

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: P957048

Luminaire Tested: **GALN-SB9C-735-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957048
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-SB9C-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 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: 56790 lumens
Efficiency: N/A
Efficacy: 126.3 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

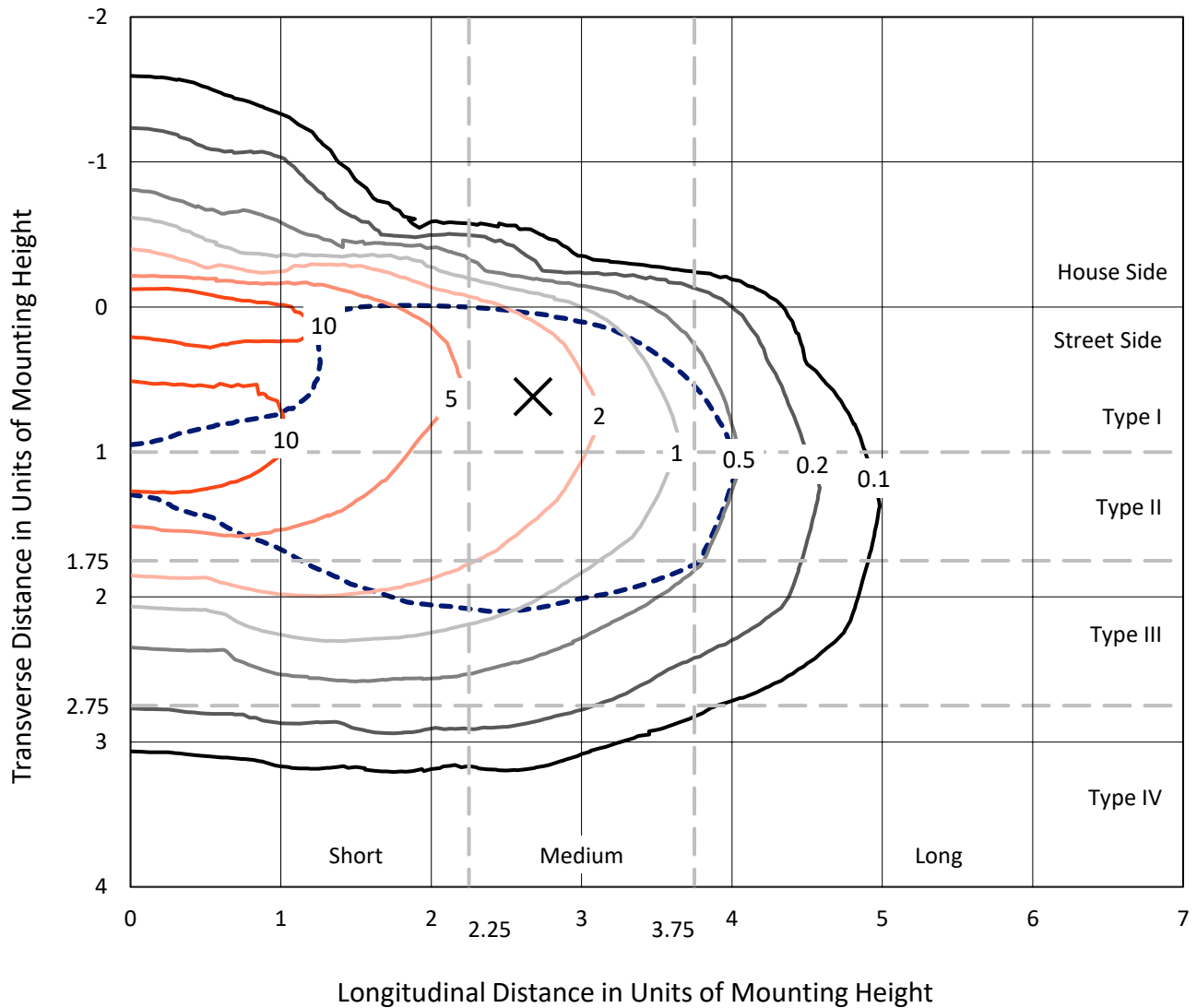
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

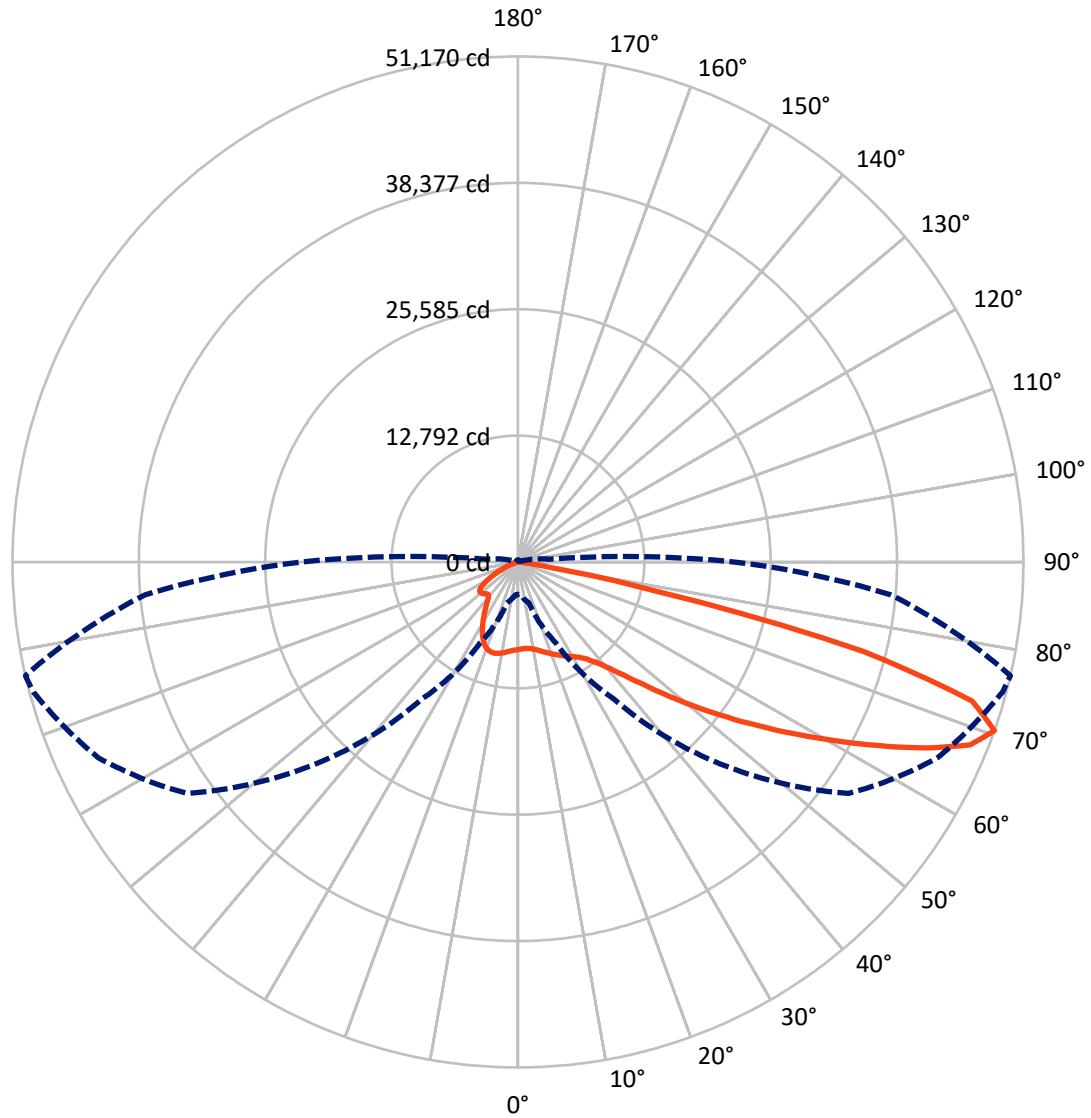
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 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
House Side	Lumens	5986.5	0.0	5986.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	50803.5	0.0	50803.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	56790.0	0.0	56790.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	763.4	1.3
10°-20°	1812.3	3.2
20°-30°	2803.1	4.9
30°-40°	5086.5	9.0
40°-50°	9601.3	16.9
50°-60°	13873.1	24.4
60°-70°	14767.5	26.0
70°-80°	7825.8	13.8
80°-90°	257.0	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°	56790.0	100.0
0°-180°	56790.0	100.0

Coefficient of Utilization



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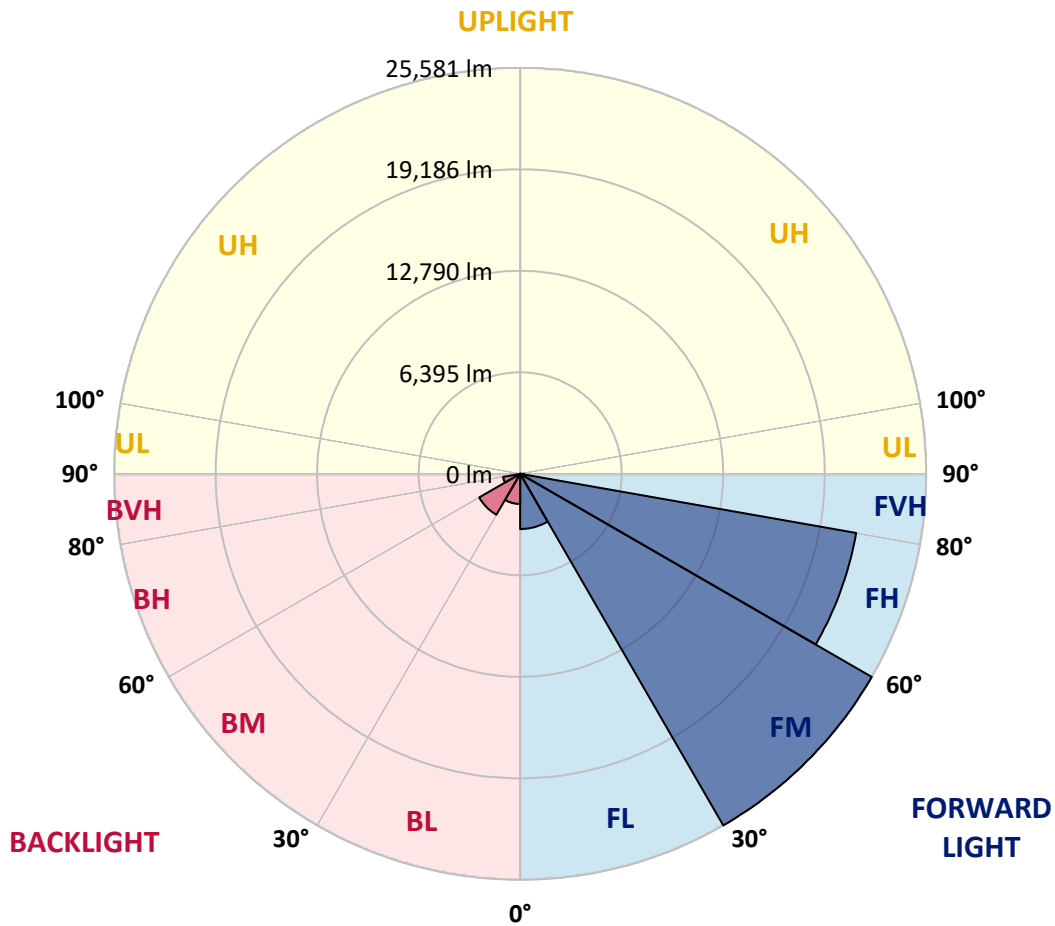
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3476.9	6.1			
FM (30°-60°)	25580.8	45.0			
FH (60°-80°)	21495.8	37.9			G5
FVH (80°-90°)	250.0	0.4			G3/500
BL (0°-30°)	1902.0	3.3	B3/2500		
BM (30°-60°)	2980.1	5.2	B3/5000		
BH (60°-80°)	1097.5	1.9	B3/2500		G3/2500
BVH (80°-90°)	6.9	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°	8858.2	8858.2	8858.2	8858.2	8858.2	8858.2	8858.2	8858.2	8858.2	8858.2
2.5°	8316.7	8392.0	8381.2	8431.4	8449.4	8521.1	8592.8	8689.7	8797.2	8793.7
5°	7846.9	7922.2	7940.1	8008.3	8094.3	8205.5	8352.5	8546.2	8747.0	8779.3
7.5°	7291.0	7369.9	7416.5	7552.8	7710.6	7940.1	8180.4	8463.7	8797.2	8843.9
10°	6735.1	6806.8	6867.8	7061.5	7312.5	7653.2	8044.1	8453.0	8901.3	8969.4
12.5°	6390.8	6459.0	6527.1	6695.7	7007.7	7423.7	7954.5	8503.2	9073.4	9170.2
15°	6268.9	6329.9	6383.7	6534.3	6824.8	7298.2	7936.5	8607.2	9292.2	9421.3
17.5°	6286.8	6319.1	6355.0	6469.7	6753.0	7240.8	7968.8	8786.5	9550.4	9665.1
20°	6390.8	6408.8	6412.3	6491.2	6742.3	7233.6	8033.4	8958.6	9794.2	9948.5
22.5°	6523.5	6530.7	6523.5	6577.3	6810.4	7287.4	8119.4	9166.6	10066.8	10210.3
25°	7144.0	7007.7	6835.5	6731.5	6925.2	7391.4	8248.5	9446.4	10364.5	10504.3
27.5°	9069.8	8678.9	8062.1	7369.9	7161.9	7542.0	8427.9	9729.7	10665.7	10791.2
30°	12197.1	11684.2	10637.0	9077.0	7922.2	7857.6	8661.0	10013.0	10984.9	11121.2
32.5°	15331.5	15206.0	13997.4	11838.4	9632.9	8560.5	9048.3	10396.7	11408.1	11515.7
35°	18501.8	18247.2	17257.4	15123.5	12268.8	9991.5	9693.8	10898.8	11964.0	12085.9
37.5°	20929.8	20775.6	20162.3	18405.0	15396.1	12200.7	10798.4	11677.1	12770.9	12907.2
40°	23074.4	23002.7	22794.7	21636.3	18892.7	15091.2	12516.3	12882.1	13889.8	14051.2
42.5°	24760.0	24928.5	25046.9	24724.1	22497.0	18390.7	14825.9	14574.8	15449.9	15614.8
45°	26485.0	26542.4	27019.3	27485.6	26076.1	21840.7	17429.5	16558.0	17390.1	17594.5
47.5°	27593.2	27822.7	28661.9	29483.1	29085.1	25262.0	20226.9	18899.9	19638.7	20022.4
50°	27675.6	28109.6	29264.4	30695.3	31276.3	28518.4	23268.1	21568.1	22353.5	22776.7
52.5°	26302.1	26976.3	28765.9	30860.3	32459.8	31276.3	26413.3	24236.4	25244.1	25796.4
55°	20165.9	21048.1	26890.2	29963.7	32506.4	33367.1	29476.0	27015.8	28464.6	29088.7
57.5°	17569.4	18014.1	21141.4	28407.3	31642.1	34209.9	32244.6	29662.5	31968.5	32743.1
60°	14617.8	15202.4	17730.8	25861.0	30469.4	34292.4	34690.5	33076.6	35766.4	36637.9
62.5°	9934.1	10568.9	13082.9	21485.7	28866.3	34253.0	36695.2	36591.2	39987.5	40923.5
65°	6154.1	6552.2	8209.1	17544.3	26624.9	34296.0	38793.2	40859.0	44441.7	45392.1
67.5°	4863.1	5046.0	5910.3	13470.2	22762.4	33327.7	40887.7	44872.1	48634.1	49387.2
70°	3267.1	3378.3	4300.0	9030.4	16934.6	28859.1	40848.2	46887.6	50793.1	51169.6
72.5°	1721.4	1807.5	2514.0	4181.7	10228.2	20513.8	34432.3	44477.6	48644.9	48078.2
75°	860.7	1004.2	1692.7	2123.1	4368.1	11440.4	21381.6	35067.1	38287.6	36092.7
77.5°	652.7	789.0	1398.7	1398.7	1520.6	3851.7	9055.5	19125.9	17641.1	14689.6
80°	416.0	537.9	1222.9	1058.0	634.8	979.1	2359.8	5358.0	3747.7	2851.1
82.5°	243.9	351.5	1018.5	699.3	355.0	362.2	667.1	1140.5	971.9	756.7
85°	96.8	229.5	699.3	276.1	139.9	89.7	200.8	243.9	200.8	150.6
87.5°	0.0	53.8	121.9	0.0	10.8	7.2	14.3	17.9	17.9	14.3
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°
8858.2	0°	8858.2	8858.2	8858.2	8858.2	8858.2	8858.2	8858.2	8858.2	8858.2	8858.2
8865.4	2.5°	8897.7	8904.8	8926.4	8929.9	8879.7	8815.2	8790.1	8779.3	8736.3	8732.7
8922.8	5°	9005.3	9037.5	9005.3	8912.0	8689.7	8377.6	8141.0	7947.3	7771.6	7717.8
9120.0	7.5°	9220.4	9252.7	9155.9	8790.1	8230.6	7610.2	7050.7	6656.2	6301.2	6168.5
9360.3	10°	9528.9	9571.9	9267.1	8528.3	7538.4	6541.5	5594.7	4927.6	4407.6	4196.0
9686.7	12.5°	9916.2	9934.1	9328.0	8130.2	6638.3	5214.5	3873.2	3159.5	2696.9	2524.8
10081.2	15°	10343.0	10317.8	9335.2	7588.7	5411.8	3686.7	2528.4	2076.5	1890.0	1832.6
10475.6	17.5°	10791.2	10687.2	9191.7	6806.8	4066.9	2521.2	1875.6	1768.1	1735.8	1721.4
10866.6	20°	11232.4	10999.2	8929.9	5784.7	2919.3	1882.8	1703.5	1671.2	1653.3	1646.1
11261.0	22.5°	11634.0	11235.9	8481.7	4597.7	2119.5	1664.1	1610.3	1581.6	1549.3	1534.9
11644.8	25°	12024.9	11372.2	7850.5	3489.5	1696.3	1556.5	1513.4	1459.6	1416.6	1398.7
12057.2	27.5°	12405.1	11458.3	7061.5	2582.2	1513.4	1456.0	1377.1	1301.8	1269.6	1262.4
12498.3	30°	12810.3	11487.0	6164.9	1925.9	1402.3	1330.5	1215.8	1129.7	1111.8	1115.3
13093.7	32.5°	13305.3	11530.0	5261.1	1578.0	1309.0	1179.9	1043.6	954.0	939.6	954.0
13961.5	35°	13897.0	11616.1	4389.7	1452.5	1226.5	1025.7	878.6	803.3	789.0	799.7
15073.3	37.5°	14700.3	11756.0	3575.6	1427.4	1158.4	896.6	738.8	677.8	677.8	681.4
16436.1	40°	15769.1	12128.9	2847.5	1409.4	1122.5	799.7	624.0	598.9	609.7	616.8
18171.9	42.5°	17070.9	12921.5	2356.2	1387.9	1083.1	756.7	566.6	555.9	573.8	581.0
20252.0	45°	18530.5	13925.7	2184.1	1352.0	1047.2	785.4	541.5	527.2	548.7	552.3
22583.1	47.5°	20040.4	14908.3	2162.6	1312.6	1011.3	828.4	534.4	502.1	527.2	530.8
25072.0	50°	21568.1	15550.3	2184.1	1251.6	954.0	828.4	537.9	477.0	498.5	509.3
27654.1	52.5°	23106.7	15844.4	2169.7	1118.9	853.5	778.2	537.9	455.5	477.0	484.2
30444.3	55°	24598.6	15787.0	1951.0	921.7	724.4	688.6	523.6	437.5	451.9	455.5
33080.2	57.5°	25778.5	14987.2	1545.7	717.3	588.2	573.8	477.0	416.0	426.8	423.2
35497.4	60°	26395.3	13229.9	1104.6	552.3	462.6	451.9	419.6	387.3	394.5	376.6
37545.2	62.5°	26402.5	10906.0	738.8	437.5	369.4	358.6	358.6	347.9	340.7	304.8
39130.4	65°	25839.4	8327.4	491.3	347.9	297.7	279.7	301.3	297.7	272.6	222.4
39614.5	67.5°	24562.7	5458.4	373.0	272.6	229.5	218.8	240.3	251.0	233.1	186.5
37850.0	70°	21937.5	3177.5	308.4	211.6	172.1	161.4	193.7	215.2	193.7	150.6
32352.2	72.5°	18222.1	1714.3	251.0	157.8	118.3	107.6	154.2	175.7	154.2	111.2
20757.6	75°	11824.1	918.1	193.7	104.0	61.0	68.1	114.8	129.1	107.6	71.7
6093.2	77.5°	3970.1	405.3	121.9	50.2	28.7	28.7	68.1	78.9	50.2	25.1
1108.2	80°	885.8	168.6	50.2	21.5	10.8	10.8	14.3	14.3	7.2	0.0
340.7	82.5°	290.5	68.1	21.5	7.2	0.0	0.0	0.0	0.0	0.0	0.0
86.1	85°	111.2	25.1	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28.7	87.5°	43.0	3.6	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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180°
8858.2
8739.9
7685.5
6114.7
4106.3
2471.0
1832.6
1717.8
1638.9
1531.4
1391.5
1255.2
1115.3
950.4
796.2
677.8
616.8
581.0
555.9
534.4
512.8
484.2
455.5
423.2
373.0
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215.2
182.9
143.5
107.6
64.6
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