

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: P957592

Luminaire Tested: **GALN-SB9D-927-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957592
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-927-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43117 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

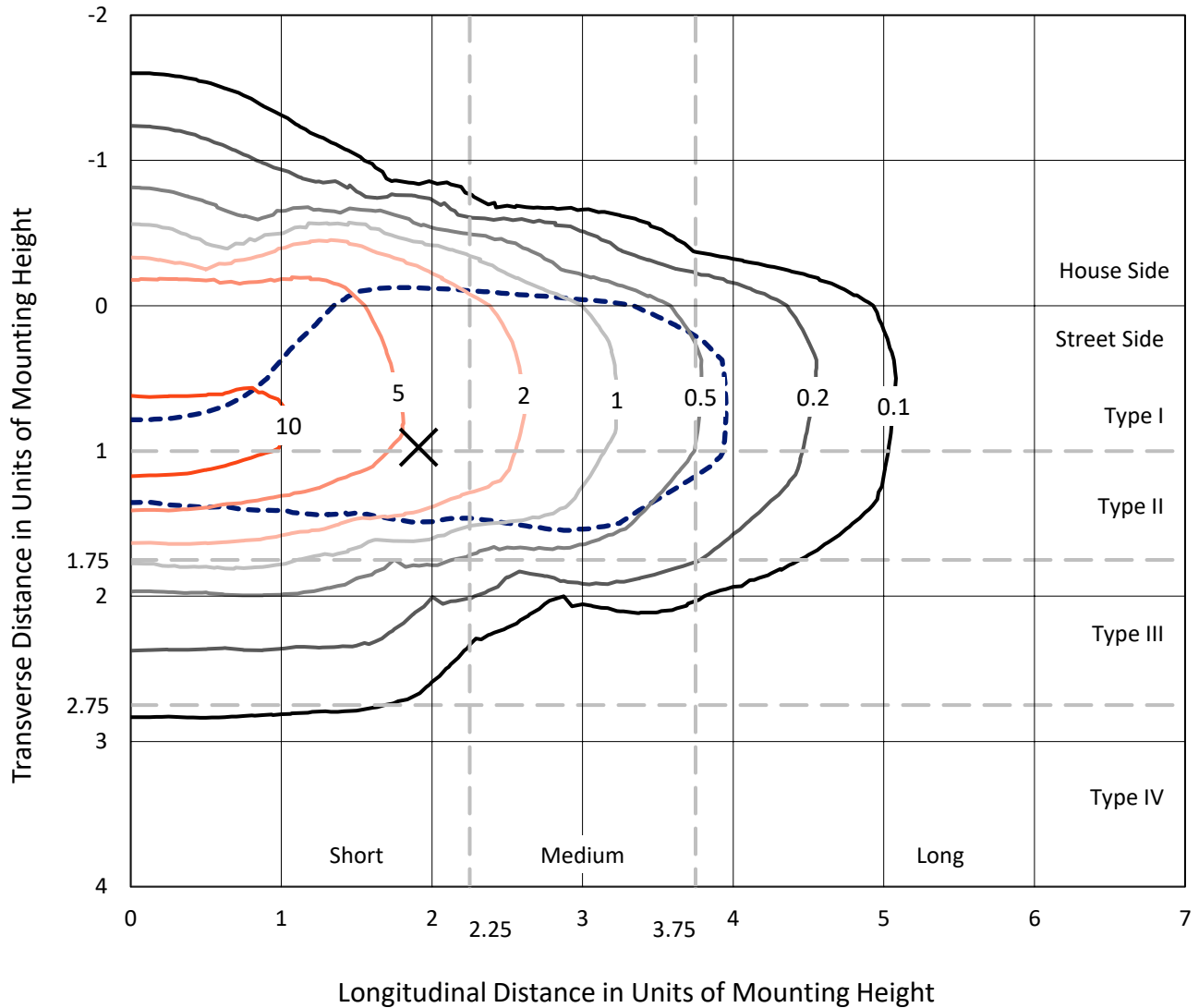
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

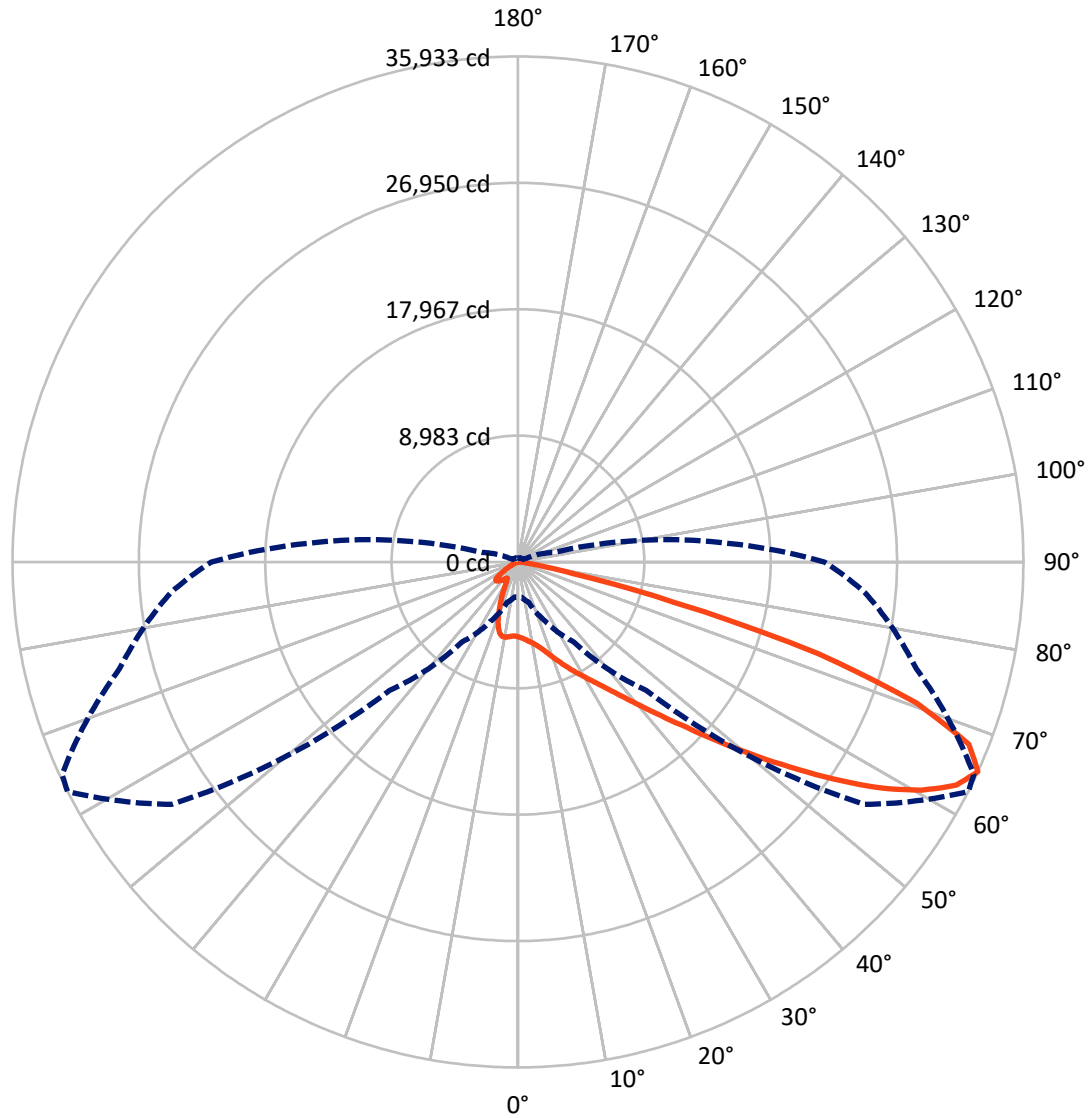
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6337.9	0.0	6337.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	36779.1	0.0	36779.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	43117.0	0.0	43117.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.4	1.2
10°-20°	1391.2	3.2
20°-30°	2422.3	5.6
30°-40°	4366.0	10.1
40°-50°	8659.2	20.1
50°-60°	11795.3	27.4
60°-70°	9414.9	21.8
70°-80°	4260.5	9.9
80°-90°	306.2	0.7
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°	43117.0	100.0
0°-180°	43117.0	100.0

Coefficient of Utilization



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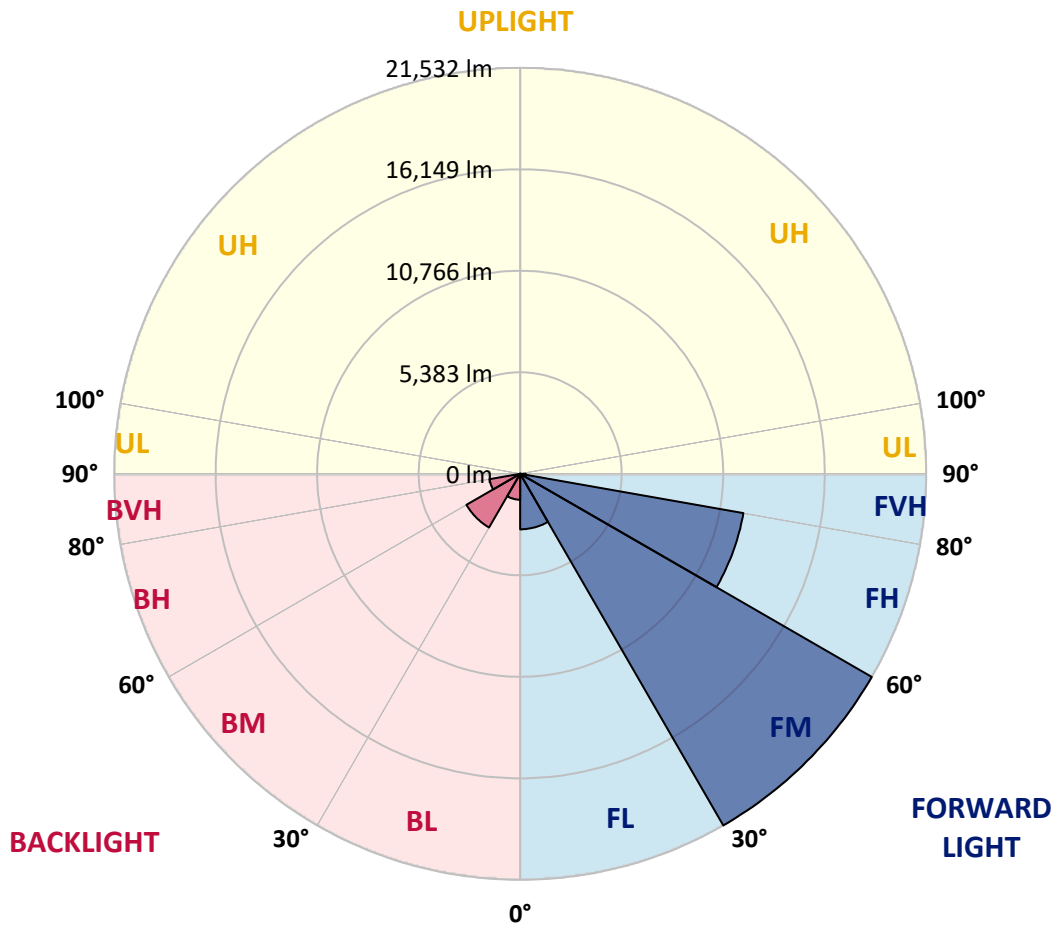
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2943.3	6.8			
FM (30°-60°)	21531.5	49.9			
FH (60°-80°)	12020.8	27.9			G5
FVH (80°-90°)	283.5	0.7			G3/500
BL (0°-30°)	1371.6	3.2	B3/2500		
BM (30°-60°)	3289.0	7.6	B3/5000		
BH (60°-80°)	1654.6	3.8	B3/2500		G3/2500
BVH (80°-90°)	22.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	5321.5	5321.5	5321.5	5321.5	5321.5	5321.5	5321.5	5321.5	5321.5	5321.5
2.5°	5446.0	5431.2	5452.0	5443.1	5437.1	5425.3	5419.3	5413.4	5401.5	5392.6
5°	5460.9	5452.0	5472.7	5490.5	5508.3	5526.1	5535.0	5546.9	5535.0	5511.3
7.5°	5336.3	5330.4	5374.8	5428.2	5508.3	5576.5	5650.7	5692.2	5695.2	5686.3
10°	5327.4	5312.6	5357.0	5422.3	5526.1	5647.7	5778.3	5867.2	5879.1	5917.7
12.5°	5466.8	5452.0	5514.3	5585.4	5692.2	5819.8	5980.0	6104.5	6122.3	6175.7
15°	5701.1	5680.4	5751.6	5843.5	5980.0	6125.3	6294.4	6407.1	6421.9	6487.2
17.5°	5974.0	5953.3	6036.3	6134.2	6282.5	6481.3	6677.0	6801.6	6819.4	6860.9
20°	6324.0	6297.3	6362.6	6451.6	6608.8	6846.1	7080.4	7258.4	7255.4	7255.4
22.5°	6730.4	6688.9	6745.3	6816.4	6964.8	7252.5	7563.9	7774.5	7774.5	7691.5
25°	7166.5	7124.9	7187.2	7252.5	7383.0	7709.3	8074.1	8335.2	8347.0	8204.6
27.5°	7712.2	7658.9	7706.3	7783.4	7860.6	8192.8	8625.9	8928.4	8934.3	8714.8
30°	8762.3	8611.0	8462.7	8379.7	8415.3	8744.5	9207.2	9542.4	9572.1	9269.5
32.5°	10684.4	10654.8	10132.7	9450.5	9094.5	9337.8	9856.8	10260.3	10278.1	9889.5
35°	13671.4	13635.9	12796.4	11497.2	10337.4	10132.7	10645.9	11123.4	11111.6	10672.6
37.5°	17236.9	17204.2	16097.8	14359.6	12482.0	11334.0	11663.3	12164.6	12238.7	11663.3
40°	20283.2	20161.6	19461.6	17785.6	15329.6	13327.4	13110.8	13443.0	13520.2	12837.9
42.5°	22591.0	22487.1	22131.2	21084.1	18776.4	16275.8	14816.4	14944.0	15030.0	14211.3
45°	23786.4	23762.6	23905.0	23807.1	22288.4	19894.6	17254.7	16723.7	16756.3	15733.0
47.5°	23955.4	23943.6	24593.2	25512.7	25308.0	23976.2	20384.1	18942.5	18826.8	17450.4
50°	22958.8	22935.0	24180.9	25904.3	27325.1	27405.2	23937.6	21443.0	21187.9	19227.2
52.5°	19776.0	19770.1	21816.8	24685.1	28034.0	30407.0	27449.7	24189.8	23762.6	21107.8
55°	15216.9	15326.6	17672.9	21063.3	26740.7	31851.6	30602.8	27239.1	26583.5	23000.3
57.5°	10779.4	10939.5	13259.1	16278.8	22730.4	30997.3	32735.5	30294.3	29588.3	24886.8
60°	5790.1	5932.5	8255.1	11859.1	16910.6	27811.6	33859.7	32946.1	32278.7	26678.5
62.5°	3449.7	3497.2	4458.3	7655.9	11437.9	21247.2	33382.2	34966.2	34417.4	28182.3
65°	2476.8	2485.7	2969.2	4674.8	6944.0	12909.1	30033.3	35933.2	35764.1	29315.4
67.5°	2085.3	2079.3	2281.0	3105.7	4731.2	6466.4	23018.1	34565.7	35283.5	30033.3
70°	1788.6	1797.5	2034.8	2275.1	3556.5	3660.4	11443.8	30095.6	31626.2	30223.1
72.5°	1331.8	1361.5	1581.0	2073.4	2684.5	2518.3	3951.0	22315.1	25082.6	28476.0
75°	940.3	955.1	1112.3	1744.2	2002.2	1833.1	2017.0	11535.7	15083.4	21831.6
77.5°	723.8	750.5	842.4	1219.1	1972.6	1287.4	1234.0	3992.6	6134.2	13187.9
80°	391.5	439.0	608.1	881.0	1385.2	910.6	611.0	1589.9	2079.3	6166.8
82.5°	201.7	225.4	424.2	634.8	789.0	795.0	302.6	661.5	857.2	1904.3
85°	80.1	97.9	284.8	350.0	406.4	391.5	136.4	267.0	308.5	528.0
87.5°	17.8	29.7	103.8	80.1	77.1	83.1	32.6	62.3	59.3	62.3
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°
5321.5	0°	5321.5	5321.5	5321.5	5321.5	5321.5	5321.5	5321.5	5321.5	5321.5	5321.5
5357.0	2.5°	5354.1	5342.2	5309.6	5274.0	5232.5	5208.7	5193.9	5190.9	5170.2	5155.3
5475.7	5°	5443.1	5431.2	5368.9	5294.8	5214.7	5152.4	5093.1	5039.7	4962.5	4947.7
5647.7	7.5°	5621.0	5588.4	5487.6	5386.7	5235.4	5054.5	4835.0	4582.9	4357.4	4289.2
5876.1	10°	5840.5	5796.1	5668.5	5490.5	5155.3	4662.9	4132.0	3639.6	3248.0	3138.3
6146.1	12.5°	6089.7	6051.1	5882.1	5552.8	4820.2	3927.3	3114.6	2503.5	2123.8	2028.9
6433.8	15°	6386.3	6330.0	6095.6	5457.9	4221.0	2984.0	2138.7	1776.8	1640.3	1622.5
6763.0	17.5°	6700.8	6608.8	6285.5	5116.8	3414.2	2120.9	1652.2	1548.4	1489.1	1471.3
7095.3	20°	6988.5	6869.8	6398.2	4600.7	2551.0	1652.2	1480.2	1411.9	1358.5	1337.8
7427.5	22.5°	7276.2	7107.1	6398.2	3897.7	1913.2	1465.3	1358.5	1296.3	1234.0	1207.3
7783.4	25°	7575.8	7350.4	6285.5	3114.6	1539.5	1343.7	1242.9	1174.6	1121.2	1088.6
8121.6	27.5°	7866.5	7555.0	6027.4	2373.0	1370.4	1236.9	1136.1	1070.8	1020.4	996.7
8489.4	30°	8142.4	7756.7	5665.5	1800.5	1260.7	1133.1	1038.2	981.8	931.4	907.7
8967.0	32.5°	8516.1	8011.8	5279.9	1477.2	1165.7	1035.2	949.2	895.8	851.3	833.5
9586.9	35°	9035.2	8388.6	4947.7	1450.5	1085.6	955.1	869.1	818.7	774.2	759.4
10387.8	37.5°	9770.8	8996.6	4772.7	1628.5	1020.4	883.9	803.9	750.5	708.9	697.1
11405.2	40°	10678.5	9821.3	4867.6	1806.4	975.9	821.7	744.5	691.1	655.5	640.7
12573.9	42.5°	11755.2	10838.7	5392.6	1942.9	946.2	768.3	688.2	628.8	605.1	599.2
13899.8	45°	12992.2	11957.0	6196.5	2088.2	898.8	717.8	631.8	587.3	569.5	566.6
15341.4	47.5°	14398.2	13185.0	7127.9	2269.2	851.3	670.4	587.3	557.7	542.8	536.9
16845.3	50°	15792.3	14421.9	8086.0	2370.0	812.8	625.9	551.7	528.0	516.1	513.2
18435.2	52.5°	17251.7	15694.4	8860.2	2275.1	780.1	590.3	522.1	504.3	492.4	489.4
19900.6	55°	18642.9	16723.7	8993.7	1931.0	714.9	554.7	489.4	480.5	465.7	465.7
21386.7	57.5°	19841.2	17239.8	8050.4	1417.9	649.6	501.3	456.8	447.9	436.0	433.1
22727.4	60°	20941.7	17091.5	6214.3	955.1	578.4	447.9	415.3	409.3	397.5	382.6
23893.1	62.5°	21561.7	16439.0	4250.6	622.9	507.2	391.5	367.8	364.8	338.2	308.5
24756.3	65°	21796.0	15098.2	2651.8	453.8	424.2	335.2	317.4	311.5	272.9	240.3
25245.8	67.5°	21591.3	12891.3	1337.8	358.9	335.2	278.8	261.0	261.0	234.3	204.7
25216.1	70°	20772.6	9664.0	563.6	287.7	258.1	213.6	213.6	225.4	198.7	166.1
23908.0	72.5°	18995.9	6502.0	299.6	219.5	192.8	151.3	175.0	183.9	157.2	124.6
19568.4	75°	15101.2	3965.9	207.6	163.1	121.6	106.8	133.5	139.4	106.8	83.1
13416.3	77.5°	10328.5	2278.1	139.4	103.8	77.1	62.3	92.0	86.0	56.4	38.6
5173.1	80°	4535.4	949.2	80.1	47.5	29.7	23.7	32.6	23.7	17.8	11.9
708.9	82.5°	531.0	222.5	29.7	17.8	11.9	5.9	3.0	0.0	0.0	0.0
216.5	85°	109.8	26.7	14.8	5.9	3.0	0.0	0.0	0.0	0.0	0.0
38.6	87.5°	20.8	5.9	3.0	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>
5321.5
5170.2
4941.8
4256.6
3096.8
2002.2
1604.7
1462.4
1325.9
1192.4
1076.7
996.7
910.6
833.5
759.4
694.1
637.7
599.2
563.6
536.9
513.2
489.4
462.7
430.1
379.7
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237.3
201.7
163.1
124.6
80.1
41.5
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