

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: P943726

Luminaire Tested: **GALN-SB8B-830-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32088 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

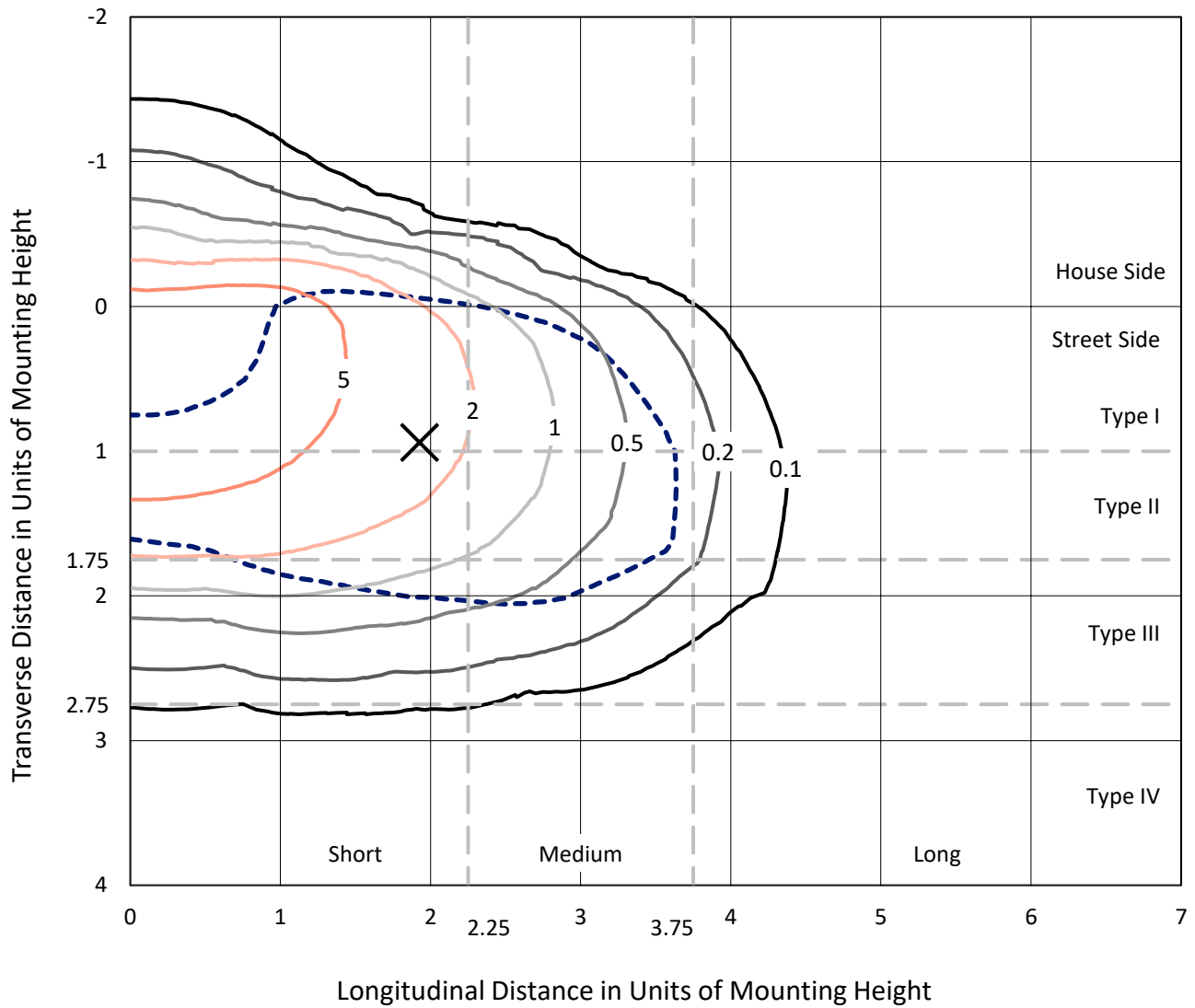
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

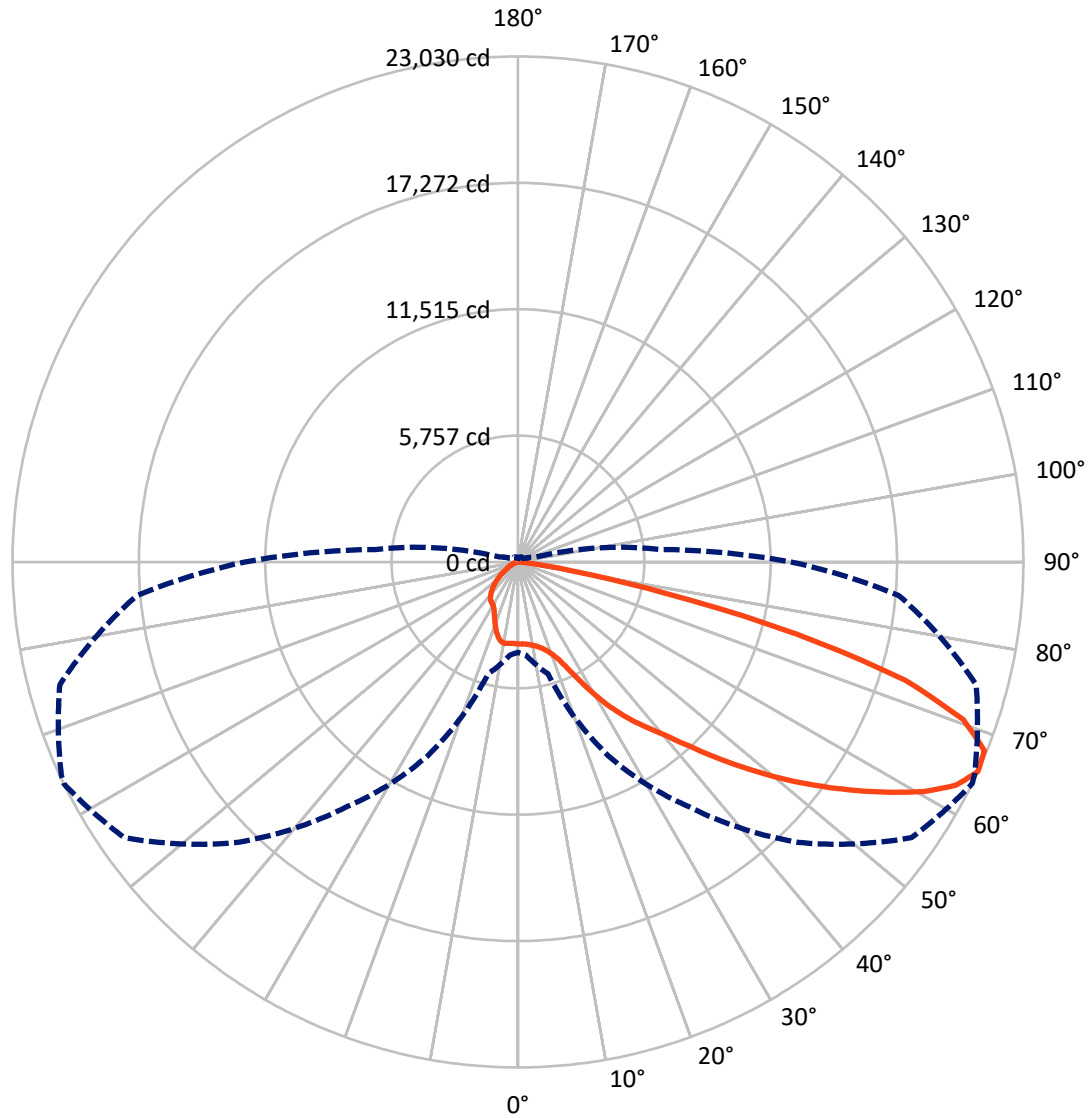
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4291.1	0.0	4291.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	27796.9	0.0	27796.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	32088.0	0.0	32088.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.3	1.1
10°-20°	933.9	2.9
20°-30°	1769.7	5.5
30°-40°	3581.0	11.2
40°-50°	6100.3	19.0
50°-60°	8296.0	25.9
60°-70°	7790.3	24.3
70°-80°	3121.1	9.7
80°-90°	151.2	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°	32088.0	100.0
0°-180°	32088.0	100.0

Coefficient of Utilization



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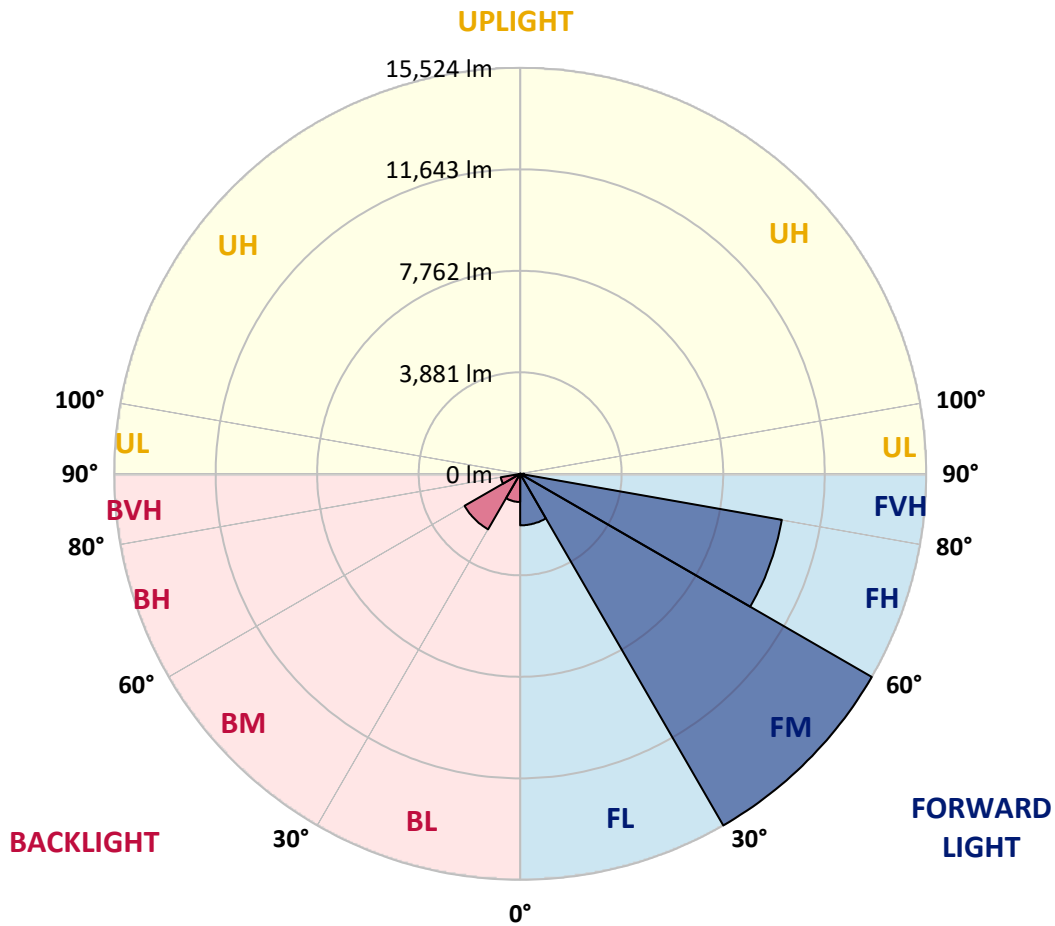
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1970.6	6.1			
FM (30°-60°)	15524.1	48.4			
FH (60°-80°)	10158.3	31.7			G4/12000
FVH (80°-90°)	143.8	0.4			G2/225
BL (0°-30°)	1077.4	3.4	B3/2500		
BM (30°-60°)	2453.2	7.6	B2/2500		
BH (60°-80°)	753.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	7.4	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	3732.2	3732.2	3732.2	3732.2	3732.2	3732.2	3732.2	3732.2	3732.2	3732.2
2.5°	3719.3	3745.1	3738.6	3732.2	3730.0	3734.3	3736.5	3734.3	3734.3	3734.3
5°	3648.3	3669.8	3669.8	3684.8	3706.4	3732.2	3751.5	3755.8	3760.1	3766.6
7.5°	3512.8	3530.0	3542.9	3592.3	3646.1	3715.0	3773.0	3803.2	3807.5	3831.1
10°	3420.3	3441.8	3463.3	3514.9	3592.3	3695.6	3794.5	3867.7	3878.4	3934.4
12.5°	3416.0	3437.5	3465.4	3521.4	3611.7	3721.4	3841.9	3947.3	3966.6	4048.4
15°	3461.1	3486.9	3512.8	3581.6	3678.4	3811.8	3940.8	4072.0	4091.4	4207.6
17.5°	3553.6	3588.0	3607.4	3676.2	3779.5	3927.9	4097.9	4248.4	4265.6	4401.2
20°	3736.5	3777.3	3783.8	3839.7	3940.8	4100.0	4302.2	4489.4	4510.9	4665.7
22.5°	4115.1	4173.1	4121.5	4149.5	4239.8	4399.0	4618.4	4855.0	4885.2	5061.6
25°	4781.9	4863.6	4730.3	4683.0	4721.7	4887.3	5162.7	5461.7	5496.1	5638.0
27.5°	6091.9	5986.5	5784.3	5586.4	5470.3	5564.9	5874.7	6244.7	6287.7	6425.4
30°	7531.0	7438.5	7165.3	6726.5	6451.2	6436.1	6722.2	7135.2	7184.7	7315.9
32.5°	8972.3	8884.1	8587.2	8047.3	7569.7	7333.1	7531.0	7989.2	8015.0	8098.9
35°	10389.8	10299.5	10002.6	9449.8	8862.6	8324.8	8286.1	8802.3	8810.9	8899.1
37.5°	11816.0	11740.7	11424.5	10882.4	10303.8	9561.7	9202.4	9572.4	9583.2	9669.2
40°	12833.5	12865.8	12648.5	12229.0	11732.1	10921.2	10230.7	10392.0	10327.5	10471.6
42.5°	13706.8	13771.4	13582.1	13371.3	13083.0	12368.9	11504.1	11476.1	11372.9	11450.3
45°	14461.9	14515.7	14345.7	14296.2	14289.8	13788.6	12895.9	12728.1	12584.0	12568.9
47.5°	14739.4	14842.6	14915.8	15081.4	15404.1	15193.3	14335.0	14074.7	13913.3	13795.0
50°	14844.8	14954.5	15204.0	15685.9	16449.5	16539.8	15767.6	15475.1	15277.1	15062.0
52.5°	14702.8	14898.6	15234.1	16045.1	17152.9	17619.7	17142.2	16886.2	16660.3	16309.7
55°	13866.0	14061.8	14748.0	16040.8	17503.5	18376.9	18441.4	18327.4	18073.6	17520.8
57.5°	12102.1	12392.5	13478.8	15494.4	17497.1	19028.7	19714.9	19796.6	19512.7	18721.1
60°	9658.5	10052.1	11377.2	14283.3	16957.2	19381.5	20831.3	21240.0	20938.9	19904.2
62.5°	6739.4	7195.4	8449.5	12386.1	15722.4	19127.6	21646.6	22401.6	22173.6	20962.5
65°	4110.8	4257.0	5268.1	9746.7	13622.9	18065.0	21898.3	23029.7	22954.4	21610.0
67.5°	2738.4	2861.0	3151.4	6683.5	10574.8	15941.8	21295.9	22920.0	22941.5	21504.6
70°	1649.9	1755.3	1944.6	3887.0	6853.4	12618.4	19430.9	21521.8	21646.6	20095.6
72.5°	679.7	750.7	922.8	1761.8	3549.3	8008.6	15472.9	18478.0	18768.4	16896.9
75°	385.0	421.6	542.1	884.1	1540.2	3732.2	9372.4	13117.4	13545.5	11646.1
77.5°	256.0	273.2	350.6	572.2	866.9	1273.5	4005.4	6834.1	7651.5	6360.8
80°	172.1	187.1	240.9	382.9	563.6	546.4	1275.6	2531.9	3114.8	2185.5
82.5°	116.2	118.3	172.1	251.7	357.1	264.6	376.4	787.3	989.5	632.4
85°	66.7	64.5	126.9	146.3	159.2	109.7	114.0	236.6	309.8	266.7
87.5°	8.6	12.9	49.5	38.7	21.5	23.7	23.7	40.9	60.2	64.5
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°
3732.2	0°	3732.2	3732.2	3732.2	3732.2	3732.2	3732.2	3732.2	3732.2	3732.2	3732.2
3736.5	2.5°	3736.5	3734.3	3727.9	3721.4	3706.4	3697.7	3702.1	3697.7	3695.6	3697.7
3764.4	5°	3764.4	3758.0	3740.8	3719.3	3689.1	3652.6	3628.9	3594.5	3562.2	3542.9
3839.7	7.5°	3839.7	3833.3	3809.6	3749.4	3652.6	3499.8	3360.0	3237.4	3144.9	3091.1
3960.2	10°	3960.2	3949.4	3912.9	3779.5	3525.7	3192.2	2914.7	2684.6	2534.0	2463.0
4102.2	12.5°	4102.2	4089.3	4024.7	3751.5	3284.7	2764.2	2381.3	2125.3	1985.5	1923.1
4265.6	15°	4269.9	4252.7	4125.8	3618.2	2934.1	2290.9	1940.3	1748.8	1658.5	1602.6
4474.3	17.5°	4478.6	4448.5	4201.1	3418.1	2553.4	1929.5	1669.3	1525.1	1445.5	1391.8
4747.5	20°	4749.6	4700.2	4261.3	3179.3	2202.7	1701.5	1486.4	1366.0	1305.7	1258.4
5134.7	22.5°	5128.2	5057.2	4334.5	2921.2	1955.4	1544.5	1350.9	1262.7	1213.2	1159.4
5674.6	25°	5597.2	5513.3	4424.8	2682.4	1785.4	1409.0	1251.9	1178.8	1120.7	1058.3
6382.3	27.5°	6253.3	6102.7	4532.4	2486.7	1639.1	1292.8	1161.6	1079.9	1013.2	961.5
7184.7	30°	6984.6	6737.3	4627.0	2368.4	1505.8	1185.3	1043.3	961.5	899.2	862.6
7905.3	32.5°	7677.3	7341.7	4689.4	2316.7	1385.3	1062.6	914.2	826.0	778.7	767.9
8610.9	35°	8331.2	7888.1	4683.0	2267.3	1277.8	940.0	787.3	697.0	660.4	666.8
9370.2	37.5°	9084.1	8471.1	4637.8	2189.8	1189.6	828.2	677.6	598.0	565.7	567.9
10293.0	40°	9959.6	9144.3	4609.8	2043.5	1092.8	724.9	587.3	522.7	499.1	490.5
11265.3	42.5°	10893.2	9796.1	4614.1	1877.9	972.3	632.4	524.9	471.1	449.6	443.1
12347.3	45°	11831.1	10417.8	4620.6	1705.8	845.4	561.4	479.7	434.5	421.6	413.0
13444.4	47.5°	12713.0	10947.0	4500.1	1520.8	720.6	507.7	443.1	413.0	402.3	391.5
14545.8	50°	13534.8	11299.8	4209.7	1305.7	621.7	464.6	415.2	393.7	382.9	372.1
15543.9	52.5°	14173.6	11355.7	3730.0	1084.2	552.8	432.4	398.0	378.6	365.7	354.9
16350.6	55°	14457.6	11005.1	3048.1	877.7	499.1	404.4	380.7	361.4	346.3	335.6
16985.1	57.5°	14384.4	10267.2	2377.0	705.6	447.4	376.4	359.2	346.3	329.1	311.9
17499.2	60°	14025.2	9279.9	1791.9	587.3	400.1	346.3	335.6	324.8	301.2	275.3
17697.1	62.5°	13403.5	8038.7	1277.8	486.1	348.5	311.9	307.6	299.0	264.6	217.3
17404.6	65°	12452.7	6530.8	860.4	404.4	299.0	273.2	275.3	260.3	215.1	161.3
16333.3	67.5°	11063.1	4775.5	550.7	331.3	249.5	228.0	230.2	221.6	182.8	137.7
14302.7	70°	9292.8	3162.1	359.2	251.7	200.1	176.4	189.3	191.4	154.9	111.9
10977.1	72.5°	6812.6	1867.2	251.7	187.1	146.3	122.6	154.9	159.2	124.8	83.9
6603.9	75°	3882.7	886.3	189.3	135.5	90.3	86.0	120.5	120.5	86.0	55.9
2858.8	77.5°	1630.5	370.0	133.4	88.2	51.6	49.5	81.7	75.3	43.0	25.8
697.0	80°	471.1	165.6	71.0	43.0	21.5	19.4	32.3	23.7	10.8	4.3
264.6	82.5°	185.0	73.1	28.0	17.2	8.6	8.6	4.3	0.0	0.0	0.0
150.6	85°	109.7	30.1	12.9	6.5	2.2	0.0	0.0	0.0	0.0	0.0
32.3	87.5°	28.0	6.5	4.3	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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3732.2
3706.4
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