

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: P941296

Luminaire Tested: **GALN-SB4D-735-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941296  
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-SB4D-735-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

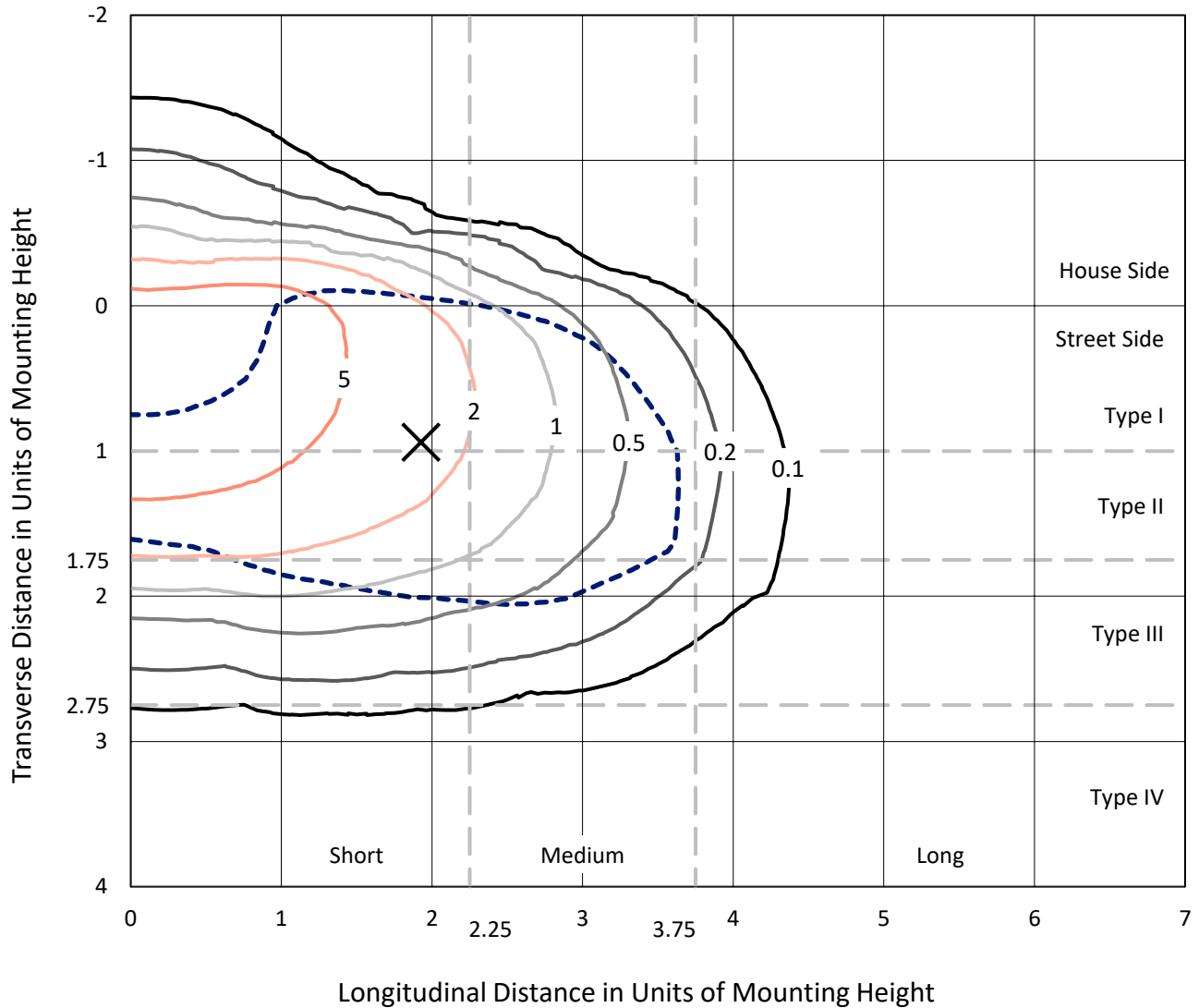
Lumens per Lamp: N/A  
Luminaire Lumens: 31985 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

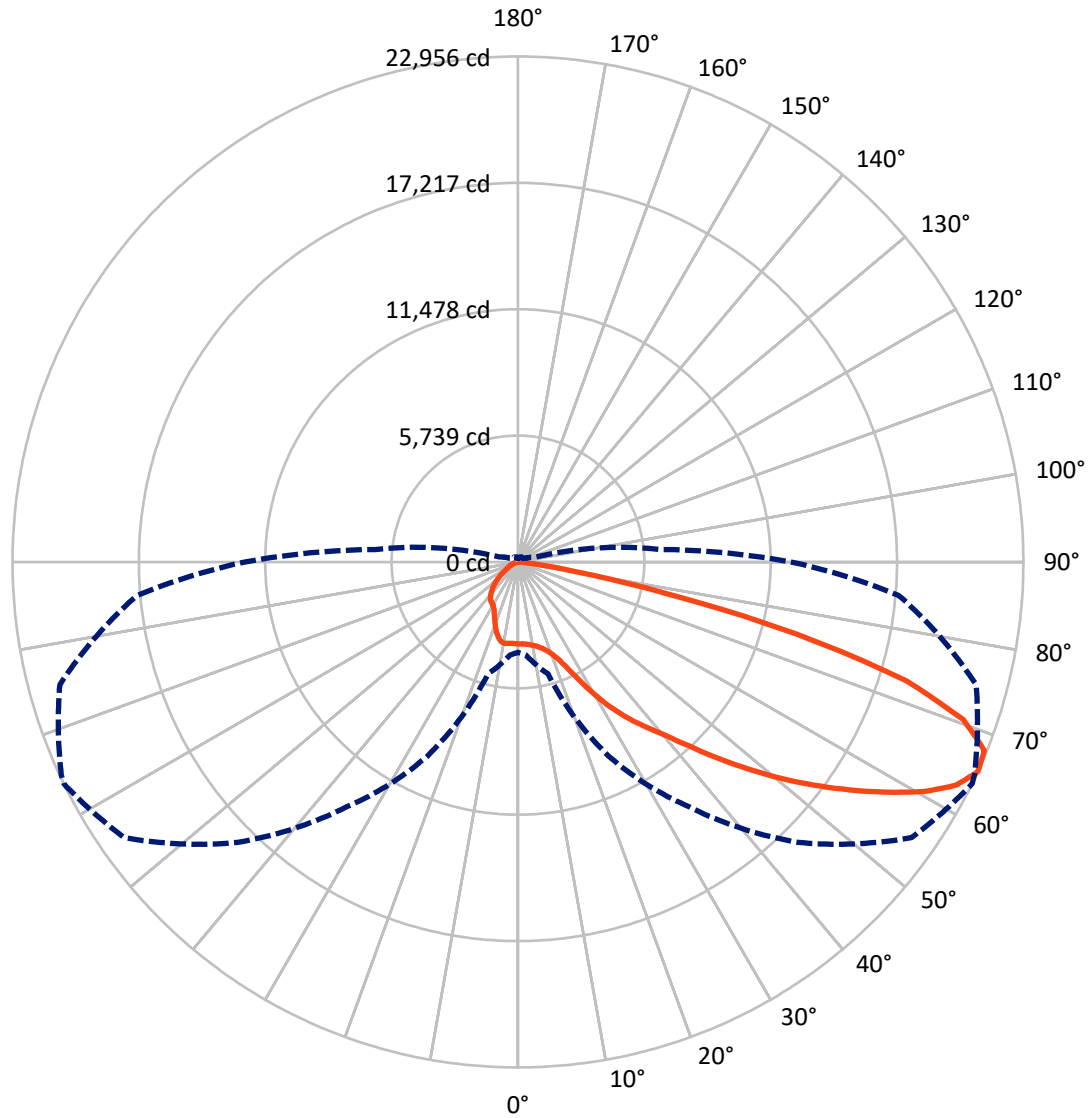
✕ Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	4277.4	0.0	4277.4
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	27707.6	0.0	27707.6
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	31985.0	0.0	31985.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	343.2	1.1
10°-20°	930.9	2.9
20°-30°	1764.0	5.5
30°-40°	3569.5	11.2
40°-50°	6080.8	19.0
50°-60°	8269.4	25.9
60°-70°	7765.3	24.3
70°-80°	3111.1	9.7
80°-90°	150.7	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°	31985.0	100.0
0°-180°	31985.0	100.0

**Coefficient of Utilization**



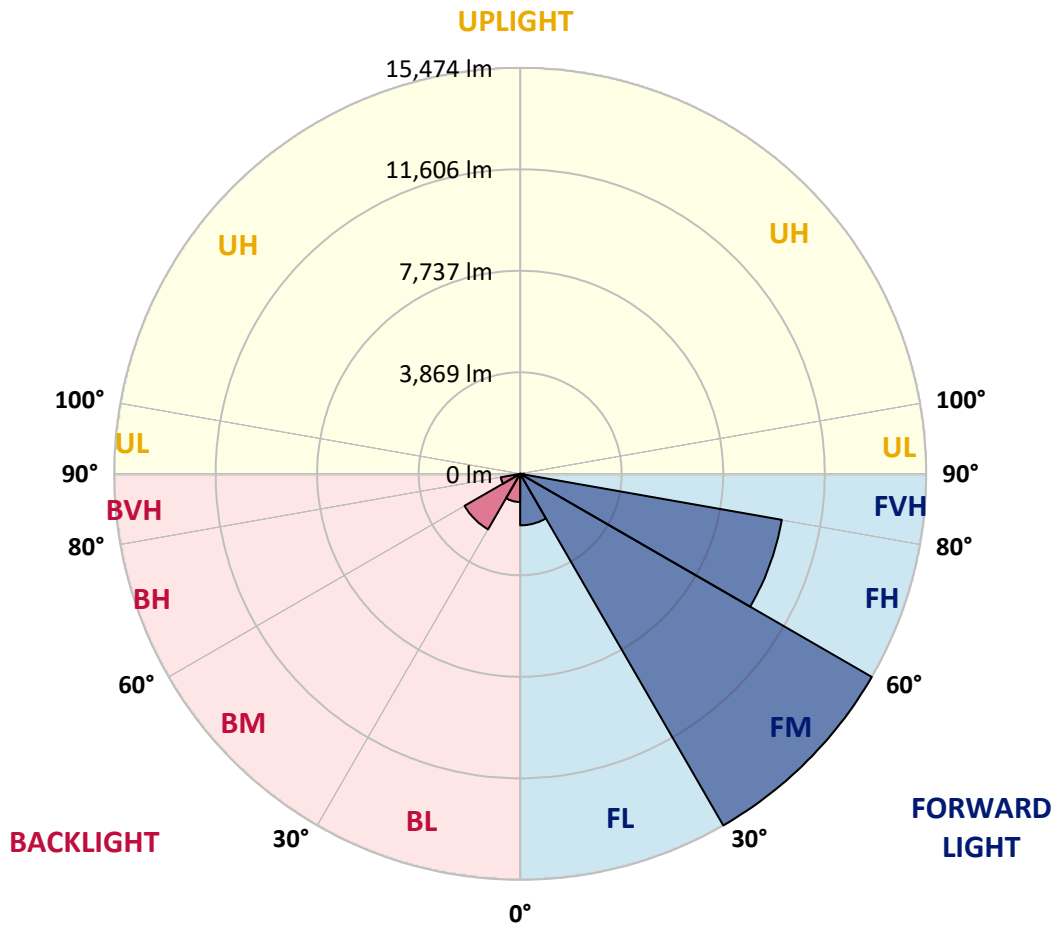
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1964.2	6.1			
FM (30°-60°)	15474.3	48.4			
FH (60°-80°)	10125.7	31.7			G4/12000
FVH (80°-90°)	143.4	0.4			G2/225
BL (0°-30°)	1073.9	3.4	B3/2500		
BM (30°-60°)	2445.3	7.6	B2/2500		
BH (60°-80°)	750.7	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°	3720.2	3720.2	3720.2	3720.2	3720.2	3720.2	3720.2	3720.2	3720.2	3720.2
2.5°	3707.3	3733.1	3726.6	3720.2	3718.0	3722.3	3724.5	3722.3	3722.3	3722.3
5°	3636.6	3658.0	3658.0	3673.0	3694.5	3720.2	3739.5	3743.8	3748.1	3754.5
7.5°	3501.5	3518.6	3531.5	3580.8	3634.4	3703.0	3760.9	3790.9	3795.2	3818.8
10°	3409.3	3430.7	3452.2	3503.6	3580.8	3683.7	3782.4	3855.3	3866.0	3921.7
12.5°	3405.0	3426.4	3454.3	3510.1	3600.1	3709.5	3829.5	3934.6	3953.9	4035.4
15°	3450.0	3475.7	3501.5	3570.1	3666.6	3799.5	3928.2	4059.0	4078.3	4194.1
17.5°	3542.2	3576.5	3595.8	3664.4	3767.4	3915.3	4084.7	4234.8	4251.9	4387.0
20°	3724.5	3765.2	3771.6	3827.4	3928.2	4086.8	4288.4	4474.9	4496.4	4650.8
22.5°	4101.9	4159.7	4108.3	4136.2	4226.2	4384.9	4603.6	4839.5	4869.5	5045.3
25°	4766.6	4848.0	4715.1	4667.9	4706.5	4871.6	5146.1	5444.1	5478.4	5619.9
27.5°	6072.4	5967.3	5765.8	5568.5	5452.7	5547.0	5855.8	6224.6	6267.5	6404.7
30°	7506.8	7414.6	7142.3	6704.9	6430.5	6415.4	6700.6	7112.3	7161.6	7292.4
32.5°	8943.5	8855.5	8559.6	8021.5	7545.4	7309.6	7506.8	7963.6	7989.3	8072.9
35°	10356.5	10266.4	9970.5	9419.5	8834.1	8298.1	8259.5	8774.1	8782.6	8870.6
37.5°	11778.1	11703.0	11387.8	10847.5	10270.7	9531.0	9172.9	9541.7	9552.4	9638.2
40°	12792.3	12824.5	12607.9	12189.8	11694.5	10886.1	10197.8	10358.6	10294.3	10438.0
42.5°	13662.8	13727.2	13538.5	13328.3	13041.0	12329.2	11467.2	11439.3	11336.4	11413.6
45°	14415.5	14469.1	14299.7	14250.4	14243.9	13744.3	12854.5	12687.2	12543.6	12528.6
47.5°	14692.1	14795.0	14867.9	15033.0	15354.6	15144.5	14289.0	14029.5	13868.7	13750.8
50°	14797.1	14906.5	15155.2	15635.5	16396.7	16486.8	15717.0	15425.4	15228.1	15013.7
52.5°	14655.6	14850.7	15185.2	15993.6	17097.9	17563.1	17087.1	16832.0	16606.8	16257.3
55°	13821.5	14016.6	14700.6	15989.3	17447.4	18317.9	18382.2	18268.6	18015.6	17464.5
57.5°	12063.3	12352.7	13435.6	15444.7	17440.9	18967.6	19651.6	19733.1	19450.0	18661.0
60°	9627.5	10019.8	11340.7	14237.5	16902.7	19319.2	20764.4	21171.8	20871.6	19840.3
62.5°	6717.8	7172.4	8422.4	12346.3	15672.0	19066.2	21577.1	22329.7	22102.4	20895.2
65°	4097.6	4243.4	5251.1	9715.4	13579.2	18007.0	21828.0	22955.8	22880.8	21540.6
67.5°	2729.6	2851.8	3141.3	6662.0	10540.9	15890.7	21227.6	22846.5	22867.9	21435.6
70°	1644.6	1749.7	1938.4	3874.6	6831.4	12577.9	19368.6	21452.7	21577.1	20031.1
72.5°	677.6	748.3	919.9	1756.1	3537.9	7982.9	15423.2	18418.7	18708.1	16842.7
75°	383.8	420.3	540.3	881.3	1535.2	3720.2	9342.3	13075.3	13502.0	11608.7
77.5°	255.2	272.3	349.5	570.4	864.1	1269.4	3992.5	6812.1	7626.9	6340.4
80°	171.5	186.5	240.2	381.7	561.8	544.6	1271.5	2523.7	3104.8	2178.5
82.5°	115.8	117.9	171.5	250.9	355.9	263.7	375.2	784.8	986.3	630.4
85°	66.5	64.3	126.5	145.8	158.7	109.4	113.6	235.9	308.8	265.9
87.5°	8.6	12.9	49.3	38.6	21.4	23.6	23.6	40.7	60.0	64.3
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°
3720.2	0°	3720.2	3720.2	3720.2	3720.2	3720.2	3720.2	3720.2	3720.2	3720.2	3720.2
3724.5	2.5°	3724.5	3722.3	3715.9	3709.5	3694.5	3685.9	3690.2	3685.9	3683.7	3685.9
3752.4	5°	3752.4	3745.9	3728.8	3707.3	3677.3	3640.9	3617.3	3583.0	3550.8	3531.5
3827.4	7.5°	3827.4	3821.0	3797.4	3737.3	3640.9	3488.6	3349.2	3227.0	3134.8	3081.2
3947.5	10°	3947.5	3936.8	3900.3	3767.4	3514.3	3182.0	2905.4	2676.0	2525.9	2455.1
4089.0	12.5°	4089.0	4076.1	4011.8	3739.5	3274.2	2755.3	2373.6	2118.5	1979.1	1916.9
4251.9	15°	4256.2	4239.1	4112.6	3606.5	2924.7	2283.6	1934.1	1743.2	1653.2	1597.4
4459.9	17.5°	4464.2	4434.2	4187.6	3407.1	2545.2	1923.3	1663.9	1520.2	1440.9	1387.3
4732.3	20°	4734.4	4685.1	4247.7	3169.1	2195.7	1696.1	1481.6	1361.6	1301.5	1254.4
5118.2	22.5°	5111.8	5041.0	4320.6	2911.8	1949.1	1539.5	1346.6	1258.6	1209.3	1155.7
5656.4	25°	5579.2	5495.6	4410.6	2673.8	1779.7	1404.5	1247.9	1175.0	1117.1	1054.9
6361.8	27.5°	6233.2	6083.1	4517.8	2478.7	1633.9	1288.7	1157.9	1076.4	1009.9	958.5
7161.6	30°	6962.2	6715.6	4612.2	2360.8	1500.9	1181.5	1039.9	958.5	896.3	859.8
7879.9	32.5°	7652.7	7318.2	4674.4	2309.3	1380.9	1059.2	911.3	823.4	776.2	765.5
8583.2	35°	8304.5	7862.8	4667.9	2260.0	1273.7	937.0	784.8	694.7	658.3	664.7
9340.1	37.5°	9055.0	8443.9	4622.9	2182.8	1185.7	825.5	675.4	596.1	563.9	566.1
10260.0	40°	9927.6	9115.0	4595.0	2037.0	1089.3	722.6	585.4	521.0	497.5	488.9
11229.2	42.5°	10858.2	9764.7	4599.3	1871.9	969.2	630.4	523.2	469.6	448.1	441.7
12307.7	45°	11793.1	10384.4	4605.7	1700.4	842.7	559.6	478.2	433.1	420.3	411.7
13401.3	47.5°	12672.2	10911.8	4485.7	1515.9	718.3	506.0	441.7	411.7	401.0	390.2
14499.1	50°	13491.3	11263.5	4196.2	1301.5	619.7	463.1	413.8	392.4	381.7	370.9
15494.0	52.5°	14128.1	11319.2	3718.0	1080.7	551.1	431.0	396.7	377.4	364.5	353.8
16298.1	55°	14411.2	10969.7	3038.3	874.8	497.5	403.1	379.5	360.2	345.2	334.5
16930.6	57.5°	14338.3	10234.3	2369.3	703.3	446.0	375.2	358.1	345.2	328.1	310.9
17443.1	60°	13980.2	9250.1	1786.1	585.4	398.8	345.2	334.5	323.8	300.2	274.5
17640.3	62.5°	13360.5	8012.9	1273.7	484.6	347.4	310.9	306.6	298.0	263.7	216.6
17348.7	65°	12412.8	6509.8	857.7	403.1	298.0	272.3	274.5	259.4	214.4	160.8
16280.9	67.5°	11027.6	4760.1	548.9	330.2	248.7	227.3	229.4	220.9	182.3	137.2
14256.8	70°	9262.9	3152.0	358.1	250.9	199.4	175.8	188.7	190.8	154.4	111.5
10941.9	72.5°	6790.7	1861.2	250.9	186.5	145.8	122.2	154.4	158.7	124.4	83.6
6582.7	75°	3870.3	883.4	188.7	135.1	90.1	85.8	120.1	120.1	85.8	55.7
2849.6	77.5°	1625.3	368.8	132.9	87.9	51.5	49.3	81.5	75.0	42.9	25.7
694.7	80°	469.6	165.1	70.8	42.9	21.4	19.3	32.2	23.6	10.7	4.3
263.7	82.5°	184.4	72.9	27.9	17.2	8.6	8.6	4.3	0.0	0.0	0.0
150.1	85°	109.4	30.0	12.9	6.4	2.1	0.0	0.0	0.0	0.0	0.0
32.2	87.5°	27.9	6.4	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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3720.2
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