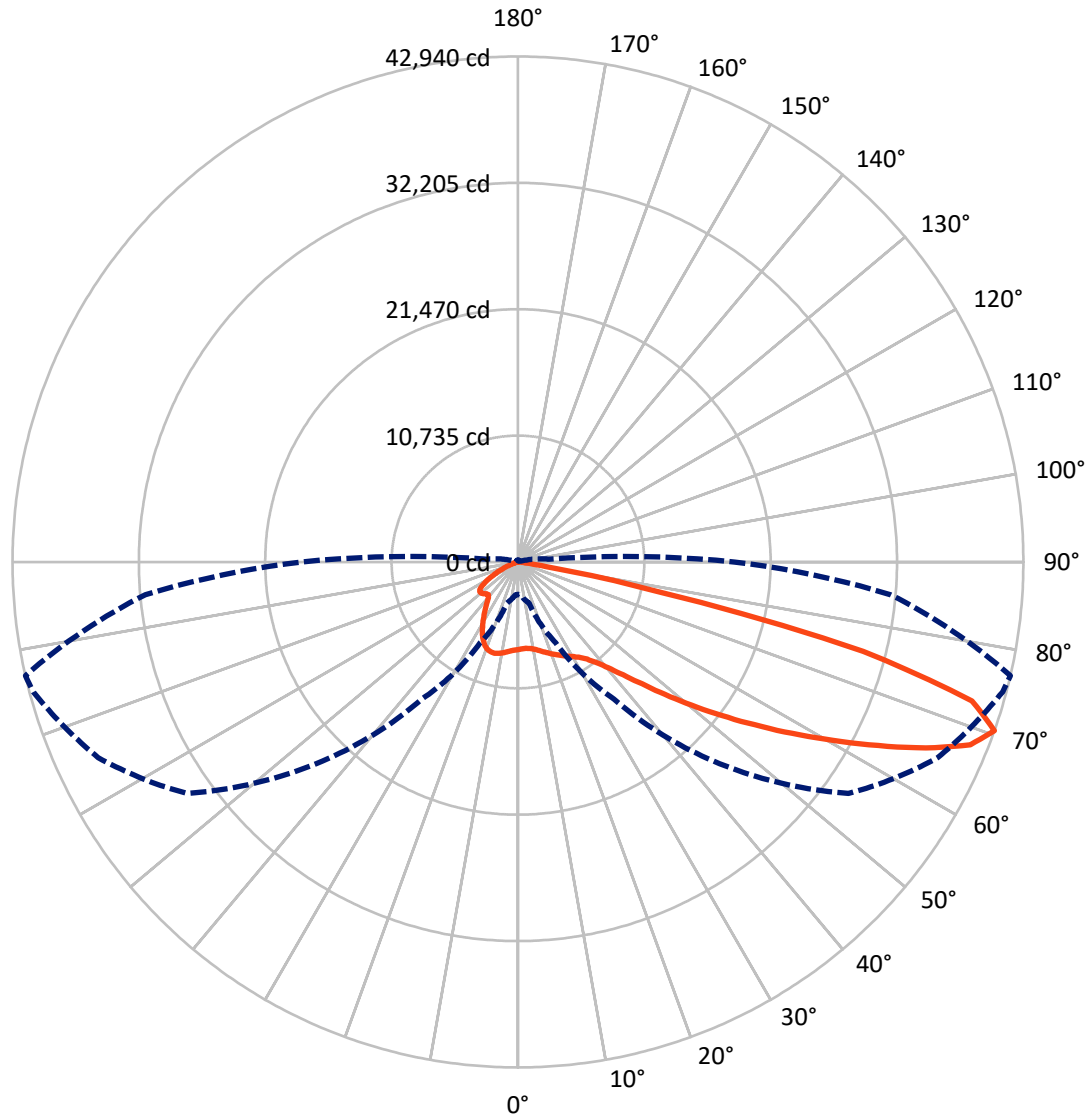
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5023.6	0.0	5023.6
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	42632.4	0.0	42632.4
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	47656.0	0.0	47656.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	640.6	1.3
10°-20°	1520.8	3.2
20°-30°	2352.3	4.9
30°-40°	4268.4	9.0
40°-50°	8057.0	16.9
50°-60°	11641.8	24.4
60°-70°	12392.4	26.0
70°-80°	6567.1	13.8
80°-90°	215.6	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°	47656.0	100.0
0°-180°	47656.0	100.0

**Coefficient of Utilization**



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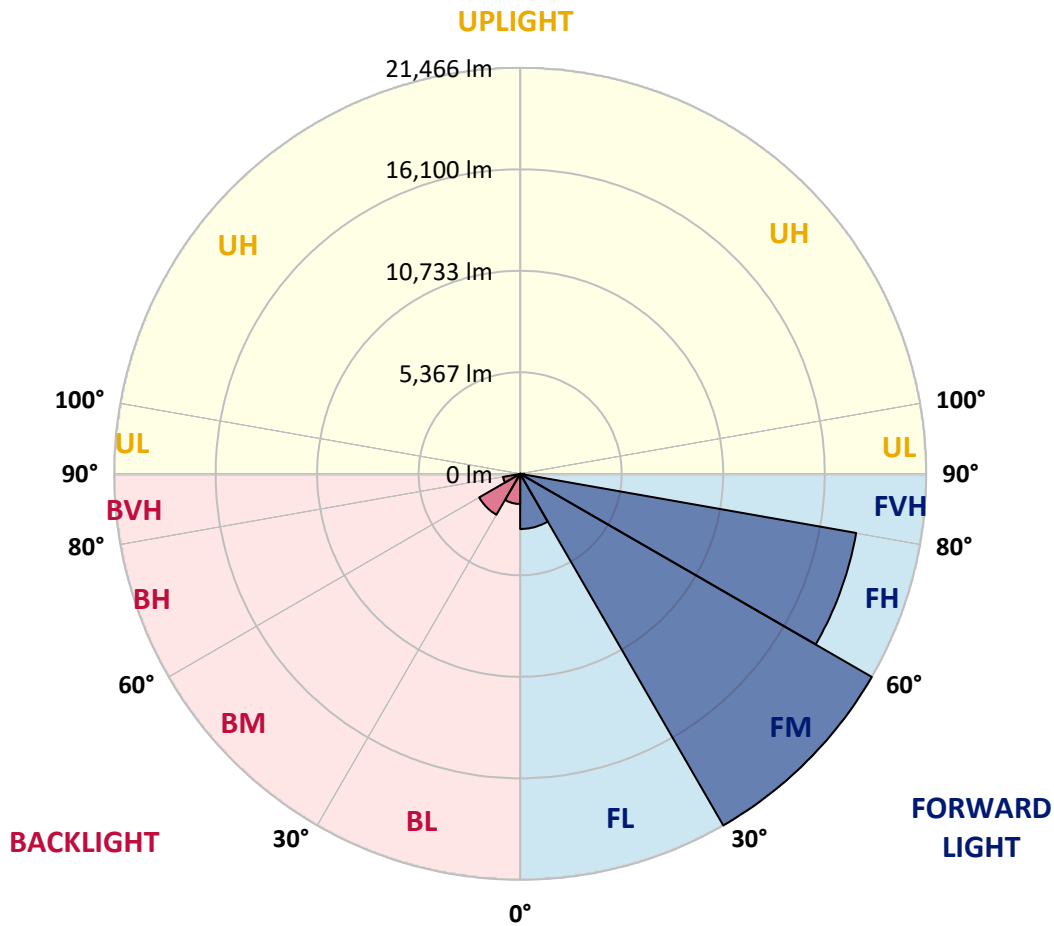
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2917.7	6.1			
FM (30°-60°)	21466.4	45.0			
FH (60°-80°)	18038.5	37.9			G5
FVH (80°-90°)	209.8	0.4			G2/225
BL (0°-30°)	1596.1	3.3	B3/2500		
BM (30°-60°)	2500.8	5.2	B3/5000		
BH (60°-80°)	921.0	1.9	B2/1000		G2/1000
BVH (80°-90°)	5.8	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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	7433.5	7433.5	7433.5	7433.5	7433.5	7433.5	7433.5	7433.5	7433.5	7433.5
2.5°	6979.0	7042.2	7033.2	7075.3	7090.4	7150.6	7210.8	7292.0	7382.3	7379.3
5°	6584.8	6648.0	6663.0	6720.2	6792.5	6885.7	7009.1	7171.6	7340.2	7367.3
7.5°	6118.3	6184.5	6223.7	6338.0	6470.4	6663.0	6864.7	7102.4	7382.3	7421.4
10°	5651.8	5712.0	5763.2	5925.7	6136.4	6422.3	6750.3	7093.4	7469.6	7526.8
12.5°	5362.9	5420.1	5477.3	5618.7	5880.6	6229.7	6675.1	7135.5	7614.0	7695.3
15°	5260.6	5311.8	5356.9	5483.3	5727.1	6124.3	6660.0	7222.8	7797.6	7906.0
17.5°	5275.7	5302.7	5332.8	5429.1	5666.9	6076.2	6687.1	7373.3	8014.3	8110.6
20°	5362.9	5378.0	5381.0	5447.2	5657.9	6070.2	6741.3	7517.7	8219.0	8348.4
22.5°	5474.3	5480.3	5474.3	5519.4	5715.0	6115.3	6813.5	7692.3	8447.7	8568.1
25°	5994.9	5880.6	5736.1	5648.8	5811.4	6202.6	6921.9	7927.0	8697.5	8814.8
27.5°	7611.0	7283.0	6765.4	6184.5	6010.0	6329.0	7072.3	8164.8	8950.3	9055.6
30°	10235.3	9805.0	8926.2	7617.1	6648.0	6593.8	7268.0	8402.5	9218.1	9332.5
32.5°	12865.6	12760.3	11746.1	9934.4	8083.5	7183.7	7593.0	8724.6	9573.2	9663.5
35°	15526.0	15312.4	14481.7	12691.1	10295.5	8384.5	8134.7	9145.9	10039.7	10142.0
37.5°	17563.5	17434.1	16919.4	15444.8	12919.8	10238.3	9061.6	9798.9	10716.8	10831.2
40°	19363.1	19303.0	19128.4	18156.3	15854.1	12664.0	10503.2	10810.1	11655.8	11791.2
42.5°	20777.6	20919.1	21018.4	20747.5	18878.6	15432.7	12441.3	12230.6	12964.9	13103.4
45°	22225.2	22273.3	22673.6	23064.8	21882.1	18327.9	14626.2	13894.9	14593.1	14764.6
47.5°	23155.1	23347.7	24052.0	24741.1	24407.1	21198.9	16973.6	15860.1	16480.0	16802.1
50°	23224.3	23588.5	24557.6	25758.3	26245.9	23931.6	19525.7	18099.2	18758.2	19113.4
52.5°	22071.7	22637.5	24139.2	25896.8	27239.0	26245.9	22165.0	20338.2	21183.9	21647.4
55°	16922.4	17662.8	22565.3	25144.4	27278.1	28000.4	24735.1	22670.6	23886.4	24410.1
57.5°	14743.6	15116.7	17741.0	23838.3	26552.9	28707.7	27058.5	24891.6	26826.7	27476.8
60°	12266.7	12757.3	14879.0	21701.5	25568.7	28776.9	29110.9	27756.7	30013.8	30745.1
62.5°	8336.3	8869.0	10978.7	18029.9	24223.5	28743.8	30793.2	30706.0	33556.0	34341.5
65°	5164.3	5498.4	6888.8	14722.5	22342.6	28779.9	32553.8	34287.3	37293.8	38091.3
67.5°	4080.9	4234.4	4959.7	11303.7	19101.3	27967.3	34311.4	37654.9	40811.9	41443.9
70°	2741.7	2835.0	3608.4	7577.9	14210.9	24217.5	34278.3	39346.3	42623.6	42939.6
72.5°	1444.6	1516.8	2109.7	3509.1	8583.1	17214.4	28894.2	37323.9	40820.9	40345.4
75°	722.3	842.7	1420.5	1781.6	3665.6	9600.3	17942.7	29426.9	32129.5	30287.7
77.5°	547.7	662.1	1173.7	1173.7	1276.0	3232.2	7599.0	16049.7	14803.8	12326.9
80°	349.1	451.4	1026.2	887.8	532.7	821.6	1980.3	4496.2	3144.9	2392.6
82.5°	204.6	294.9	854.7	586.9	297.9	304.0	559.8	957.0	815.6	635.0
85°	81.3	192.6	586.9	231.7	117.4	75.2	168.5	204.6	168.5	126.4
87.5°	0.0	45.1	102.3	0.0	9.0	6.0	12.0	15.0	15.0	12.0
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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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7433.5	0°	7433.5	7433.5	7433.5	7433.5	7433.5	7433.5	7433.5	7433.5	7433.5	7433.5
7439.5	2.5°	7466.6	7472.6	7490.7	7493.7	7451.5	7397.4	7376.3	7367.3	7331.2	7328.1
7487.6	5°	7556.9	7584.0	7556.9	7478.6	7292.0	7030.2	6831.6	6669.1	6521.6	6476.5
7653.2	7.5°	7737.4	7764.5	7683.3	7376.3	6906.8	6386.2	5916.7	5585.6	5287.7	5176.3
7854.8	10°	7996.3	8032.4	7776.6	7156.6	6326.0	5489.3	4694.8	4135.1	3698.7	3521.1
8128.7	12.5°	8321.3	8336.3	7827.7	6822.5	5570.6	4375.8	3250.3	2651.4	2263.1	2118.7
8459.7	15°	8679.4	8658.3	7833.7	6368.1	4541.3	3093.8	2121.7	1742.5	1586.0	1537.9
8790.8	17.5°	9055.6	8968.3	7713.4	5712.0	3412.8	2115.7	1574.0	1483.7	1456.6	1444.6
9118.8	20°	9425.8	9230.1	7493.7	4854.3	2449.7	1580.0	1429.5	1402.4	1387.4	1381.4
9449.8	22.5°	9762.8	9428.8	7117.5	3858.2	1778.6	1396.4	1351.3	1327.2	1300.1	1288.1
9771.9	25°	10090.9	9543.1	6587.8	2928.2	1423.5	1306.1	1270.0	1224.9	1188.8	1173.7
10118.0	27.5°	10409.9	9615.4	5925.7	2166.8	1270.0	1221.9	1155.6	1092.5	1065.4	1059.3
10488.1	30°	10749.9	9639.4	5173.3	1616.1	1176.7	1116.5	1020.2	948.0	932.9	936.0
10987.7	32.5°	11165.3	9675.6	4414.9	1324.2	1098.5	990.1	875.8	800.5	788.5	800.5
11716.0	35°	11661.8	9747.8	3683.6	1218.8	1029.3	860.7	737.3	674.1	662.1	671.1
12648.9	37.5°	12336.0	9865.2	3000.5	1197.8	972.1	752.4	620.0	568.8	568.8	571.8
13792.6	40°	13232.8	10178.1	2389.5	1182.7	942.0	671.1	523.7	502.6	511.6	517.6
15249.2	42.5°	14325.2	10843.2	1977.2	1164.7	908.9	635.0	475.5	466.5	481.5	487.5
16994.7	45°	15550.1	11685.9	1832.8	1134.6	878.8	659.1	454.4	442.4	460.5	463.5
18950.8	47.5°	16817.1	12510.5	1814.7	1101.5	848.7	695.2	448.4	421.3	442.4	445.4
21039.4	50°	18099.2	13049.2	1832.8	1050.3	800.5	695.2	451.4	400.3	418.3	427.3
23206.3	52.5°	19390.2	13296.0	1820.8	939.0	716.3	653.1	451.4	382.2	400.3	406.3
25547.7	55°	20642.2	13247.8	1637.2	773.4	607.9	577.8	439.4	367.2	379.2	382.2
27759.7	57.5°	21632.3	12576.7	1297.1	601.9	493.6	481.5	400.3	349.1	358.1	355.1
29788.1	60°	22150.0	11102.1	926.9	463.5	388.2	379.2	352.1	325.0	331.0	316.0
31506.5	62.5°	22156.0	9151.9	620.0	367.2	310.0	301.0	301.0	291.9	285.9	255.8
32836.7	65°	21683.5	6988.1	412.3	291.9	249.8	234.7	252.8	249.8	228.7	186.6
33243.0	67.5°	20612.1	4580.5	313.0	228.7	192.6	183.6	201.6	210.7	195.6	156.5
31762.3	70°	18409.1	2666.4	258.8	177.6	144.5	135.4	162.5	180.6	162.5	126.4
27148.7	72.5°	15291.3	1438.5	210.7	132.4	99.3	90.3	129.4	147.5	129.4	93.3
17419.0	75°	9922.3	770.4	162.5	87.3	51.2	57.2	96.3	108.3	90.3	60.2
5113.1	77.5°	3331.5	340.1	102.3	42.1	24.1	24.1	57.2	66.2	42.1	21.1
929.9	80°	743.3	141.4	42.1	18.1	9.0	9.0	12.0	12.0	6.0	0.0
285.9	82.5°	243.8	57.2	18.1	6.0	0.0	0.0	0.0	0.0	0.0	0.0
72.2	85°	93.3	21.1	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24.1	87.5°	36.1	3.0	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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180°  
7433.5  
7334.2  
6449.4  
5131.2  
3445.9  
2073.5  
1537.9  
1441.6  
1375.3  
1285.1  
1167.7  
1053.3  
936.0  
797.5  
668.1  
568.8  
517.6  
487.5  
466.5  
448.4  
430.4  
406.3  
382.2  
355.1  
313.0  
246.8  
180.6  
153.5  
*120.4*  
90.3  
54.2  
18.1  
0.0  
0.0  
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0.0  
0.0

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