

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: P954297

Luminaire Tested: **GALN-SB7C-830-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954297
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-SB7C-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 615mA 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: 39843 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

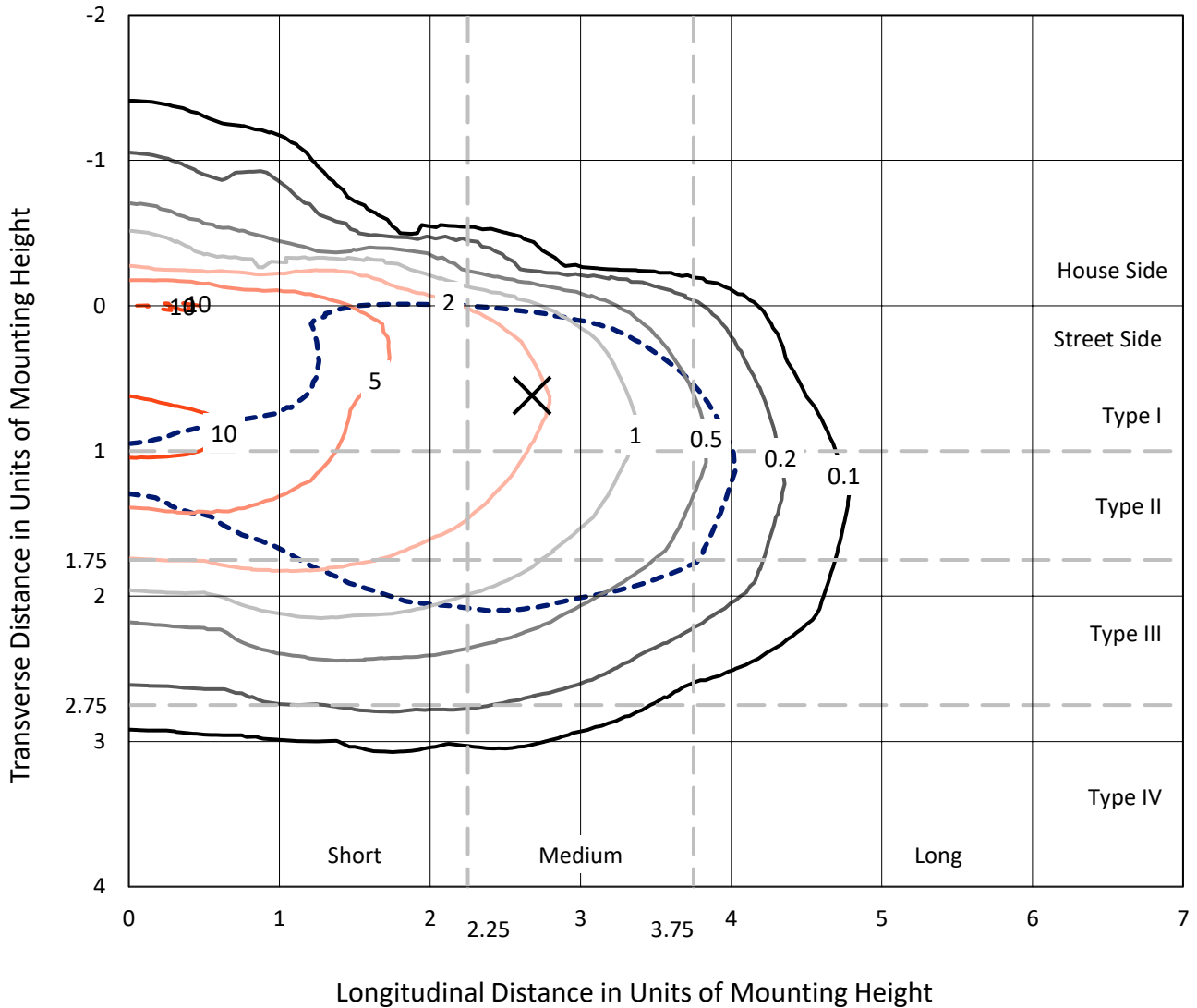
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

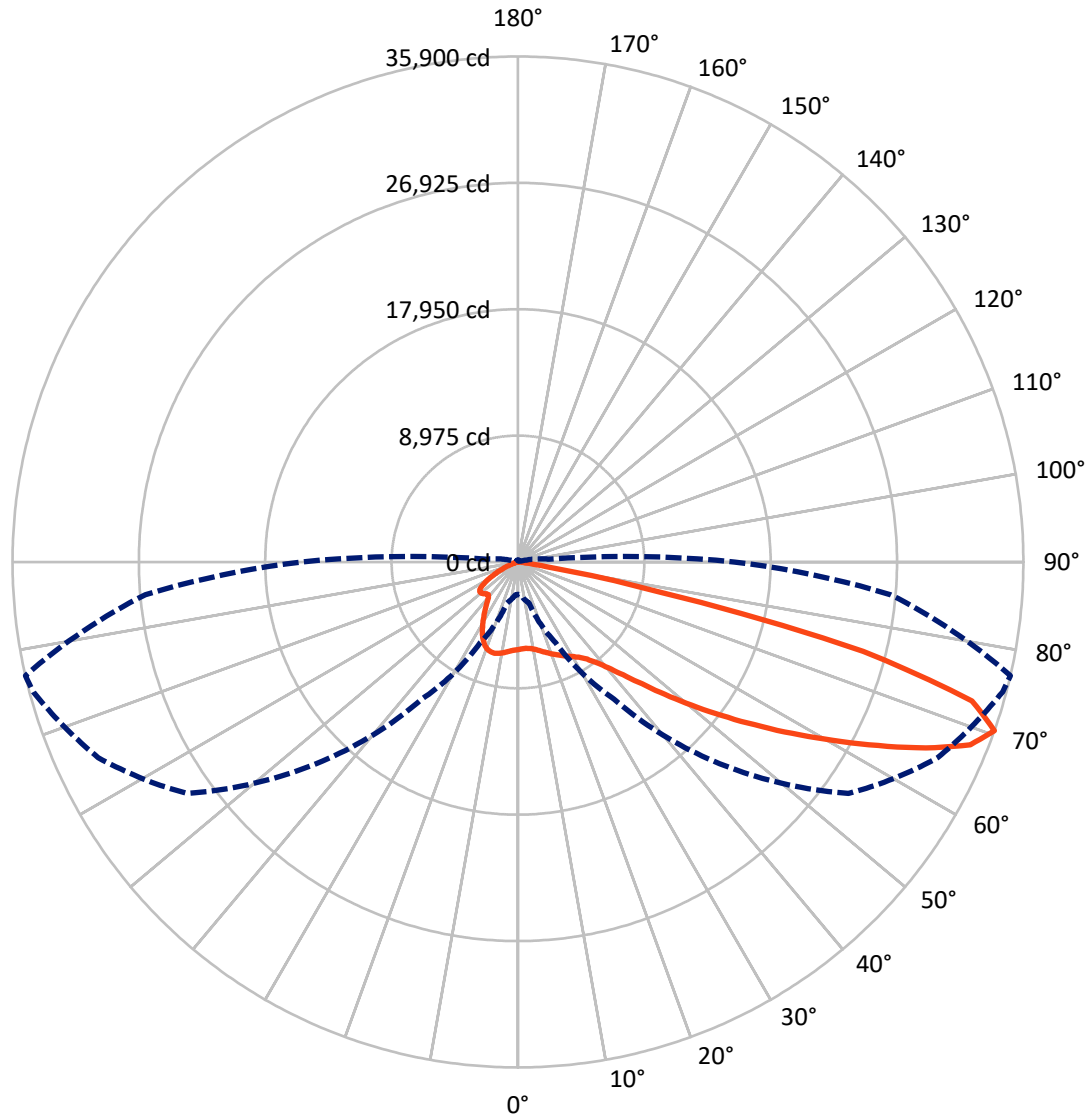
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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	4200.0	0.0	4200.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	35643.0	0.0	35643.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	39843.0	0.0	39843.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.6	1.3
10°-20°	1271.5	3.2
20°-30°	1966.6	4.9
30°-40°	3568.6	9.0
40°-50°	6736.1	16.9
50°-60°	9733.1	24.4
60°-70°	10360.7	26.0
70°-80°	5490.4	13.8
80°-90°	180.3	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°	39843.0	100.0
0°-180°	39843.0	100.0

Coefficient of Utilization



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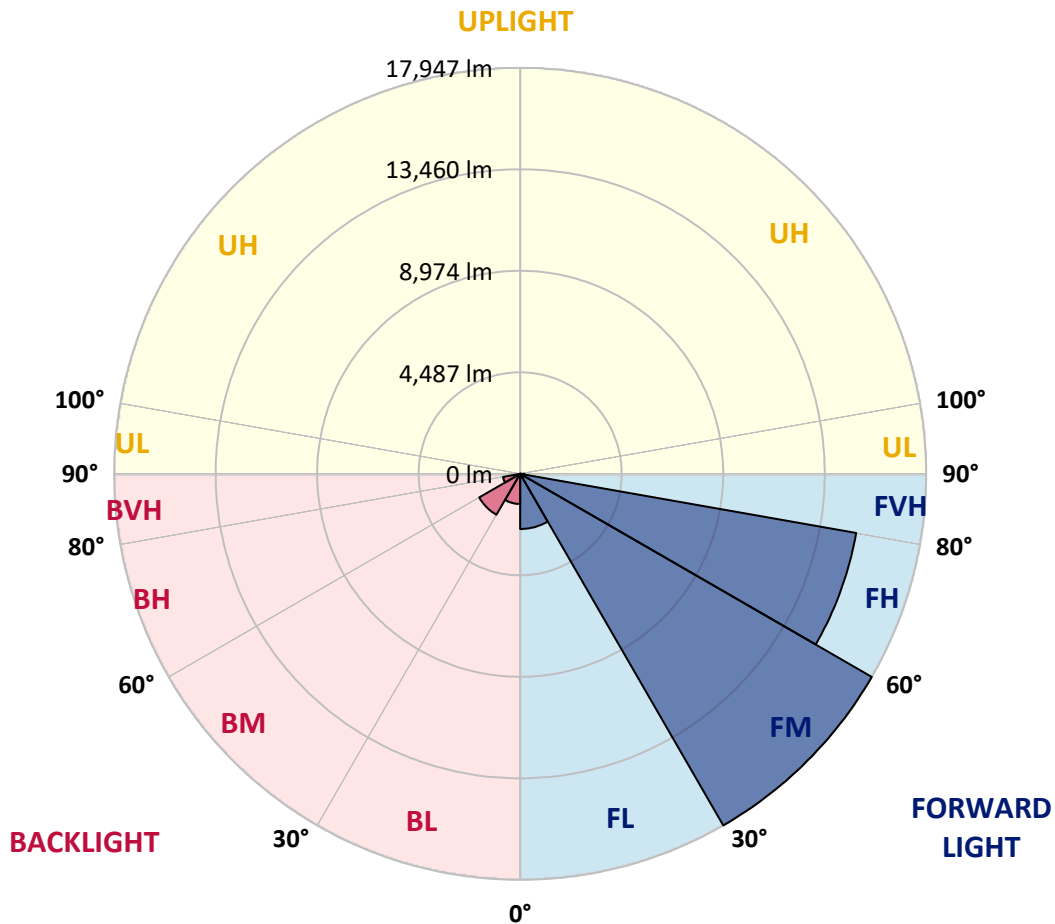
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2439.3	6.1			
FM (30°-60°)	17947.1	45.0			
FH (60°-80°)	15081.1	37.9			G5
FVH (80°-90°)	175.4	0.4			G2/225
BL (0°-30°)	1334.4	3.3	B3/2500		
BM (30°-60°)	2090.8	5.2	B2/2500		
BH (60°-80°)	770.0	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6214.8	6214.8	6214.8	6214.8	6214.8	6214.8	6214.8	6214.8	6214.8	6214.8
2.5°	5834.9	5887.7	5880.1	5915.4	5928.0	5978.3	6028.6	6096.5	6172.0	6169.5
5°	5505.2	5558.1	5570.7	5618.5	5678.9	5756.9	5860.0	5995.9	6136.8	6159.4
7.5°	5115.2	5170.6	5203.3	5298.9	5409.6	5570.7	5739.2	5938.0	6172.0	6204.7
10°	4725.3	4775.6	4818.3	4954.2	5130.3	5369.4	5643.6	5930.5	6245.0	6292.8
12.5°	4483.7	4531.5	4579.3	4697.6	4916.5	5208.3	5580.7	5965.7	6365.8	6433.7
15°	4398.2	4440.9	4478.7	4584.3	4788.2	5120.3	5568.1	6038.7	6519.2	6609.8
17.5°	4410.7	4433.4	4458.5	4539.1	4737.8	5080.0	5590.8	6164.5	6700.4	6780.9
20°	4483.7	4496.3	4498.8	4554.2	4730.3	5075.0	5636.1	6285.2	6871.5	6979.7
22.5°	4576.8	4581.8	4576.8	4614.5	4778.1	5112.7	5696.5	6431.2	7062.7	7163.4
25°	5012.1	4916.5	4795.7	4722.7	4858.6	5185.7	5787.0	6627.4	7271.6	7369.7
27.5°	6363.2	6089.0	5656.2	5170.6	5024.7	5291.4	5912.9	6826.2	7482.9	7571.0
30°	8557.3	8197.5	7462.8	6368.3	5558.1	5512.8	6076.4	7025.0	7706.8	7802.5
32.5°	10756.4	10668.3	9820.4	8305.7	6758.3	6006.0	6348.1	7294.2	8003.7	8079.2
35°	12980.6	12802.0	12107.5	10610.4	8607.6	7009.9	6801.0	7646.5	8393.7	8479.3
37.5°	14684.0	14575.8	14145.6	12912.7	10801.7	8559.8	7576.0	8192.4	8959.9	9055.5
40°	16188.6	16138.3	15992.4	15179.7	13254.9	10587.8	8781.2	9037.9	9744.9	9858.1
42.5°	17371.2	17489.5	17572.5	17346.1	15783.5	12902.6	10401.6	10225.5	10839.4	10955.1
45°	18581.5	18621.7	18956.4	19283.5	18294.6	15323.1	12228.3	11616.9	12200.6	12344.0
47.5°	19358.9	19520.0	20108.7	20684.9	20405.6	17723.5	14190.9	13259.9	13778.2	14047.4
50°	19416.8	19721.3	20531.4	21535.4	21943.0	20008.1	16324.5	15131.9	15682.9	15979.8
52.5°	18453.1	18926.2	20181.7	21651.1	22773.3	21943.0	18531.1	17003.9	17710.9	18098.4
55°	14148.1	14767.0	18865.8	21022.1	22806.0	23409.9	20679.9	18953.8	19970.4	20408.2
57.5°	12326.4	12638.4	14832.5	19930.1	22199.6	24001.2	22622.3	20810.7	22428.6	22972.1
60°	10255.7	10665.8	12439.6	18143.7	21376.9	24059.0	24338.3	23206.1	25093.2	25704.6
62.5°	6969.6	7415.0	9178.8	15074.0	20252.2	24031.4	25744.8	25671.9	28054.6	28711.3
65°	4317.6	4596.9	5759.4	12308.8	18679.6	24061.5	27216.7	28666.0	31179.6	31846.4
67.5°	3411.8	3540.2	4146.5	9450.5	15969.7	23382.2	28686.2	31481.6	34120.9	34649.3
70°	2292.2	2370.2	3016.8	6335.6	11881.1	20247.1	28658.5	32895.6	35635.6	35899.8
72.5°	1207.7	1268.1	1763.8	2933.8	7175.9	14392.1	24157.2	31204.8	34128.5	33731.0
75°	603.9	704.5	1187.6	1489.5	3064.6	8026.4	15001.0	24602.5	26862.0	25322.1
77.5°	457.9	553.5	981.3	981.3	1066.8	2702.3	6353.2	13418.4	12376.7	10306.0
80°	291.9	377.4	858.0	742.3	445.4	686.9	1655.6	3759.1	2629.3	2000.3
82.5°	171.1	246.6	714.6	490.6	249.1	254.1	468.0	800.1	681.9	530.9
85°	67.9	161.0	490.6	193.7	98.1	62.9	140.9	171.1	140.9	105.7
87.5°	0.0	37.7	85.5	0.0	7.5	5.0	10.1	12.6	12.6	10.1
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°
6214.8	0°	6214.8	6214.8	6214.8	6214.8	6214.8	6214.8	6214.8	6214.8	6214.8	6214.8
6219.8	2.5°	6242.5	6247.5	6262.6	6265.1	6229.9	6184.6	6167.0	6159.4	6129.2	6126.7
6260.1	5°	6317.9	6340.6	6317.9	6252.5	6096.5	5877.6	5711.6	5575.7	5452.4	5414.7
6398.5	7.5°	6468.9	6491.6	6423.6	6167.0	5774.5	5339.2	4946.7	4669.9	4420.8	4327.7
6567.0	10°	6685.3	6715.5	6501.6	5983.3	5288.9	4589.4	3925.1	3457.1	3092.3	2943.8
6796.0	12.5°	6957.0	6969.6	6544.4	5704.0	4657.3	3658.4	2717.4	2216.7	1892.1	1771.3
7072.8	15°	7256.5	7238.8	6549.4	5324.1	3796.8	2586.6	1773.9	1456.8	1326.0	1285.7
7349.6	17.5°	7571.0	7498.0	6448.8	4775.6	2853.3	1768.8	1315.9	1240.4	1217.8	1207.7
7623.8	20°	7880.5	7716.9	6265.1	4058.5	2048.1	1321.0	1195.2	1172.5	1159.9	1154.9
7900.6	22.5°	8162.3	7883.0	5950.6	3225.7	1487.0	1167.5	1129.7	1109.6	1087.0	1076.9
8169.8	25°	8436.5	7978.6	5507.8	2448.2	1190.1	1092.0	1061.8	1024.1	993.9	981.3
8459.2	27.5°	8703.2	8039.0	4954.2	1811.6	1061.8	1021.5	966.2	913.3	890.7	885.7
8768.6	30°	8987.5	8059.1	4325.2	1351.2	983.8	933.5	853.0	792.6	780.0	782.5
9186.3	32.5°	9334.8	8089.3	3691.1	1107.1	918.4	827.8	732.2	669.3	659.2	669.3
9795.2	35°	9749.9	8149.7	3079.7	1019.0	860.5	719.6	616.4	563.6	553.5	561.1
10575.2	37.5°	10313.5	8247.8	2508.6	1001.4	812.7	629.0	518.3	475.5	475.5	478.1
11531.3	40°	11063.3	8509.5	1997.8	988.8	787.5	561.1	437.8	420.2	427.7	432.8
12749.1	42.5°	11976.7	9065.5	1653.1	973.7	759.9	530.9	397.5	390.0	402.6	407.6
14208.5	45°	13000.7	9770.0	1532.3	948.6	734.7	551.0	379.9	369.9	385.0	387.5
15843.9	47.5°	14060.0	10459.5	1517.2	920.9	709.5	581.2	374.9	352.3	369.9	372.4
17590.1	50°	15131.9	10909.8	1532.3	878.1	669.3	581.2	377.4	334.6	349.7	357.3
19401.7	52.5°	16211.3	11116.2	1522.2	785.0	598.8	546.0	377.4	319.5	334.6	339.7
21359.2	55°	17258.0	11075.9	1368.8	646.6	508.3	483.1	367.4	307.0	317.0	319.5
23208.6	57.5°	18085.8	10514.8	1084.4	503.2	412.6	402.6	334.6	291.9	299.4	296.9
24904.4	60°	18518.6	9281.9	775.0	387.5	324.6	317.0	294.4	271.7	276.8	264.2
26341.1	62.5°	18523.6	7651.5	518.3	307.0	259.2	251.6	251.6	244.1	239.0	213.9
27453.3	65°	18128.6	5842.4	344.7	244.1	208.8	196.3	211.4	208.8	191.2	156.0
27792.9	67.5°	17232.8	3829.5	261.7	191.2	161.0	153.5	168.6	176.1	163.5	130.8
26555.0	70°	15391.0	2229.3	216.4	148.5	120.8	113.2	135.9	151.0	135.9	105.7
22697.8	72.5°	12784.3	1202.7	176.1	110.7	83.0	75.5	108.2	123.3	108.2	78.0
14563.2	75°	8295.6	644.1	135.9	73.0	42.8	47.8	80.5	90.6	75.5	50.3
4274.9	77.5°	2785.3	284.3	85.5	35.2	20.1	20.1	47.8	55.4	35.2	17.6
777.5	80°	621.5	118.3	35.2	15.1	7.5	7.5	10.1	10.1	5.0	0.0
239.0	82.5°	203.8	47.8	15.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0
60.4	85°	78.0	17.6	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.1	87.5°	30.2	2.5	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>
6214.8
6131.8
5392.0
4290.0
2880.9
1733.6
1285.7
1205.2
1149.9
1074.4
976.3
880.6
782.5
666.8
558.6
475.5
432.8
407.6
390.0
374.9
359.8
339.7
319.5
296.9
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128.3
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