

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: P951000

Luminaire Tested: **GALN-SB5B-740-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951000
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-SB5B-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 450mA 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: 25054 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

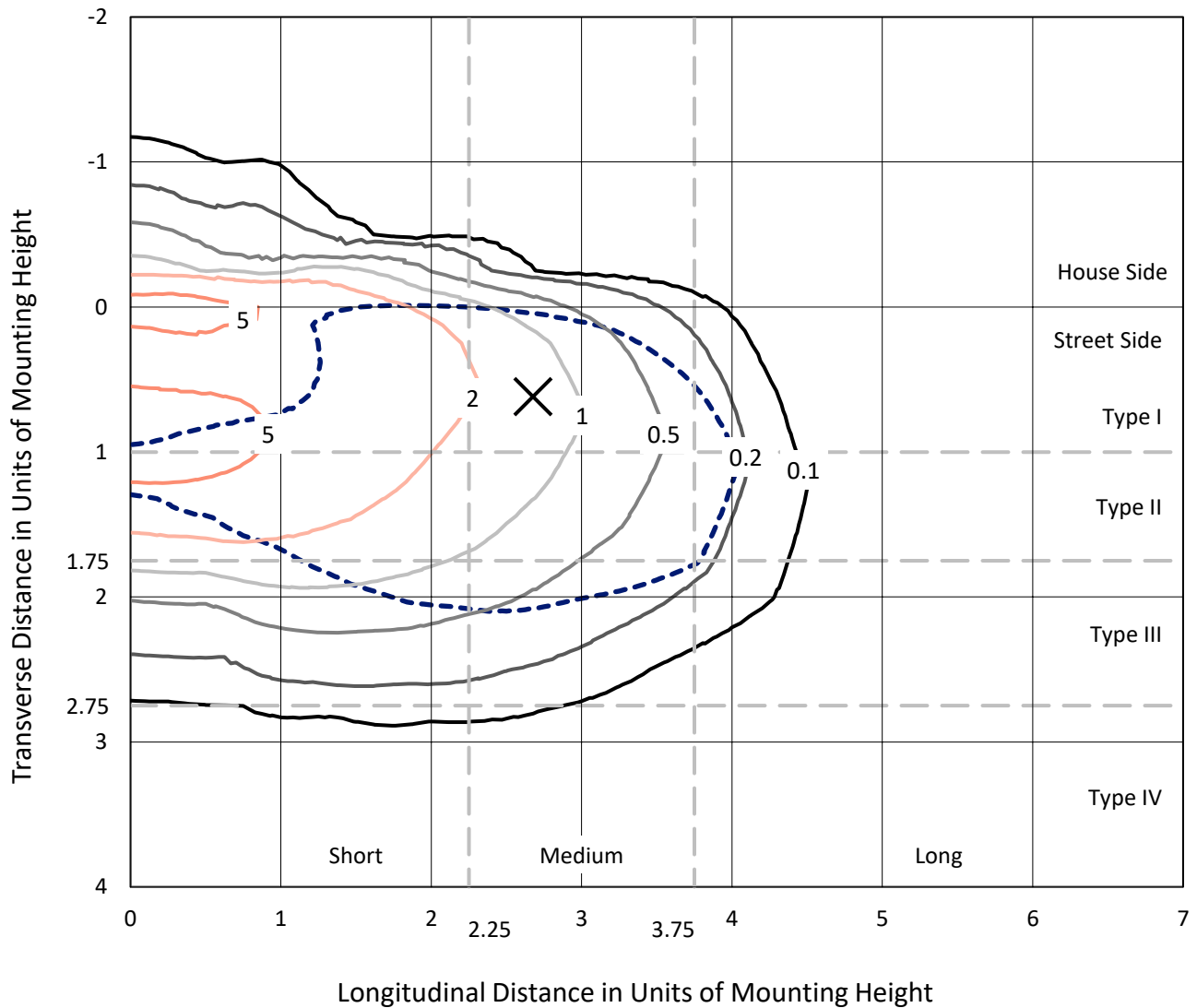
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

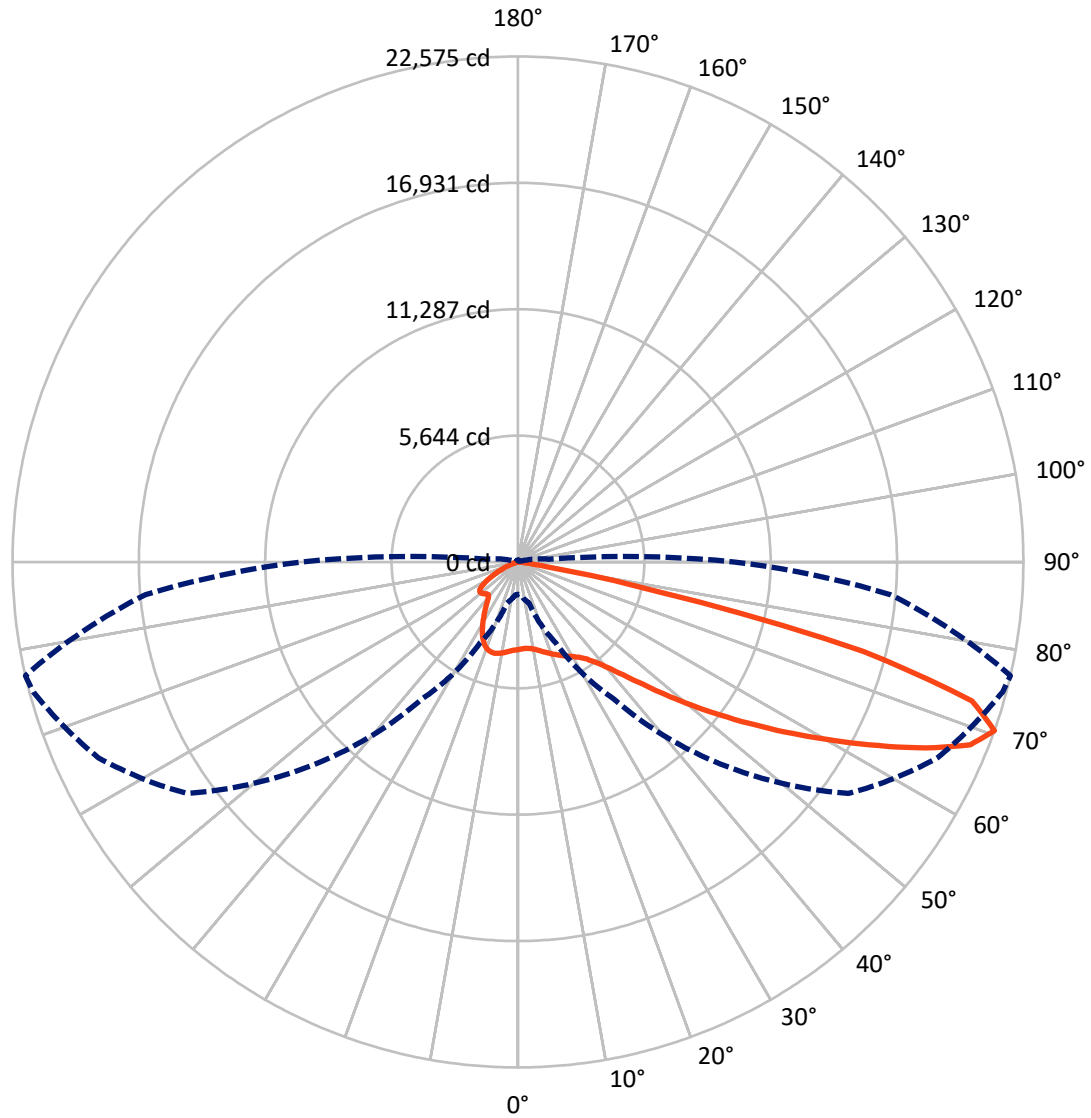
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	2641.0	0.0	2641.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	22412.9	0.0	22412.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	25054.0	0.0	25054.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.8	1.3
10°-20°	799.5	3.2
20°-30°	1236.7	4.9
30°-40°	2244.0	9.0
40°-50°	4235.8	16.9
50°-60°	6120.4	24.4
60°-70°	6515.0	26.0
70°-80°	3452.5	13.8
80°-90°	113.4	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°	25054.0	100.0
0°-180°	25054.0	100.0

Coefficient of Utilization



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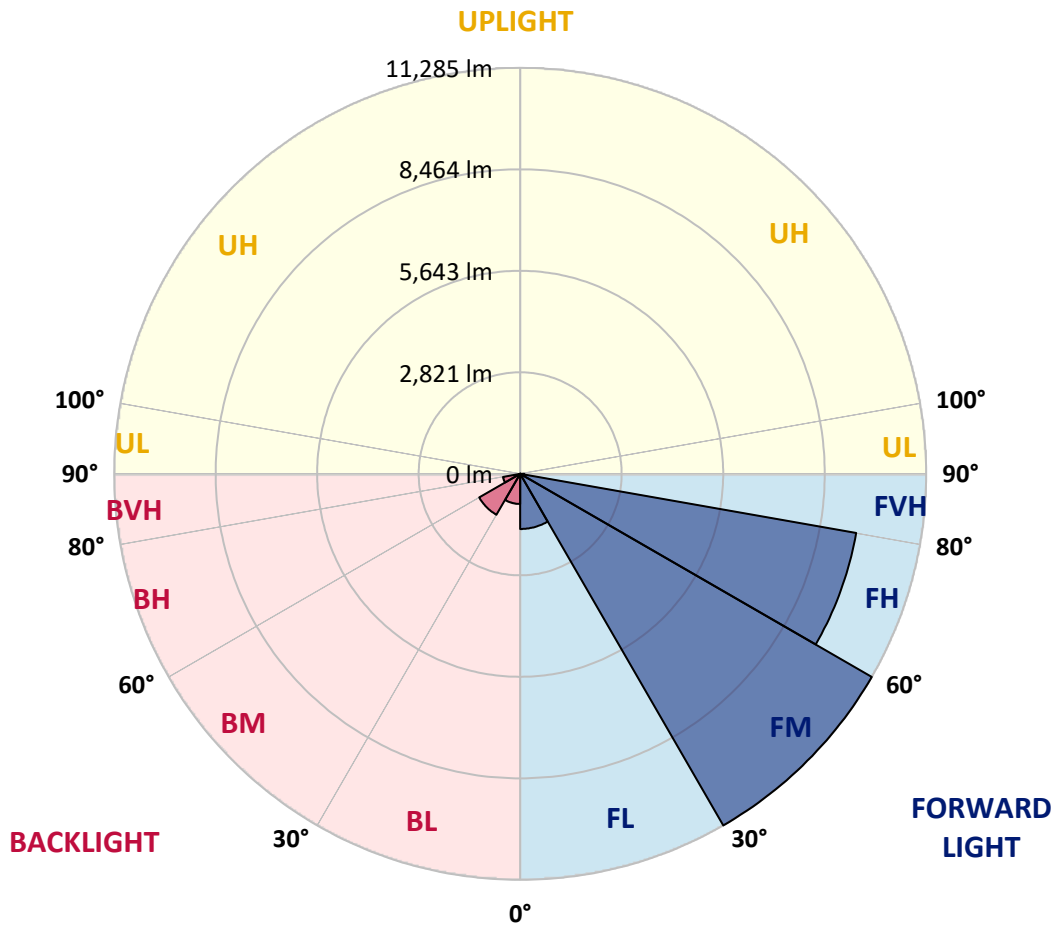
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1533.9	6.1			
FM (30°-60°)	11285.4	45.0			
FH (60°-80°)	9483.3	37.9			G4/12000
FVH (80°-90°)	110.3	0.4			G2/225
BL (0°-30°)	839.1	3.3	B2/1000		
BM (30°-60°)	1314.7	5.2	B2/2500		
BH (60°-80°)	484.2	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°	3908.0	3908.0	3908.0	3908.0	3908.0	3908.0	3908.0	3908.0	3908.0	3908.0
2.5°	3669.1	3702.3	3697.5	3719.7	3727.6	3759.2	3790.9	3833.6	3881.1	3879.5
5°	3461.8	3495.0	3502.9	3533.0	3571.0	3620.0	3684.9	3770.3	3858.9	3873.2
7.5°	3216.6	3251.4	3271.9	3332.1	3401.7	3502.9	3608.9	3733.9	3881.1	3901.6
10°	2971.3	3003.0	3029.9	3115.3	3226.1	3376.4	3548.8	3729.2	3927.0	3957.0
12.5°	2819.4	2849.5	2879.6	2953.9	3091.6	3275.1	3509.3	3751.3	4002.9	4045.6
15°	2765.6	2792.5	2816.3	2882.7	3010.9	3219.7	3501.4	3797.2	4099.4	4156.4
17.5°	2773.6	2787.8	2803.6	2854.2	2979.2	3194.4	3515.6	3876.3	4213.3	4264.0
20°	2819.4	2827.3	2828.9	2863.7	2974.5	3191.2	3544.1	3952.3	4320.9	4389.0
22.5°	2878.0	2881.1	2878.0	2901.7	3004.5	3215.0	3582.0	4044.0	4441.2	4504.5
25°	3151.7	3091.6	3015.6	2969.7	3055.2	3260.9	3639.0	4167.4	4572.5	4634.2
27.5°	4001.3	3828.9	3556.7	3251.4	3159.6	3327.3	3718.1	4292.4	4705.4	4760.8
30°	5381.0	5154.7	4692.7	4004.5	3495.0	3466.5	3821.0	4417.4	4846.2	4906.3
32.5°	6763.8	6708.4	6175.2	5222.8	4249.7	3776.7	3991.8	4586.7	5032.9	5080.4
35°	8162.4	8050.1	7613.4	6672.0	5412.6	4407.9	4276.6	4808.2	5278.1	5331.9
37.5°	9233.6	9165.5	8895.0	8119.7	6792.3	5382.6	4763.9	5151.6	5634.1	5694.2
40°	10179.7	10148.1	10056.3	9545.3	8334.9	6657.8	5521.8	5683.2	6127.8	6199.0
42.5°	10923.3	10997.7	11049.9	10907.5	9925.0	8113.4	6540.7	6430.0	6816.0	6888.8
45°	11684.4	11709.7	11920.1	12125.8	11504.0	9635.4	7689.4	7304.9	7672.0	7762.1
47.5°	12173.3	12274.5	12644.7	13007.1	12831.4	11144.8	8923.5	8338.1	8664.0	8833.3
50°	12209.6	12401.1	12910.5	13541.8	13798.1	12581.5	10265.1	9515.2	9861.7	10048.4
52.5°	11603.7	11901.1	12690.6	13614.6	14320.3	13798.1	11652.7	10692.3	11136.9	11380.6
55°	8896.6	9285.8	11863.1	13219.1	14340.8	14720.6	13003.9	11918.5	12557.7	12833.0
57.5°	7751.1	7947.3	9326.9	12532.4	13959.5	15092.4	14225.3	13086.2	14103.5	14445.3
60°	6448.9	6706.8	7822.3	11409.1	13442.2	15128.8	15304.4	14592.4	15779.0	16163.5
62.5°	4382.6	4662.7	5771.8	9478.8	12734.9	15111.4	16188.8	16142.9	17641.2	18054.2
65°	2715.0	2890.6	3621.6	7740.0	11746.1	15130.3	17114.4	18025.7	19606.3	20025.6
67.5°	2145.4	2226.1	2607.4	5942.6	10042.1	14703.1	18038.4	19796.2	21455.9	21788.1
70°	1441.4	1490.4	1897.0	3983.9	7471.0	12731.8	18021.0	20685.4	22408.3	22574.5
72.5°	759.4	797.4	1109.1	1844.8	4512.4	9050.0	15190.5	19622.1	21460.6	21210.6
75°	379.7	443.0	746.8	936.6	1927.1	5047.1	9432.9	15470.5	16891.3	15923.0
77.5°	288.0	348.1	617.0	617.0	670.8	1699.3	3995.0	8437.7	7782.7	6480.6
80°	183.5	237.3	539.5	466.7	280.0	431.9	1041.1	2363.8	1653.4	1257.8
82.5°	107.6	155.1	449.3	308.5	156.6	159.8	294.3	503.1	428.8	333.8
85°	42.7	101.3	308.5	121.8	61.7	39.6	88.6	107.6	88.6	66.5
87.5°	0.0	23.7	53.8	0.0	4.7	3.2	6.3	7.9	7.9	6.3
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°
3908.0	0°	3908.0	3908.0	3908.0	3908.0	3908.0	3908.0	3908.0	3908.0	3908.0	3908.0
3911.1	2.5°	3925.4	3928.5	3938.0	3939.6	3917.5	3889.0	3877.9	3873.2	3854.2	3852.6
3936.5	5°	3972.8	3987.1	3972.8	3931.7	3833.6	3696.0	3591.5	3506.1	3428.6	3404.8
4023.5	7.5°	4067.8	4082.0	4039.3	3877.9	3631.1	3357.4	3110.6	2936.5	2779.9	2721.3
4129.5	10°	4203.8	4222.8	4088.3	3762.4	3325.7	2885.9	2468.2	2173.9	1944.5	1851.1
4273.5	12.5°	4374.7	4382.6	4115.2	3586.8	2928.6	2300.5	1708.7	1393.9	1189.8	1113.9
4447.5	15°	4563.0	4551.9	4118.4	3347.9	2387.5	1626.5	1115.4	916.1	833.8	808.5
4621.5	17.5°	4760.8	4714.9	4055.1	3003.0	1794.2	1112.3	827.5	780.0	765.8	759.4
4794.0	20°	4955.4	4852.5	3939.6	2552.0	1287.9	830.6	751.5	737.3	729.4	726.2
4968.0	22.5°	5132.6	4957.0	3741.8	2028.3	935.1	734.1	710.4	697.7	683.5	677.2
5137.3	25°	5305.0	5017.1	3463.4	1539.5	748.4	686.7	667.7	643.9	625.0	617.0
5319.3	27.5°	5472.7	5055.0	3115.3	1139.2	667.7	642.4	607.6	574.3	560.1	556.9
5513.9	30°	5651.5	5067.7	2719.8	849.6	618.6	587.0	536.4	498.4	490.5	492.1
5776.5	32.5°	5869.9	5086.7	2321.1	696.2	577.5	520.5	460.4	420.9	414.5	420.9
6159.4	35°	6130.9	5124.7	1936.6	640.8	541.1	452.5	387.6	354.4	348.1	352.8
6649.9	37.5°	6485.3	5186.4	1577.4	629.7	511.0	395.5	325.9	299.0	299.0	300.6
7251.1	40°	6956.8	5350.9	1256.2	621.8	495.2	352.8	275.3	264.2	269.0	272.1
8016.9	42.5°	7531.2	5700.6	1039.5	612.3	477.8	333.8	250.0	245.2	253.1	256.3
8934.5	45°	8175.1	6143.6	963.5	596.5	462.0	346.5	238.9	232.6	242.1	243.7
9963.0	47.5°	8841.2	6577.1	954.1	579.1	446.2	365.5	235.7	221.5	232.6	234.2
11061.0	50°	9515.2	6860.3	963.5	552.2	420.9	365.5	237.3	210.4	219.9	224.7
12200.1	52.5°	10194.0	6990.0	957.2	493.6	376.6	343.3	237.3	200.9	210.4	213.6
13431.1	55°	10852.1	6964.7	860.7	406.6	319.6	303.8	231.0	193.0	199.4	200.9
14594.0	57.5°	11372.7	6611.9	681.9	316.4	259.5	253.1	210.4	183.5	188.3	186.7
15660.4	60°	11644.8	5836.6	487.3	243.7	204.1	199.4	185.1	170.9	174.0	166.1
16563.8	62.5°	11648.0	4811.4	325.9	193.0	163.0	158.2	158.2	153.5	150.3	134.5
17263.1	65°	11399.6	3673.8	216.8	153.5	131.3	123.4	132.9	131.3	120.2	98.1
17476.7	67.5°	10836.3	2408.1	164.5	120.2	101.3	96.5	106.0	110.8	102.8	82.3
16698.3	70°	9678.2	1401.8	136.1	93.3	75.9	71.2	85.4	94.9	85.4	66.5
14272.8	72.5°	8039.0	756.3	110.8	69.6	52.2	47.5	68.0	77.5	68.0	49.0
9157.6	75°	5216.4	405.0	85.4	45.9	26.9	30.1	50.6	57.0	47.5	31.6
2688.1	77.5°	1751.5	178.8	53.8	22.2	12.7	12.7	30.1	34.8	22.2	11.1
488.9	80°	390.8	74.4	22.2	9.5	4.7	4.7	6.3	6.3	3.2	0.0
150.3	82.5°	128.2	30.1	9.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0
38.0	85°	49.0	11.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.7	87.5°	19.0	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>
3908.0
3855.8
3390.6
2697.6
1811.6
1090.1
808.5
757.9
723.1
675.6
613.9
553.8
492.1
419.3
351.2
299.0
272.1
256.3
245.2
235.7
226.3
213.6
200.9
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