

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: P948837

Luminaire Tested: **GALN-SB3D-735-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948837
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-SB3D-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 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: 25419 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

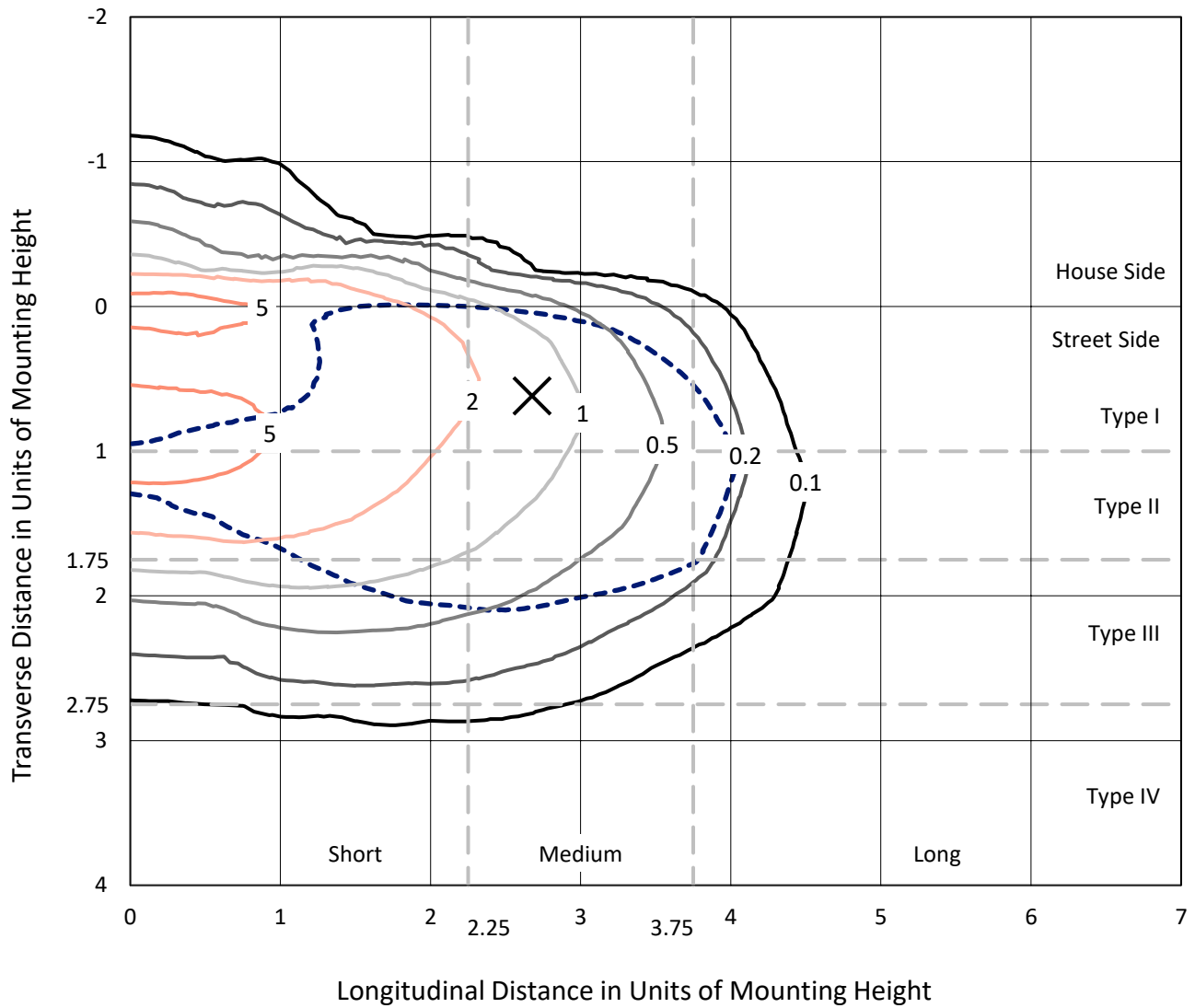
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

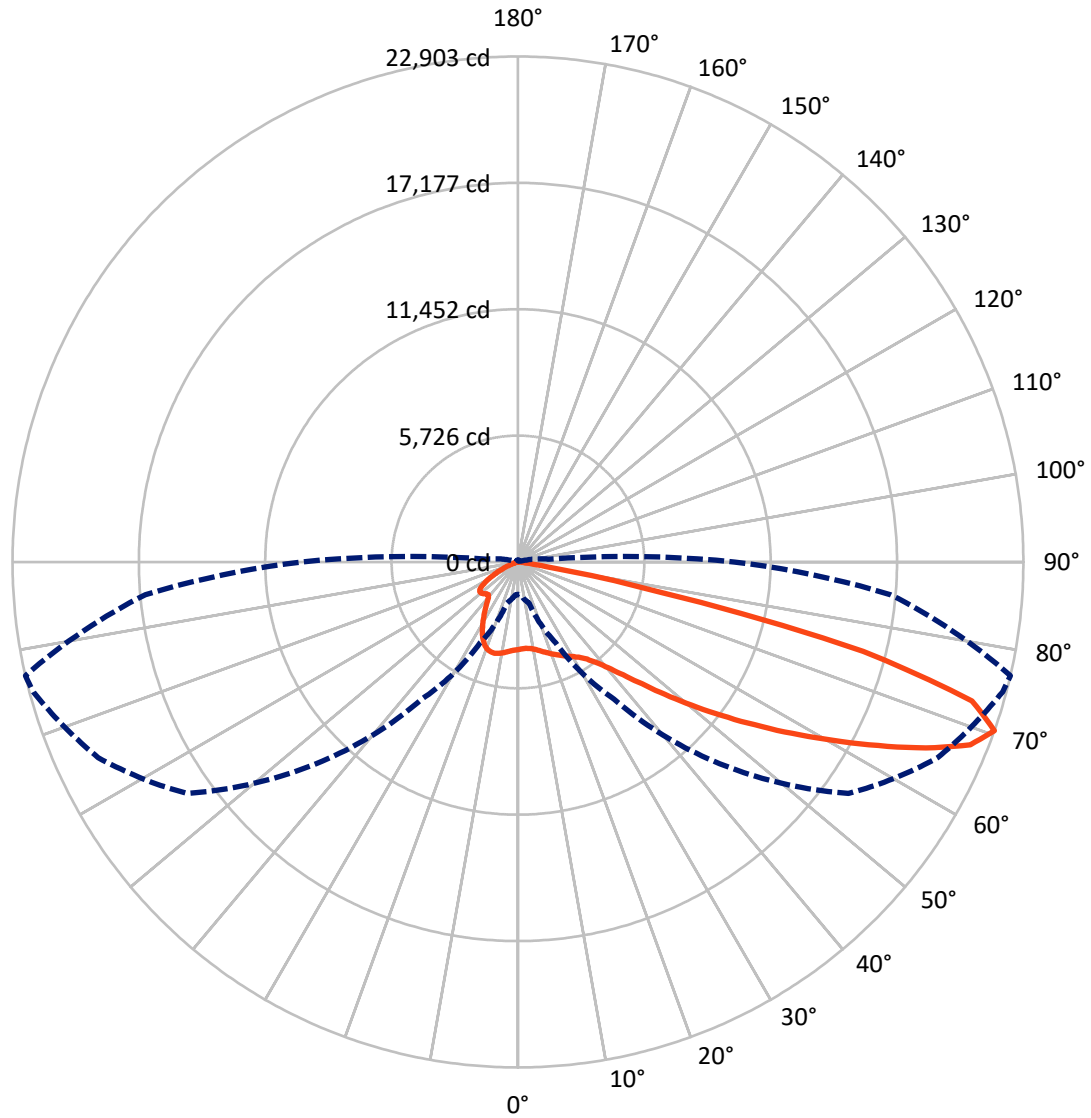
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	2679.5	0.0	2679.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	22739.5	0.0	22739.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	25419.0	0.0	25419.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.7	1.3
10°-20°	811.2	3.2
20°-30°	1254.7	4.9
30°-40°	2276.7	9.0
40°-50°	4297.5	16.9
50°-60°	6209.5	24.4
60°-70°	6609.9	26.0
70°-80°	3502.8	13.8
80°-90°	115.0	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°	25419.0	100.0
0°-180°	25419.0	100.0

Coefficient of Utilization



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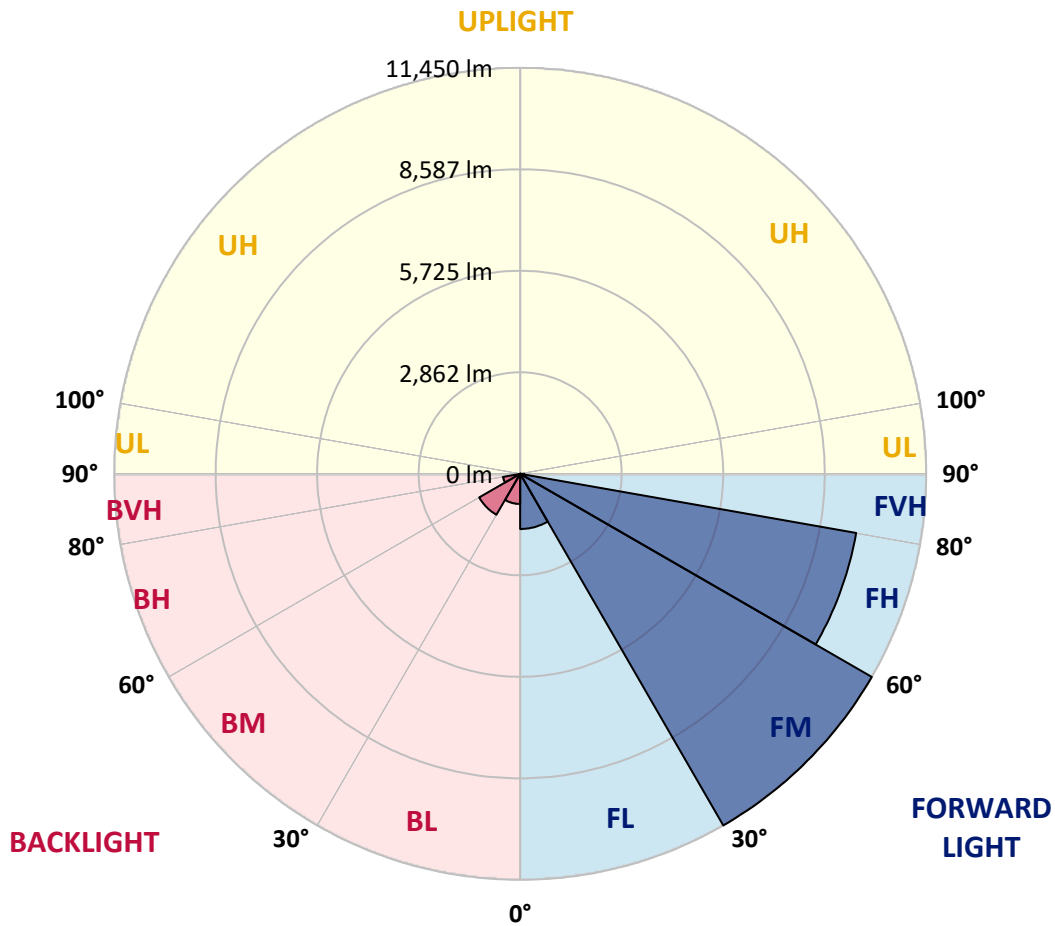
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1556.2	6.1			
FM (30°-60°)	11449.9	45.0			
FH (60°-80°)	9621.5	37.9			G4/12000
FVH (80°-90°)	111.9	0.4			G2/225
BL (0°-30°)	851.3	3.3	B2/1000		
BM (30°-60°)	1333.9	5.2	B2/2500		
BH (60°-80°)	491.2	1.9	B1/500		G1/500
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3964.9	3964.9	3964.9	3964.9	3964.9	3964.9	3964.9	3964.9	3964.9	3964.9
2.5°	3722.5	3756.2	3751.4	3773.9	3781.9	3814.0	3846.1	3889.5	3937.6	3936.0
5°	3512.2	3545.9	3554.0	3584.5	3623.0	3672.8	3738.6	3825.3	3915.1	3929.6
7.5°	3263.4	3298.7	3319.6	3380.6	3451.2	3554.0	3661.5	3788.3	3937.6	3958.5
10°	3014.6	3046.7	3074.0	3160.7	3273.1	3425.5	3600.5	3783.5	3984.2	4014.7
12.5°	2860.5	2891.0	2921.5	2997.0	3136.6	3322.8	3560.4	3806.0	4061.2	4104.6
15°	2805.9	2833.2	2857.3	2924.7	3054.7	3266.6	3552.4	3852.5	4159.1	4216.9
17.5°	2814.0	2828.4	2844.5	2895.8	3022.6	3240.9	3566.8	3932.8	4274.7	4326.1
20°	2860.5	2868.5	2870.1	2905.5	3017.8	3237.7	3595.7	4009.9	4383.9	4452.9
22.5°	2919.9	2923.1	2919.9	2944.0	3048.3	3261.8	3634.2	4103.0	4505.9	4570.1
25°	3197.6	3136.6	3059.6	3013.0	3099.7	3308.4	3692.0	4228.2	4639.1	4701.7
27.5°	4059.6	3884.6	3608.5	3298.7	3205.6	3375.8	3772.3	4355.0	4773.9	4830.1
30°	5459.4	5229.8	4761.1	4062.8	3545.9	3517.0	3876.6	4481.8	4916.8	4977.8
32.5°	6862.3	6806.2	6265.2	5298.8	4311.6	3831.7	4050.0	4653.5	5106.2	5154.4
35°	8281.4	8167.4	7724.3	6769.2	5491.5	4472.2	4338.9	4878.3	5355.0	5409.6
37.5°	9368.1	9299.1	9024.6	8238.0	6891.2	5461.0	4833.3	5226.6	5716.2	5777.2
40°	10328.0	10295.9	10202.8	9684.3	8456.3	6754.8	5602.2	5766.0	6217.0	6289.3
42.5°	11082.5	11157.9	11210.9	11066.4	10069.6	8231.6	6636.0	6523.6	6915.3	6989.1
45°	11854.6	11880.3	12093.8	12302.4	11671.6	9775.8	7801.4	7411.3	7783.7	7875.2
47.5°	12350.6	12453.3	12829.0	13196.6	13018.4	11307.2	9053.5	8459.5	8790.2	8962.0
50°	12387.5	12581.8	13098.6	13739.1	13999.2	12764.7	10414.7	9653.8	10005.4	10194.8
52.5°	11772.7	12074.5	12875.5	13813.0	14528.9	13999.2	11822.5	10848.1	11299.2	11546.4
55°	9026.2	9421.1	12036.0	13411.7	14549.8	14935.0	13193.3	12092.2	12740.7	13020.0
57.5°	7864.0	8063.0	9462.8	12715.0	14162.9	15312.2	14432.6	13276.8	14309.0	14655.7
60°	6542.9	6804.5	7936.2	11575.3	13638.0	15349.2	15527.3	14805.0	16008.9	16399.0
62.5°	4446.5	4730.6	5855.9	9616.9	12920.5	15331.5	16424.7	16378.1	17898.3	18317.2
65°	2754.6	2932.7	3674.4	7852.8	11917.2	15350.8	17363.7	18288.3	19891.9	20317.3
67.5°	2176.7	2258.6	2645.4	6029.2	10188.4	14917.4	18301.2	20084.6	21768.5	22105.5
70°	1462.4	1512.1	1924.7	4042.0	7579.9	12917.2	18283.5	20986.7	22734.8	22903.3
72.5°	770.5	809.0	1125.3	1871.7	4578.1	9181.9	15411.8	19908.0	21773.3	21519.6
75°	385.3	449.5	757.7	950.3	1955.2	5120.7	9570.3	15695.9	17137.4	16155.0
77.5°	292.2	353.1	626.0	626.0	680.6	1724.0	4053.2	8560.7	7896.1	6575.0
80°	186.2	240.8	547.4	473.5	284.1	438.2	1056.2	2398.2	1677.5	1276.2
82.5°	109.2	157.3	455.9	313.0	158.9	162.1	298.6	510.5	435.0	338.7
85°	43.3	102.7	313.0	123.6	62.6	40.1	89.9	109.2	89.9	67.4
87.5°	0.0	24.1	54.6	0.0	4.8	3.2	6.4	8.0	8.0	6.4
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°
3964.9	0°	3964.9	3964.9	3964.9	3964.9	3964.9	3964.9	3964.9	3964.9	3964.9	3964.9
3968.1	2.5°	3982.6	3985.8	3995.4	3997.0	3974.5	3945.6	3934.4	3929.6	3910.3	3908.7
3993.8	5°	4030.7	4045.2	4030.7	3989.0	3889.5	3749.8	3643.9	3557.2	3478.5	3454.4
4082.1	7.5°	4127.0	4141.5	4098.1	3934.4	3684.0	3406.3	3155.9	2979.3	2820.4	2761.0
4189.6	10°	4265.1	4284.3	4147.9	3817.2	3374.2	2927.9	2504.2	2205.6	1972.8	1878.1
4335.7	12.5°	4438.4	4446.5	4175.2	3639.0	2971.3	2334.0	1733.6	1414.2	1207.1	1130.1
4512.3	15°	4629.5	4618.2	4178.4	3396.7	2422.3	1650.2	1131.7	929.4	846.0	820.3
4688.9	17.5°	4830.1	4783.6	4114.2	3046.7	1820.3	1128.5	839.5	791.4	776.9	770.5
4863.8	20°	5027.6	4923.2	3997.0	2589.2	1306.7	842.7	762.5	748.0	740.0	736.8
5040.4	22.5°	5207.3	5029.2	3796.4	2057.9	948.7	744.8	720.7	707.9	693.5	687.0
5212.2	25°	5382.3	5090.2	3513.8	1561.9	759.3	696.7	677.4	653.3	634.1	626.0
5396.8	27.5°	5552.5	5128.7	3160.7	1155.8	677.4	651.7	616.4	582.7	568.2	565.0
5594.2	30°	5733.9	5141.5	2759.4	862.0	627.6	595.5	544.2	505.6	497.6	499.2
5860.7	32.5°	5955.4	5160.8	2354.9	706.3	585.9	528.1	467.1	427.0	420.6	427.0
6249.1	35°	6220.2	5199.3	1964.8	650.1	549.0	459.1	393.3	359.6	353.1	358.0
6746.8	37.5°	6579.8	5261.9	1600.4	638.9	518.5	401.3	330.7	303.4	303.4	305.0
7356.7	40°	7058.2	5428.9	1274.5	630.9	502.4	358.0	279.3	268.1	272.9	276.1
8133.7	42.5°	7640.9	5783.6	1054.6	621.2	484.8	338.7	253.6	248.8	256.8	260.0
9064.7	45°	8294.2	6233.1	977.6	605.2	468.7	351.5	242.4	236.0	245.6	247.2
10108.1	47.5°	8970.0	6672.9	968.0	587.5	452.7	370.8	239.2	224.7	236.0	237.6
11222.1	50°	9653.8	6960.3	977.6	560.2	427.0	370.8	240.8	213.5	223.1	227.9
12377.9	52.5°	10342.5	7091.9	971.2	500.8	382.0	348.3	240.8	203.9	213.5	216.7
13626.8	55°	11010.2	7066.2	873.2	412.5	324.3	308.2	234.4	195.8	202.3	203.9
14806.6	57.5°	11538.4	6708.2	691.9	321.0	263.3	256.8	213.5	186.2	191.0	189.4
15888.5	60°	11814.5	5921.7	494.4	247.2	207.1	202.3	187.8	173.4	176.6	168.5
16805.1	62.5°	11817.7	4881.5	330.7	195.8	165.3	160.5	160.5	155.7	152.5	136.4
17514.6	65°	11565.6	3727.3	219.9	155.7	133.2	125.2	134.8	133.2	122.0	99.5
17731.3	67.5°	10994.2	2443.2	166.9	122.0	102.7	97.9	107.6	112.4	104.3	83.5
16941.5	70°	9819.2	1422.2	138.0	94.7	77.1	72.2	86.7	96.3	86.7	67.4
14480.7	72.5°	8156.1	767.3	112.4	70.6	53.0	48.2	69.0	78.7	69.0	49.8
9291.0	75°	5292.4	410.9	86.7	46.6	27.3	30.5	51.4	57.8	48.2	32.1
2727.3	77.5°	1777.0	181.4	54.6	22.5	12.8	12.8	30.5	35.3	22.5	11.2
496.0	80°	396.5	75.4	22.5	9.6	4.8	4.8	6.4	6.4	3.2	0.0
152.5	82.5°	130.0	30.5	9.6	3.2	0.0	0.0	0.0	0.0	0.0	0.0
38.5	85°	49.8	11.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.8	87.5°	19.3	1.6	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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<u>180°</u>
3964.9
3911.9
3440.0
2736.9
1838.0
1106.0
820.3
768.9
733.6
685.4
622.8
561.8
499.2
425.4
356.4
303.4
276.1
260.0
248.8
239.2
229.5
216.7
203.9
189.4
166.9
131.6
96.3
81.9
64.2
48.2
28.9
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