

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: P956519

Luminaire Tested: **GALN-SB9A-927-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-927-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21057 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

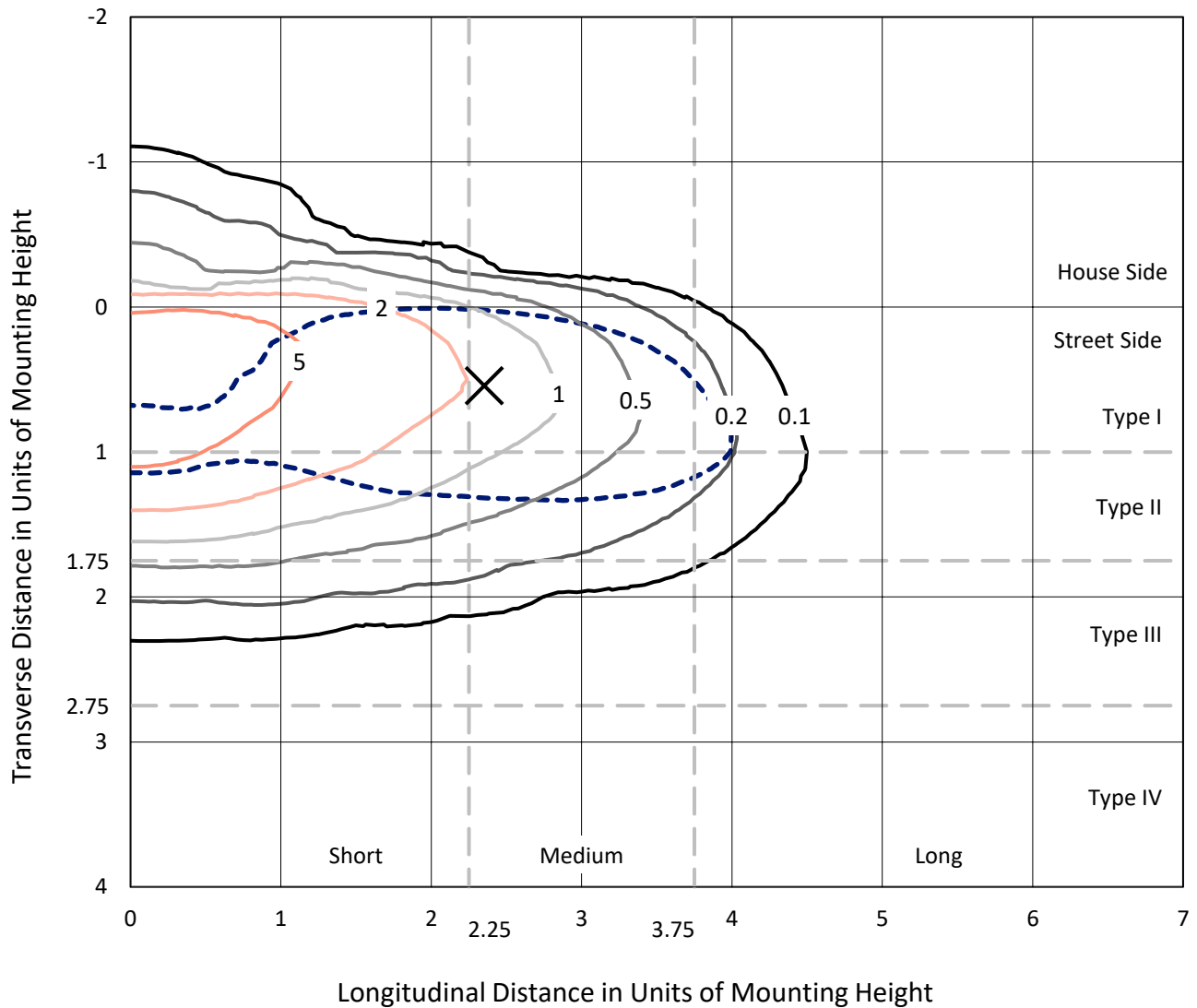
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

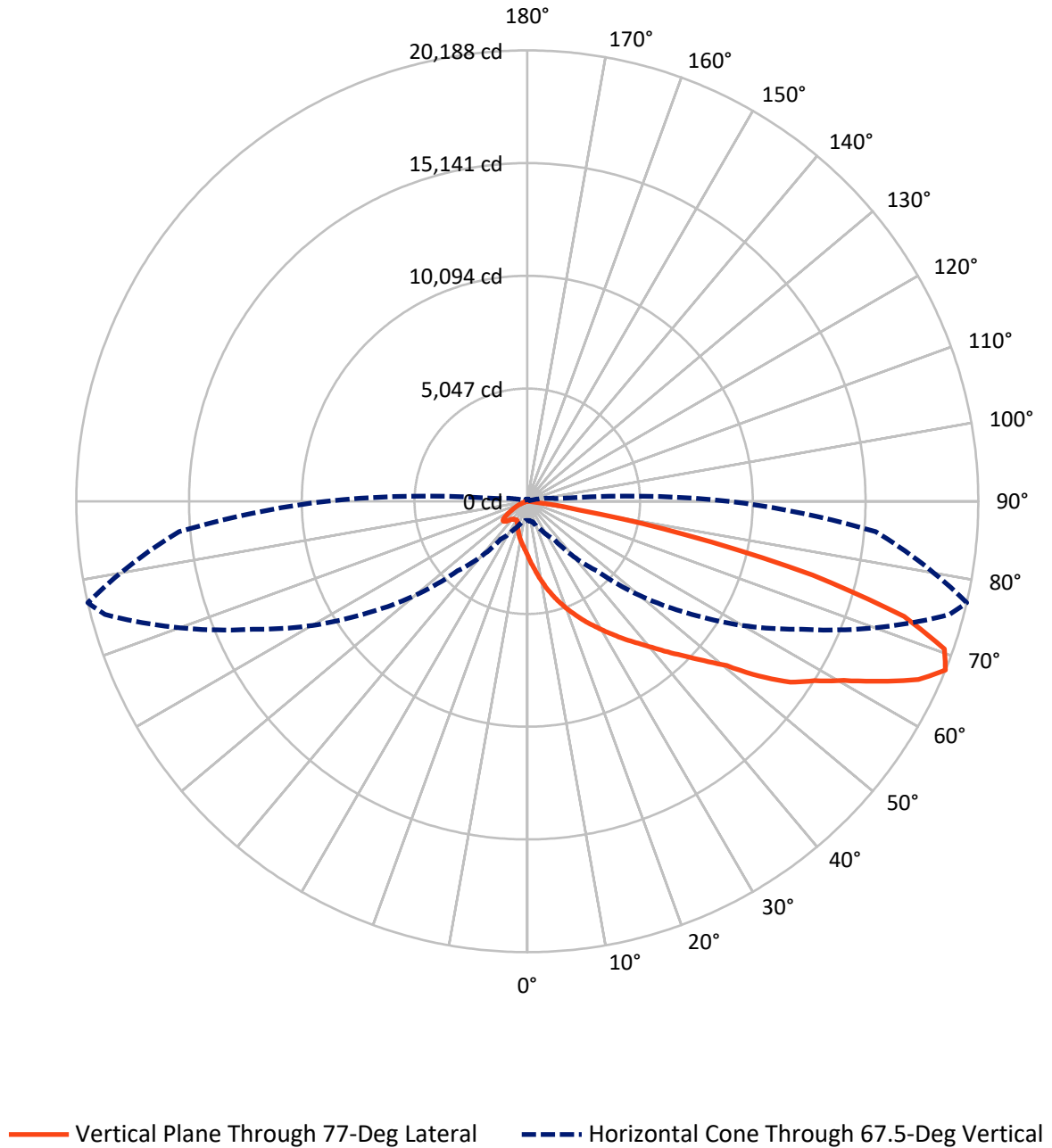
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1549.2	0.0	1549.2
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	19507.8	0.0	19507.8
	% Fixture	92.6	0.0	92.6
Total	Lumens	21057.0	0.0	21057.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.8	1.2
10°-20°	867.9	4.1
20°-30°	1674.8	8.0
30°-40°	2907.5	13.8
40°-50°	4221.6	20.0
50°-60°	4848.0	23.0
60°-70°	4208.9	20.0
70°-80°	1982.5	9.4
80°-90°	98.0	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°	21057.0	100.0
0°-180°	21057.0	100.0

Coefficient of Utilization



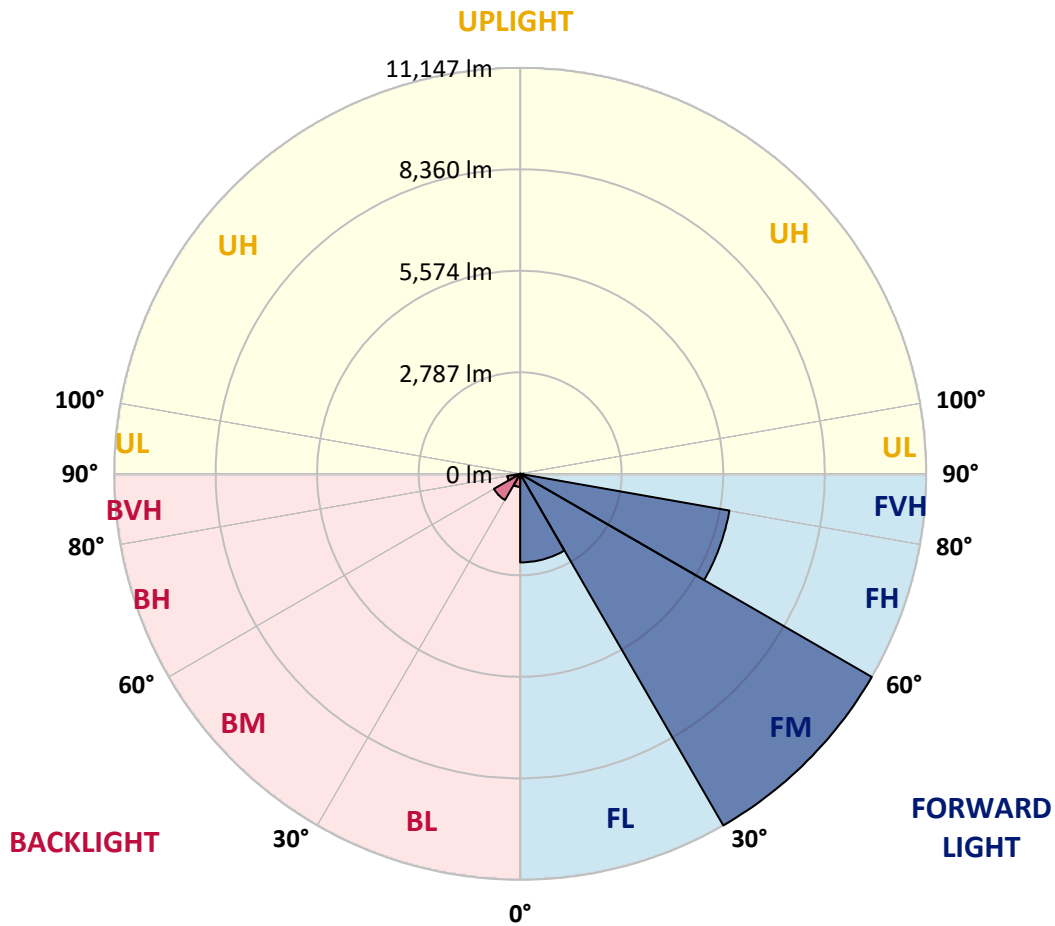
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2431.9	11.5			
FM (30°-60°)	11147.0	52.9			
FH (60°-80°)	5832.7	27.7			G3/7500
FVH (80°-90°)	96.2	0.5			G1/100
BL (0°-30°)	358.7	1.7	B1/500		
BM (30°-60°)	830.1	3.9	B1/1000		
BH (60°-80°)	358.7	1.7	B1/500		G1/500
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2428.2	2428.2	2428.2	2428.2	2428.2	2428.2	2428.2	2428.2	2428.2	2428.2
2.5°	3361.8	3382.7	3352.6	3295.1	3208.8	3152.6	3015.3	2885.8	2742.0	2696.2
5°	4098.0	4116.3	4082.3	4019.5	3904.4	3794.6	3614.2	3343.5	3062.4	2972.1
7.5°	4643.2	4653.7	4640.6	4583.1	4473.2	4349.0	4147.7	3827.3	3410.2	3310.8
10°	5035.5	5069.5	5065.6	5043.3	4970.1	4869.4	4655.0	4290.2	3799.8	3671.7
12.5°	5295.7	5333.6	5355.9	5405.5	5401.6	5337.6	5149.3	4763.5	4188.2	4037.8
15°	5371.6	5412.1	5497.1	5612.1	5714.1	5746.8	5614.8	5227.7	4615.8	4423.6
17.5°	5328.4	5391.2	5493.2	5674.9	5898.5	6046.3	6031.9	5676.2	5004.1	4784.4
20°	5423.9	5484.0	5563.8	5716.8	5977.0	6245.0	6352.2	6105.1	5389.9	5159.7
22.5°	5952.1	5941.7	5949.5	5974.3	6129.9	6395.4	6616.4	6494.8	5771.7	5536.3
25°	6789.0	6741.9	6662.1	6527.5	6488.2	6616.4	6846.5	6840.0	6174.4	5922.0
27.5°	7748.7	7740.9	7553.9	7229.6	7046.6	6996.9	7106.7	7176.0	6573.2	6303.9
30°	8668.0	8688.9	8436.5	8075.6	7739.6	7544.8	7445.4	7495.1	6978.6	6715.7
32.5°	9468.2	9490.4	9215.8	8793.5	8377.7	8142.3	7933.1	7810.2	7420.5	7134.2
35°	10144.2	10166.5	9851.3	9384.5	8941.3	8728.1	8491.4	8155.4	7865.1	7598.4
37.5°	10748.3	10741.8	10319.4	9848.7	9413.3	9244.6	9120.4	8580.4	8322.8	8065.2
40°	11105.3	11132.8	10771.9	10252.8	9830.4	9707.5	9699.7	9107.3	8851.0	8601.3
42.5°	11209.9	11258.3	10996.8	10570.5	10187.4	10054.0	10259.3	9677.4	9465.6	9222.4
45°	11021.6	11068.7	10949.7	10654.2	10430.6	10344.3	10740.5	10268.4	10122.0	9881.4
47.5°	10472.4	10531.3	10560.0	10497.3	10494.7	10582.3	11172.0	10890.9	10901.3	10655.5
50°	9409.4	9508.7	9772.9	9995.2	10339.1	10770.6	11591.7	11565.6	11780.0	11568.2
52.5°	7476.8	7618.0	8528.1	9136.1	9908.9	10735.3	12053.3	12648.3	13321.7	13011.8
55°	6008.3	6008.3	6748.4	7886.0	9069.4	10502.5	12254.7	13351.7	14371.6	14298.4
57.5°	4898.2	4957.0	5429.1	6434.6	7854.7	9948.1	12378.9	13793.7	15217.7	15164.0
60°	3023.1	3150.0	4041.7	5034.2	6472.5	8960.9	12300.4	14240.9	16244.1	16287.3
62.5°	1702.5	1749.5	2147.1	3622.0	5032.9	7633.7	11700.3	14490.6	17556.9	17740.0
65°	1175.5	1199.1	1352.0	2254.3	3488.6	6077.6	10527.4	14335.0	18872.3	19242.4
67.5°	853.9	865.6	961.1	1376.9	2069.9	4406.6	8688.9	13550.5	19569.3	20187.8
70°	656.4	664.3	733.6	904.8	1222.6	2719.8	6310.4	11990.5	19064.6	19803.3
72.5°	533.5	541.3	595.0	669.5	810.7	1608.3	3824.7	9737.6	16836.4	17634.1
75°	449.8	460.3	508.6	557.0	635.5	1033.0	1794.0	6781.1	12661.3	13184.4
77.5°	249.7	230.1	413.2	461.6	536.1	653.8	839.5	3990.7	7091.0	7236.2
80°	155.6	160.8	328.2	371.4	411.9	329.5	384.4	1536.4	2458.3	2335.3
82.5°	9.2	20.9	252.4	268.1	282.4	141.2	145.1	521.7	592.3	544.0
85°	0.0	0.0	115.1	92.8	98.1	40.5	41.8	121.6	79.8	86.3
87.5°	0.0	0.0	0.0	2.6	0.0	3.9	7.8	10.5	3.9	5.2
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°
2428.2	0°	2428.2	2428.2	2428.2	2428.2	2428.2	2428.2	2428.2	2428.2	2428.2	2428.2
2552.4	2.5°	2460.9	2369.3	2183.7	2001.9	1854.2	1716.9	1618.8	1525.9	1478.9	1476.3
2717.2	5°	2535.4	2343.2	1971.8	1643.6	1379.5	1167.7	1030.4	932.3	882.6	865.6
2919.8	7.5°	2640.0	2351.0	1786.2	1329.8	1018.6	836.9	758.4	727.0	716.6	704.8
3148.7	10°	2772.1	2369.3	1620.1	1070.9	802.9	711.3	679.9	666.9	659.0	651.2
3406.3	12.5°	2919.8	2386.3	1455.3	889.2	706.1	659.0	636.8	621.1	610.6	601.5
3670.4	15°	3063.7	2396.8	1284.0	762.3	656.4	618.5	595.0	578.0	563.6	553.1
3929.3	17.5°	3206.2	2411.2	1123.2	686.5	615.9	578.0	554.4	533.5	521.7	510.0
4201.3	20°	3364.4	2408.6	971.5	632.9	575.3	537.4	512.6	493.0	481.2	468.1
4488.9	22.5°	3510.9	2395.5	838.2	587.1	533.5	496.9	469.4	449.8	438.0	427.6
4783.1	25°	3679.5	2385.0	727.0	545.3	494.3	457.7	427.6	409.3	396.2	387.0
5078.7	27.5°	3841.7	2369.3	645.9	507.3	456.3	421.0	392.3	371.4	359.6	353.0
5383.3	30°	4001.2	2365.4	615.9	470.7	422.3	387.0	358.3	338.7	329.5	326.9
5718.1	32.5°	4193.4	2375.9	628.9	457.7	391.0	355.7	328.2	313.8	304.7	304.7
6090.7	35°	4398.7	2373.3	648.6	469.4	370.0	324.3	303.4	294.2	285.1	285.1
6503.9	37.5°	4656.3	2377.2	664.3	489.0	362.2	298.1	286.4	274.6	269.4	269.4
6956.3	40°	5040.7	2506.6	656.4	506.0	359.6	279.8	256.3	252.4	248.4	248.4
7467.6	42.5°	5511.5	2787.8	666.9	507.3	358.3	266.7	235.4	243.2	234.1	232.7
8044.3	45°	6026.7	3095.0	733.6	479.9	357.0	260.2	224.9	234.1	219.7	219.7
8712.4	47.5°	6537.9	3399.7	801.5	440.7	353.0	258.9	215.8	210.5	206.6	207.9
9583.3	50°	7242.7	3648.2	827.7	387.0	343.9	256.3	198.8	200.1	197.4	200.1
10811.1	52.5°	8010.3	3700.5	796.3	326.9	317.7	248.4	187.0	192.2	190.9	193.5
11675.4	55°	8488.8	3644.2	657.7	272.0	277.2	217.1	175.2	185.7	185.7	185.7
12520.1	57.5°	8983.1	3404.9	466.8	221.0	230.1	177.8	164.8	179.1	177.8	176.5
13537.4	60°	9338.8	3017.9	307.3	181.8	183.1	146.4	153.0	168.7	167.4	160.8
14586.1	62.5°	9604.2	2590.3	197.4	154.3	139.9	132.1	139.9	153.0	147.8	133.4
15475.2	65°	9574.1	1998.0	151.7	132.1	115.1	115.1	121.6	133.4	117.7	94.1
15645.2	67.5°	9015.8	1352.0	125.5	111.1	96.8	95.5	100.7	111.1	100.7	79.8
14774.4	70°	8018.1	883.9	100.7	86.3	77.1	70.6	81.1	95.5	85.0	64.1
12577.6	72.5°	6507.8	538.7	75.8	62.8	56.2	45.8	64.1	78.5	68.0	47.1
8746.4	75°	4210.4	274.6	52.3	40.5	30.1	27.5	47.1	58.8	47.1	28.8
3880.9	77.5°	1610.9	115.1	28.8	18.3	15.7	13.1	26.2	35.3	19.6	6.5
751.9	80°	309.9	48.4	14.4	9.2	7.8	5.2	3.9	2.6	0.0	0.0
133.4	82.5°	53.6	15.7	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
26.2	85°	18.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.2	87.5°	6.5	0.0	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°
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2428.2
1473.6
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