

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: P956229

Luminaire Tested: **GALN-SB8D-940-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956229
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-940-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 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: 49642 lumens
Efficiency: N/A
Efficacy: 84.9 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

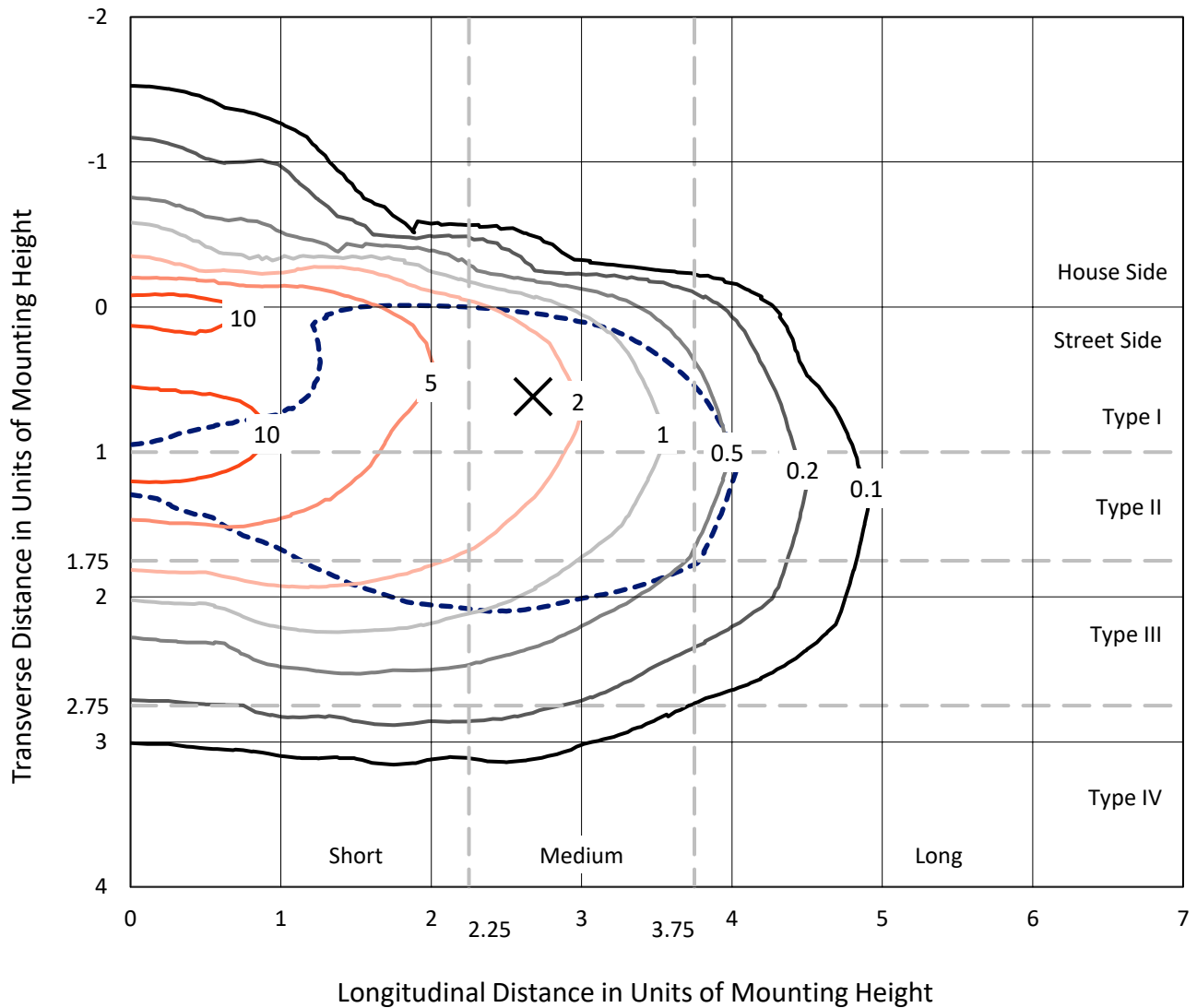
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

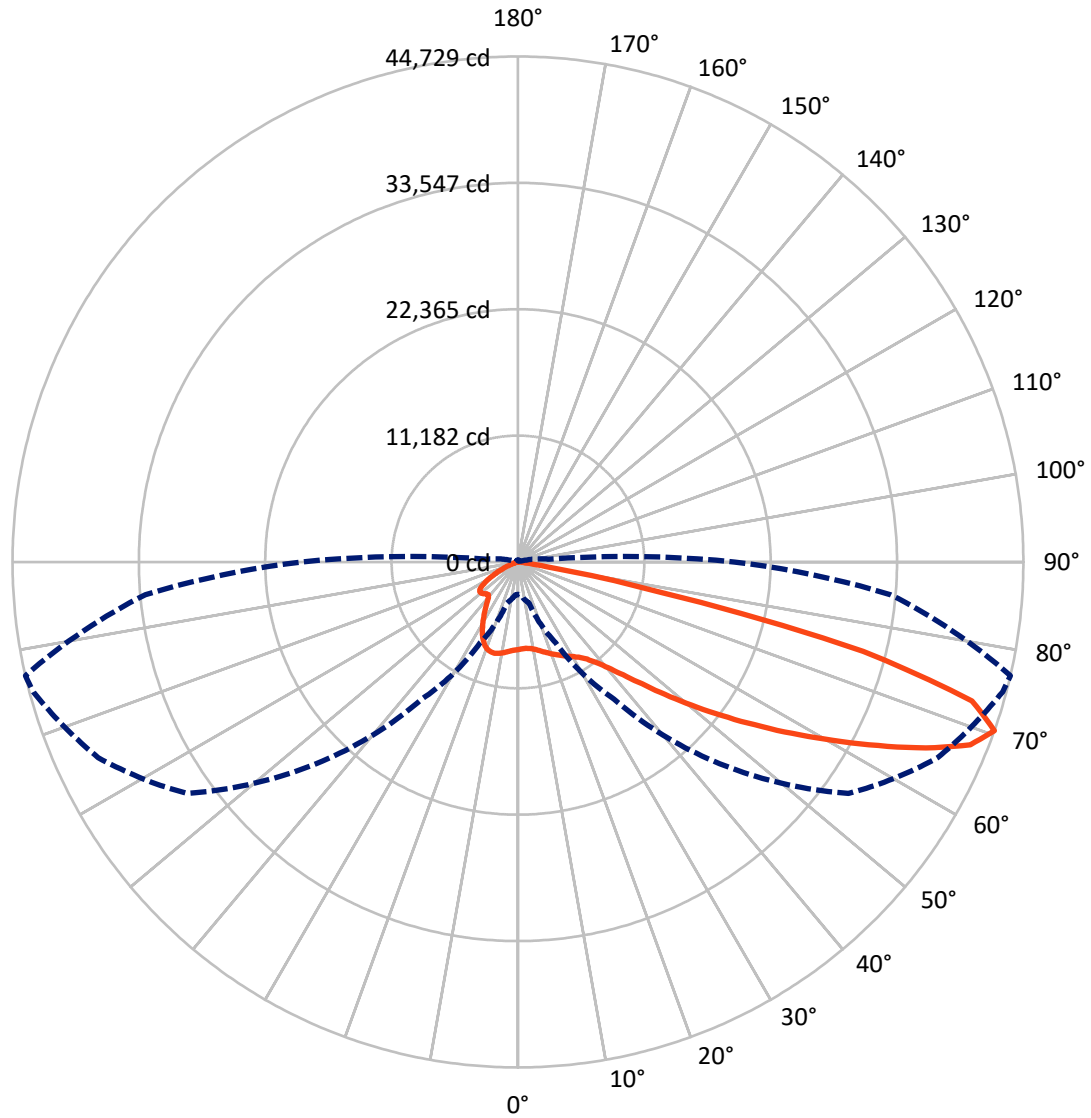
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 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	5233.0	0.0	5233.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	44409.0	0.0	44409.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	49642.0	0.0	49642.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	667.3	1.3
10°-20°	1584.2	3.2
20°-30°	2450.3	4.9
30°-40°	4446.2	9.0
40°-50°	8392.8	16.9
50°-60°	12126.9	24.4
60°-70°	12908.8	26.0
70°-80°	6840.8	13.8
80°-90°	224.6	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°	49642.0	100.0
0°-180°	49642.0	100.0

Coefficient of Utilization



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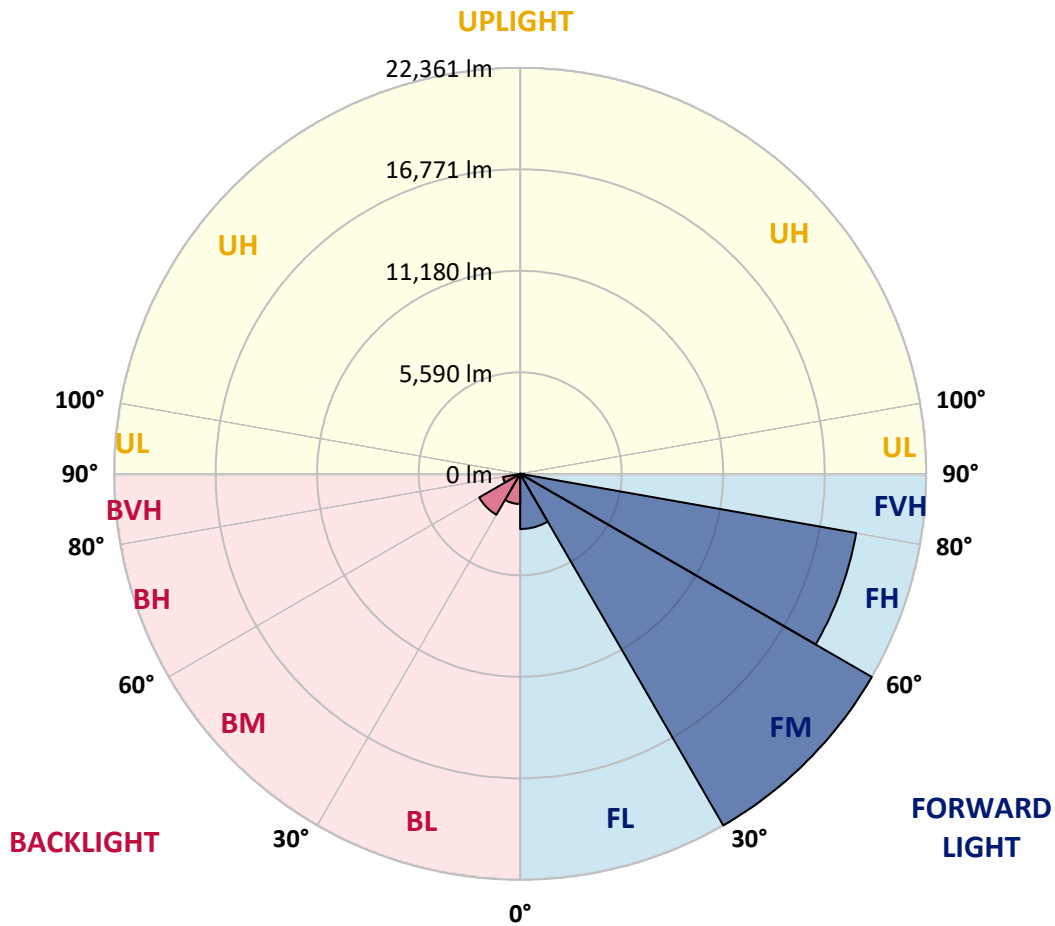
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3039.3	6.1			
FM (30°-60°)	22361.0	45.0			
FH (60°-80°)	18790.2	37.9			G5
FVH (80°-90°)	218.6	0.4			G2/225
BL (0°-30°)	1662.6	3.3	B3/2500		
BM (30°-60°)	2605.0	5.2	B3/5000		
BH (60°-80°)	959.3	1.9	B2/1000		G2/1000
BVH (80°-90°)	6.0	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°	7743.3	7743.3	7743.3	7743.3	7743.3	7743.3	7743.3	7743.3	7743.3	7743.3
2.5°	7269.9	7335.7	7326.3	7370.2	7385.9	7448.6	7511.3	7595.9	7690.0	7686.8
5°	6859.2	6925.0	6940.7	7000.3	7075.5	7172.7	7301.2	7470.5	7646.1	7674.3
7.5°	6373.3	6442.3	6483.0	6602.1	6740.1	6940.7	7150.8	7398.4	7690.0	7730.7
10°	5887.4	5950.1	6003.4	6172.7	6392.1	6689.9	7031.6	7389.0	7780.9	7840.4
12.5°	5586.4	5646.0	5705.6	5852.9	6125.6	6489.3	6953.3	7432.9	7931.4	8016.0
15°	5479.8	5533.1	5580.2	5711.8	5965.8	6379.6	6937.6	7523.8	8122.6	8235.4
17.5°	5495.5	5523.7	5555.1	5655.4	5903.1	6329.4	6965.8	7680.6	8348.3	8448.6
20°	5586.4	5602.1	5605.2	5674.2	5893.7	6323.1	7022.2	7831.0	8561.5	8696.3
22.5°	5702.4	5708.7	5702.4	5749.4	5953.2	6370.2	7097.5	8012.9	8799.7	8925.1
25°	6244.8	6125.6	5975.2	5884.2	6053.5	6461.1	7210.3	8257.4	9059.9	9182.2
27.5°	7928.2	7586.5	7047.3	6442.3	6260.4	6592.7	7367.1	8505.0	9323.3	9433.0
30°	10661.9	10213.6	9298.2	7934.5	6925.0	6868.6	7570.8	8752.7	9602.3	9721.4
32.5°	13401.8	13292.1	12235.6	10348.4	8420.4	7483.1	7909.4	9088.1	9972.2	10066.2
35°	16173.1	15950.5	15085.2	13220.0	10724.6	8733.9	8473.7	9527.0	10458.1	10564.7
37.5°	18295.4	18160.6	17624.5	16088.4	13458.2	10665.0	9439.2	10207.3	11163.5	11282.6
40°	20170.1	20107.4	19925.6	18913.0	16514.8	13191.7	10940.9	11260.6	12141.5	12282.6
42.5°	21643.5	21790.8	21894.3	21612.1	19665.4	16075.9	12959.8	12740.3	13505.2	13649.4
45°	23151.4	23201.6	23618.5	24026.0	22794.0	19091.7	15235.7	14473.9	15201.2	15379.9
47.5°	24120.1	24320.7	25054.3	25772.2	25424.2	22082.4	17681.0	16521.0	17166.8	17502.3
50°	24192.2	24571.5	25581.0	26831.8	27339.6	24928.9	20339.4	18853.4	19540.0	19909.9
52.5°	22991.5	23580.9	25145.2	26976.0	28374.2	27339.6	23088.7	21185.8	22066.7	22549.5
55°	17627.7	18398.9	23505.6	26192.3	28414.9	29167.3	25765.9	23615.4	24881.9	25427.3
57.5°	15358.0	15746.7	18480.4	24831.7	27659.4	29904.0	28186.1	25928.9	27944.7	28621.8
60°	12777.9	13288.9	15499.1	22605.9	26634.3	29976.1	30324.1	28913.4	31264.6	32026.4
62.5°	8683.7	9238.6	11436.2	18781.3	25233.0	29941.6	32076.5	31985.6	34954.4	35772.6
65°	5379.5	5727.5	7175.8	15336.0	23273.7	29979.3	33910.4	35716.2	38847.9	39678.7
67.5°	4251.0	4410.8	5166.4	11774.8	19897.3	29132.8	35741.2	39224.1	42512.7	43171.0
70°	2855.9	2953.1	3758.8	7893.7	14803.1	25226.7	35706.8	40986.0	44399.9	44729.1
72.5°	1504.8	1580.0	2197.6	3655.3	8940.8	17931.7	30098.4	38879.3	42522.1	42026.8
75°	752.4	877.8	1479.7	1855.9	3818.3	10000.4	18690.4	30653.3	33468.4	31549.8
77.5°	570.6	689.7	1222.6	1222.6	1329.2	3366.9	7915.7	16718.5	15420.7	12840.6
80°	363.7	470.2	1069.0	924.8	554.9	855.8	2062.8	4683.6	3276.0	2492.3
82.5°	213.2	307.2	890.3	611.3	310.4	316.6	583.1	996.9	849.6	661.5
85°	84.6	200.6	611.3	241.4	122.3	78.4	175.6	213.2	175.6	131.7
87.5°	0.0	47.0	106.6	0.0	9.4	6.3	12.5	15.7	15.7	12.5
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°
7743.3	0°	7743.3	7743.3	7743.3	7743.3	7743.3	7743.3	7743.3	7743.3	7743.3	7743.3
7749.5	2.5°	7777.7	7784.0	7802.8	7806.0	7762.1	7705.6	7683.7	7674.3	7636.7	7633.5
7799.7	5°	7871.8	7900.0	7871.8	7790.3	7595.9	7323.2	7116.3	6947.0	6793.4	6746.4
7972.1	7.5°	8059.9	8088.1	8003.5	7683.7	7194.6	6652.3	6163.3	5818.4	5508.1	5392.1
8182.1	10°	8329.5	8367.1	8100.6	7454.8	6589.6	5718.1	4890.5	4307.4	3852.8	3667.9
8467.4	12.5°	8668.1	8683.7	8153.9	7106.9	5802.7	4558.2	3385.7	2761.9	2357.5	2207.0
8812.3	15°	9041.1	9019.2	8160.2	6633.5	4730.6	3222.7	2210.1	1815.1	1652.1	1601.9
9157.1	17.5°	9433.0	9342.1	8034.8	5950.1	3555.0	2203.8	1639.6	1545.5	1517.3	1504.8
9498.8	20°	9818.6	9614.8	7806.0	5056.6	2551.8	1645.8	1489.1	1460.9	1445.2	1438.9
9843.7	22.5°	10169.7	9821.7	7414.1	4019.0	1852.7	1454.6	1407.6	1382.5	1354.3	1341.7
10179.1	25°	10511.4	9940.8	6862.3	3050.3	1482.8	1360.6	1322.9	1275.9	1238.3	1222.6
10539.6	27.5°	10843.7	10016.1	6172.7	2257.1	1322.9	1272.8	1203.8	1138.0	1109.8	1103.5
10925.2	30°	11197.9	10041.2	5388.9	1683.5	1225.8	1163.1	1062.7	987.5	971.8	975.0
11445.6	32.5°	11630.6	10078.8	4598.9	1379.4	1144.2	1031.4	912.3	833.9	821.3	833.9
12204.2	35°	12147.8	10154.0	3837.1	1269.6	1072.1	896.6	768.1	702.2	689.7	699.1
13176.1	37.5°	12850.0	10276.3	3125.5	1247.7	1012.6	783.7	645.8	592.5	592.5	595.6
14367.3	40°	13784.2	10602.3	2489.1	1232.0	981.2	699.1	545.5	523.5	532.9	539.2
15884.6	42.5°	14922.2	11295.1	2059.6	1213.2	946.7	661.5	495.3	485.9	501.6	507.9
17702.9	45°	16198.1	12172.9	1909.2	1181.9	915.4	686.5	473.4	460.8	479.6	482.8
19740.6	47.5°	17517.9	13031.9	1890.4	1147.4	884.0	724.2	467.1	438.9	460.8	464.0
21916.2	50°	18853.4	13593.0	1909.2	1094.1	833.9	724.2	470.2	416.9	435.8	445.2
24173.4	52.5°	20198.3	13850.1	1896.6	978.1	746.1	680.3	470.2	398.1	416.9	423.2
26612.3	55°	21502.4	13799.9	1705.4	805.7	633.3	601.9	457.7	382.5	395.0	398.1
28916.5	57.5°	22533.8	13100.8	1351.2	627.0	514.1	501.6	416.9	363.7	373.1	369.9
31029.5	60°	23073.0	11564.7	965.6	482.8	404.4	395.0	366.8	338.6	344.8	329.2
32819.5	62.5°	23079.3	9533.3	645.8	382.5	322.9	313.5	313.5	304.1	297.8	266.5
34205.1	65°	22587.1	7279.3	429.5	304.1	260.2	244.5	263.3	260.2	238.3	194.4
34628.3	67.5°	21471.1	4771.4	326.0	238.3	200.6	191.2	210.0	219.4	203.8	163.0
33086.0	70°	19176.3	2777.5	269.6	185.0	150.5	141.1	169.3	188.1	169.3	131.7
28280.1	72.5°	15928.5	1498.5	219.4	137.9	103.5	94.0	134.8	153.6	134.8	97.2
18144.9	75°	10335.8	802.5	169.3	90.9	53.3	59.6	100.3	112.9	94.0	62.7
5326.2	77.5°	3470.4	354.2	106.6	43.9	25.1	25.1	59.6	69.0	43.9	21.9
968.7	80°	774.3	147.3	43.9	18.8	9.4	9.4	12.5	12.5	6.3	0.0
297.8	82.5°	253.9	59.6	18.8	6.3	0.0	0.0	0.0	0.0	0.0	0.0
75.2	85°	97.2	21.9	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.1	87.5°	37.6	3.1	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°
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7743.3
7639.8
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