

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: P954213

Luminaire Tested: **GALN-SB7C-740-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954213  
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-SB7C-740-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

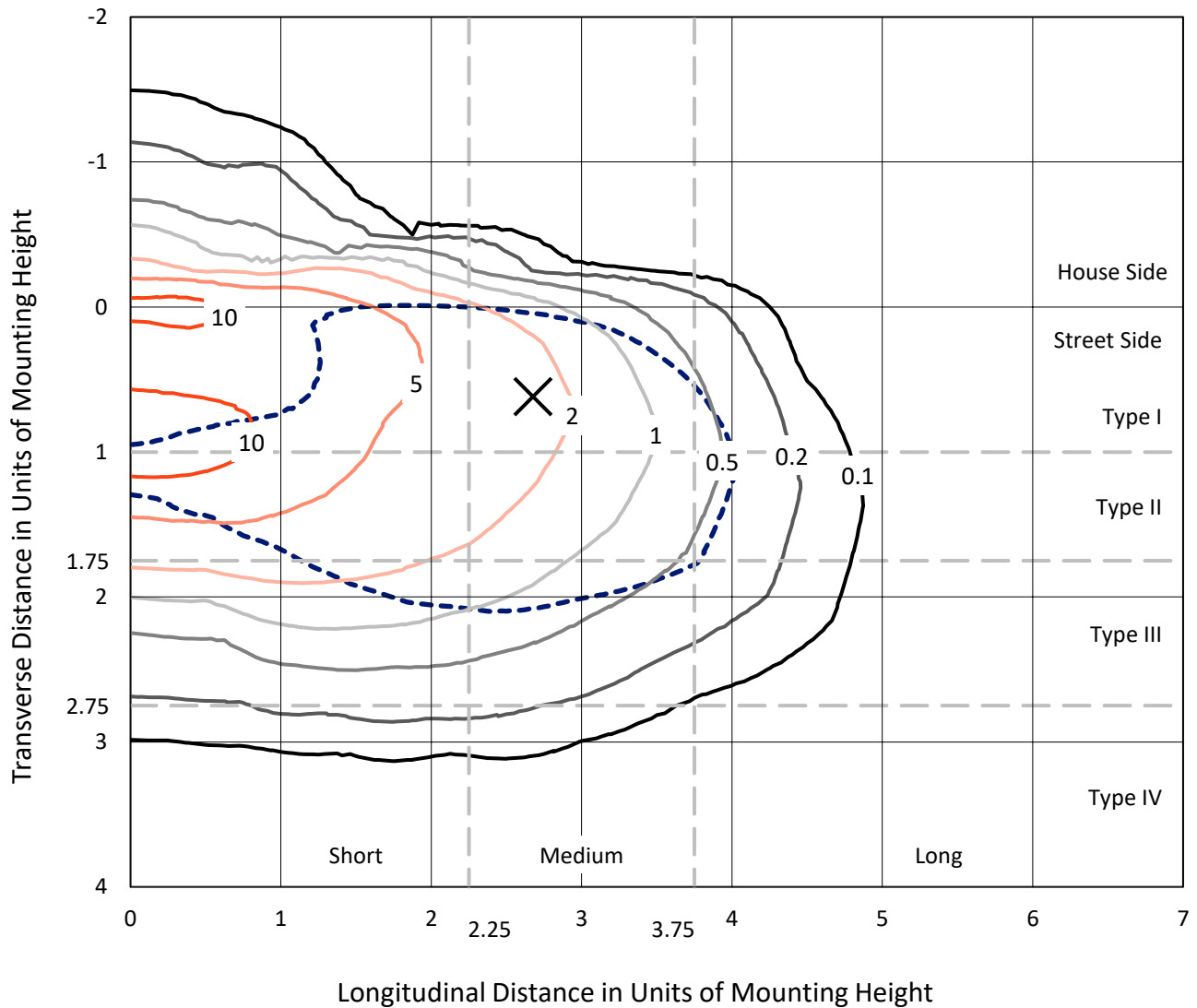
Lumens per Lamp: N/A  
Luminaire Lumens: 46912 lumens  
Efficiency: N/A  
Efficacy: 133.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 350.5  
Input Voltage (V): NR  
Input Current (Ain): 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

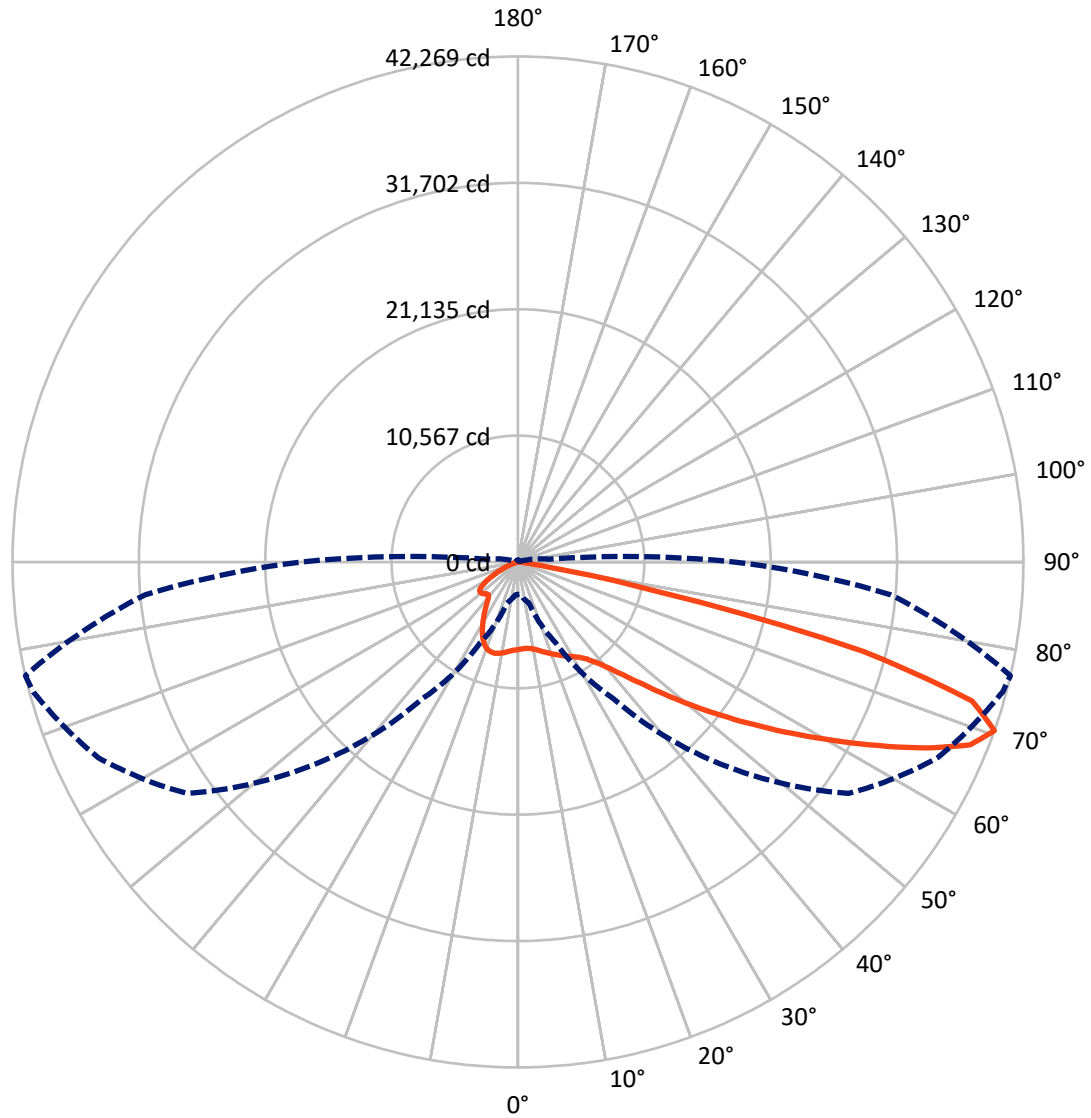
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 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	4945.2	0.0	4945.2
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	41966.8	0.0	41966.8
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	46912.0	0.0	46912.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	630.6	1.3
10°-20°	1497.1	3.2
20°-30°	2315.6	4.9
30°-40°	4201.7	9.0
40°-50°	7931.3	16.9
50°-60°	11460.0	24.4
60°-70°	12198.9	26.0
70°-80°	6464.6	13.8
80°-90°	212.3	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°	46912.0	100.0
0°-180°	46912.0	100.0

**Coefficient of Utilization**



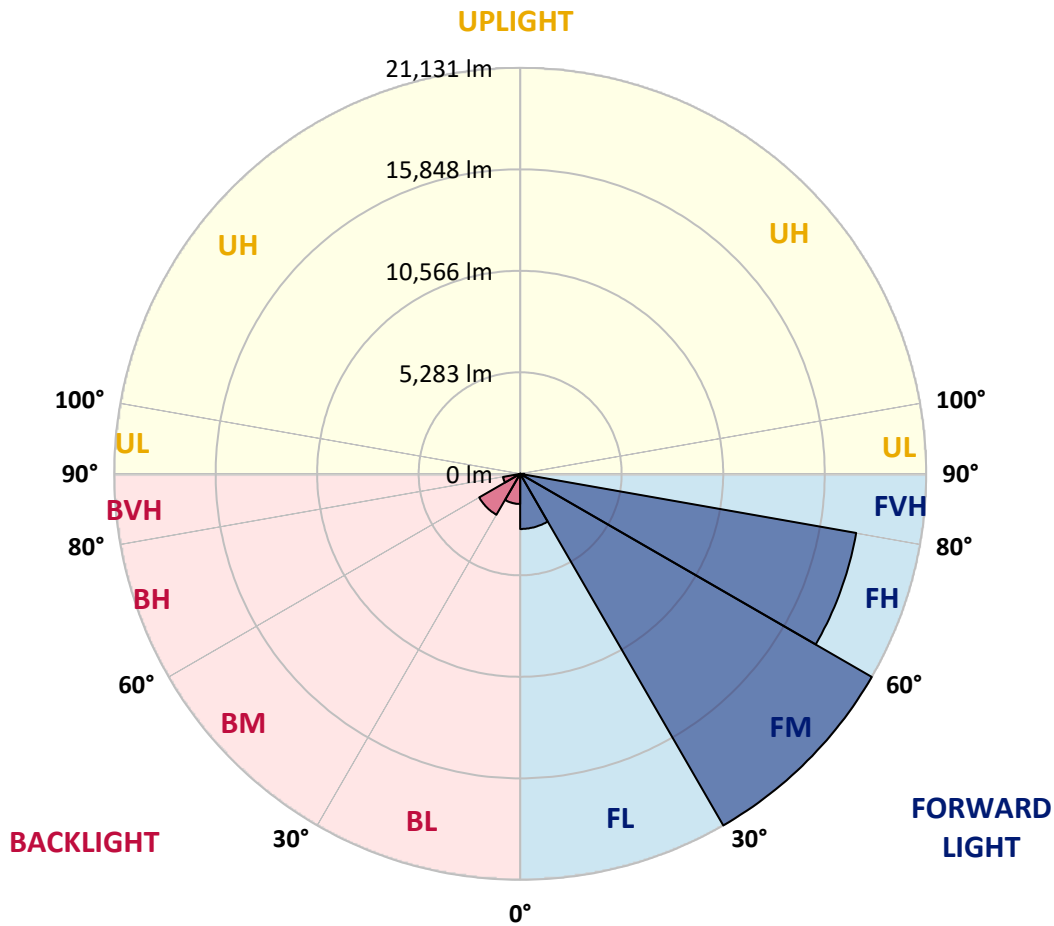
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2872.1	6.1			
FM (30°-60°)	21131.3	45.0			
FH (60°-80°)	17756.9	37.9			G5
FVH (80°-90°)	206.6	0.4			G2/225
BL (0°-30°)	1571.2	3.3	B3/2500		
BM (30°-60°)	2461.7	5.2	B2/2500		
BH (60°-80°)	906.6	1.9	B2/1000		G2/1000
BVH (80°-90°)	5.7	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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	7317.4	7317.4	7317.4	7317.4	7317.4	7317.4	7317.4	7317.4	7317.4	7317.4
2.5°	6870.1	6932.3	6923.4	6964.9	6979.7	7038.9	7098.2	7178.2	7267.1	7264.1
5°	6482.0	6544.2	6559.0	6615.3	6686.4	6778.2	6899.7	7059.7	7225.6	7252.2
7.5°	6022.8	6088.0	6126.5	6239.1	6369.4	6559.0	6757.5	6991.5	7267.1	7305.6
10°	5563.6	5622.9	5673.2	5833.2	6040.6	6322.0	6644.9	6982.7	7353.0	7409.3
12.5°	5279.2	5335.5	5391.8	5531.0	5788.8	6132.4	6570.9	7024.1	7495.2	7575.2
15°	5178.5	5228.8	5273.3	5397.7	5637.7	6028.7	6556.1	7110.0	7675.9	7782.5
17.5°	5193.3	5220.0	5249.6	5344.4	5578.4	5981.3	6582.7	7258.2	7889.2	7984.0
20°	5279.2	5294.0	5297.0	5362.2	5569.5	5975.4	6636.0	7400.4	8090.6	8218.0
22.5°	5388.8	5394.7	5388.8	5433.3	5625.8	6019.8	6707.1	7572.2	8315.8	8434.3
25°	5901.3	5788.8	5646.6	5560.7	5720.6	6105.8	6813.8	7803.3	8561.7	8677.2
27.5°	7492.2	7169.3	6659.7	6088.0	5916.2	6230.2	6961.9	8037.3	8810.5	8914.2
30°	10075.5	9651.9	8786.8	7498.1	6544.2	6490.9	7154.5	8271.4	9074.2	9186.8
32.5°	12664.8	12561.1	11562.7	9779.3	7957.3	7071.5	7474.4	8588.3	9423.8	9512.7
35°	15283.6	15073.3	14255.6	12492.9	10134.8	8253.6	8007.7	9003.1	9883.0	9983.7
37.5°	17289.3	17161.9	16655.3	15203.7	12718.1	10078.5	8920.1	9646.0	10549.5	10662.1
40°	19060.9	19001.6	18829.8	17872.9	15606.6	12466.3	10339.2	10641.4	11473.8	11607.2
42.5°	20453.2	20592.5	20690.2	20423.6	18583.9	15191.8	12247.1	12039.7	12762.5	12898.8
45°	21878.2	21925.6	22319.6	22704.8	21540.5	18041.7	14397.8	13678.0	14365.3	14534.1
47.5°	22793.6	22983.2	23676.5	24354.9	24026.0	20868.0	16708.6	15612.5	16222.8	16539.7
50°	22861.8	23220.2	24174.2	25356.2	25836.1	23558.0	19220.8	17816.6	18465.4	18815.0
52.5°	21727.1	22284.1	23762.4	25492.5	26813.8	25836.1	21819.0	20020.7	20853.2	21309.4
55°	16658.3	17387.0	22213.0	24751.9	26852.3	27563.3	24349.0	22316.7	23513.5	24029.0
57.5°	14513.4	14880.7	17464.1	23466.1	26138.3	28259.5	26636.0	24503.0	26407.9	27047.8
60°	12075.2	12558.1	14646.7	21362.7	25169.6	28327.6	28656.5	27323.3	29545.2	30265.1
62.5°	8206.2	8730.5	10807.3	17748.5	23845.3	28295.0	30312.5	30226.6	33032.1	33805.3
65°	5083.7	5412.5	6781.2	14492.6	21993.7	28330.6	32045.6	33752.0	36711.5	37496.6
67.5°	4017.2	4168.3	4882.2	11127.2	18803.1	27530.7	33775.7	37067.1	40174.7	40796.9
70°	2698.9	2790.7	3552.1	7459.6	13989.0	23839.4	33743.1	38732.0	41958.2	42269.2
72.5°	1422.0	1493.1	2076.7	3454.3	8449.1	16945.6	28443.2	36741.2	40183.6	39715.5
75°	711.0	829.5	1398.3	1753.8	3608.3	9450.4	17662.5	28967.5	31627.9	29814.8
77.5°	539.2	651.8	1155.4	1155.4	1256.1	3181.7	7480.4	15799.1	14572.6	12134.5
80°	343.7	444.4	1010.2	873.9	524.4	808.8	1949.3	4426.0	3095.8	2355.2
82.5°	201.5	290.3	841.4	577.7	293.3	299.2	551.0	942.1	802.8	625.1
85°	80.0	189.6	577.7	228.1	115.5	74.1	165.9	201.5	165.9	124.4
87.5°	0.0	44.4	100.7	0.0	8.9	5.9	11.9	14.8	14.8	11.9
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°
7317.4	0°	7317.4	7317.4	7317.4	7317.4	7317.4	7317.4	7317.4	7317.4	7317.4	7317.4
7323.3	2.5°	7350.0	7355.9	7373.7	7376.7	7335.2	7281.9	7261.1	7252.2	7216.7	7213.7
7370.8	5°	7438.9	7465.6	7438.9	7361.9	7178.2	6920.4	6724.9	6564.9	6419.8	6375.3
7533.7	7.5°	7616.6	7643.3	7563.3	7261.1	6799.0	6286.5	5824.3	5498.4	5205.1	5095.5
7732.2	10°	7871.4	7907.0	7655.2	7044.9	6227.2	5403.6	4621.5	4070.5	3640.9	3466.1
8001.8	12.5°	8191.4	8206.2	7705.5	6716.0	5483.6	4307.5	3199.5	2610.0	2227.8	2085.6
8327.6	15°	8543.9	8523.2	7711.4	6268.7	4470.4	3045.5	2088.6	1715.3	1561.2	1513.8
8653.5	17.5°	8914.2	8828.3	7592.9	5622.9	3359.5	2082.7	1549.4	1460.5	1433.9	1422.0
8976.4	20°	9278.6	9086.0	7376.7	4778.5	2411.5	1555.3	1407.2	1380.5	1365.7	1359.8
9302.3	22.5°	9610.4	9281.6	7006.4	3798.0	1750.8	1374.6	1330.2	1306.5	1279.8	1268.0
9619.3	25°	9933.3	9394.2	6485.0	2882.5	1401.3	1285.7	1250.2	1205.7	1170.2	1155.4
9960.0	27.5°	10247.4	9465.3	5833.2	2133.0	1250.2	1202.8	1137.6	1075.4	1048.7	1042.8
10324.4	30°	10582.1	9489.0	5092.6	1590.9	1158.3	1099.1	1004.3	933.2	918.4	921.3
10816.2	32.5°	10990.9	9524.5	4346.0	1303.5	1081.3	974.7	862.1	788.0	776.2	788.0
11533.1	35°	11479.8	9595.6	3626.1	1199.8	1013.2	847.3	725.8	663.6	651.8	660.6
12451.5	37.5°	12143.4	9711.1	2953.6	1179.1	956.9	740.6	610.3	559.9	559.9	562.9
13577.2	40°	13026.2	10019.2	2352.2	1164.3	927.3	660.6	515.5	494.7	503.6	509.6
15011.1	42.5°	14101.6	10674.0	1946.4	1146.5	894.7	625.1	468.1	459.2	474.0	479.9
16729.4	45°	15307.3	11503.5	1804.2	1116.9	865.1	648.8	447.3	435.5	453.3	456.2
18655.0	47.5°	16554.6	12315.2	1786.4	1084.3	835.4	684.3	441.4	414.8	435.5	438.5
20711.0	50°	17816.6	12845.5	1804.2	1033.9	788.0	684.3	444.4	394.0	411.8	420.7
22844.0	52.5°	19087.5	13088.4	1792.3	924.3	705.1	642.9	444.4	376.2	394.0	399.9
25148.8	55°	20319.9	13041.0	1611.6	761.4	598.4	568.8	432.5	361.4	373.3	376.2
27326.3	57.5°	21294.6	12380.4	1276.8	592.5	485.9	474.0	394.0	343.7	352.5	349.6
29323.0	60°	21804.1	10928.7	912.5	456.2	382.2	373.3	346.6	320.0	325.9	311.1
31014.6	62.5°	21810.1	9009.0	610.3	361.4	305.1	296.3	296.3	287.4	281.4	251.8
32324.1	65°	21345.0	6879.0	405.9	287.4	245.9	231.1	248.9	245.9	225.2	183.7
32724.0	67.5°	20290.3	4509.0	308.1	225.2	189.6	180.7	198.5	207.4	192.6	154.1
31266.4	70°	18121.7	2624.8	254.8	174.8	142.2	133.3	160.0	177.8	160.0	124.4
26724.9	72.5°	15052.6	1416.1	207.4	130.4	97.8	88.9	127.4	145.2	127.4	91.8
17147.1	75°	9767.4	758.4	160.0	85.9	50.4	56.3	94.8	106.7	88.9	59.3
5033.3	77.5°	3279.5	334.8	100.7	41.5	23.7	23.7	56.3	65.2	41.5	20.7
915.4	80°	731.7	139.2	41.5	17.8	8.9	8.9	11.9	11.9	5.9	0.0
281.4	82.5°	240.0	56.3	17.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0
71.1	85°	91.8	20.7	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23.7	87.5°	35.6	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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<u>180°</u>
7317.4
7219.7
6348.7
5051.1
3392.1
2041.2
1513.8
1419.0
1353.9
1265.0
1149.5
1036.9
921.3
785.1
657.7
559.9
509.6
479.9
459.2
441.4
423.6
399.9
376.2
349.6
308.1
242.9
177.8
151.1
<i>118.5</i>
88.9
53.3
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