

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: P941196

Luminaire Tested: **GALN-SB4C-840-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941196
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-SB4C-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 4000K, 615mA 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: 22516 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

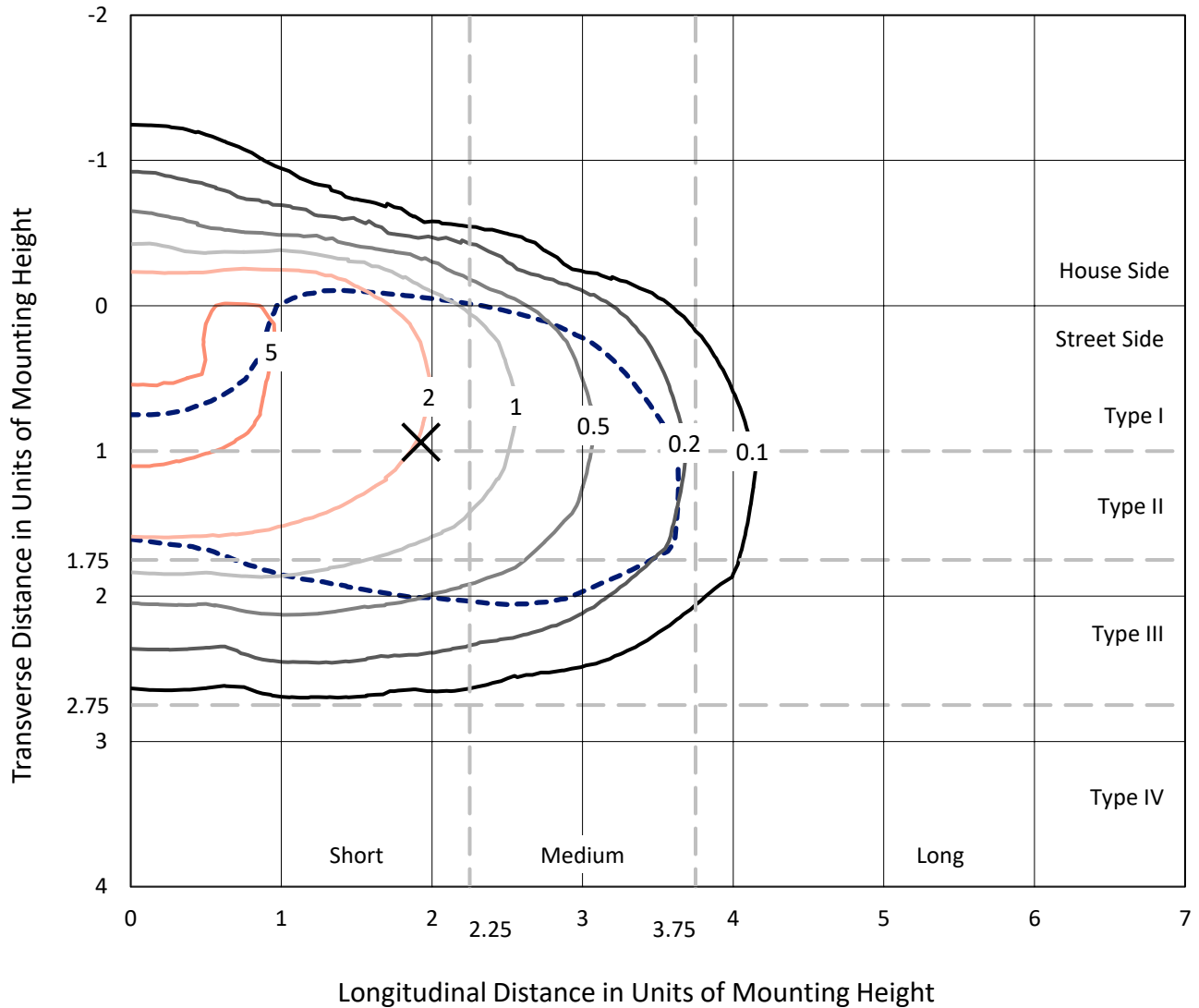
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

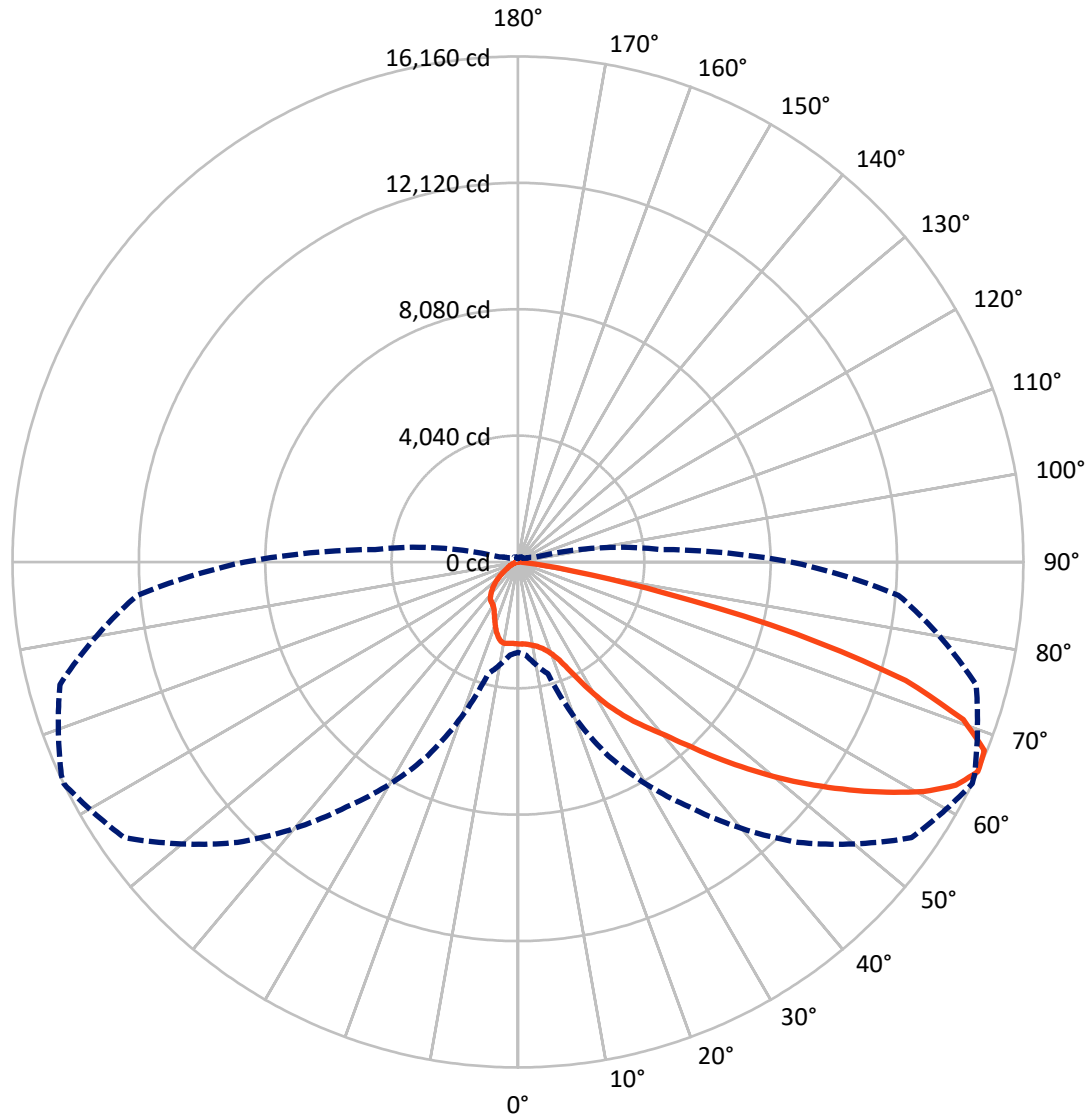
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	3011.1	0.0	3011.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	19504.9	0.0	19504.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	22516.0	0.0	22516.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.6	1.1
10°-20°	655.3	2.9
20°-30°	1241.8	5.5
30°-40°	2512.8	11.2
40°-50°	4280.6	19.0
50°-60°	5821.3	25.9
60°-70°	5466.4	24.3
70°-80°	2190.1	9.7
80°-90°	106.1	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°	22516.0	100.0
0°-180°	22516.0	100.0

Coefficient of Utilization



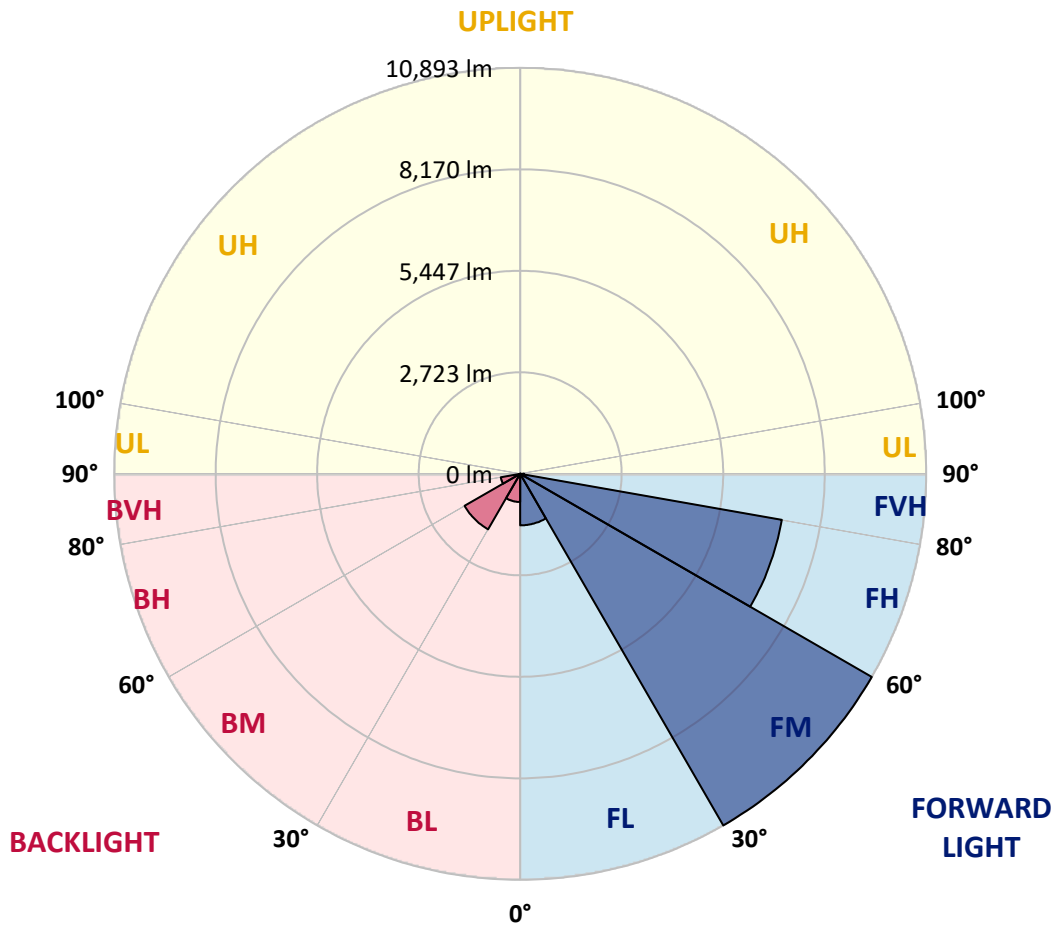
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1382.7	6.1			
FM (30°-60°)	10893.2	48.4			
FH (60°-80°)	7128.0	31.7			G3/7500
FVH (80°-90°)	100.9	0.4			G2/225
BL (0°-30°)	756.0	3.4	B2/1000		
BM (30°-60°)	1721.4	7.6	B2/2500		
BH (60°-80°)	528.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.2	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	2618.8	2618.8	2618.8	2618.8	2618.8	2618.8	2618.8	2618.8	2618.8	2618.8
2.5°	2609.8	2627.9	2623.4	2618.8	2617.3	2620.4	2621.9	2620.4	2620.4	2620.4
5°	2560.0	2575.1	2575.1	2585.6	2600.7	2618.8	2632.4	2635.4	2638.5	2643.0
7.5°	2464.9	2477.0	2486.0	2520.7	2558.5	2606.8	2647.5	2668.7	2671.7	2688.3
10°	2400.0	2415.1	2430.2	2466.4	2520.7	2593.2	2662.6	2713.9	2721.5	2760.7
12.5°	2397.0	2412.1	2431.7	2470.9	2534.3	2611.3	2695.8	2769.8	2783.4	2840.7
15°	2428.7	2446.8	2464.9	2513.2	2581.1	2674.7	2765.3	2857.3	2870.9	2952.4
17.5°	2493.6	2517.7	2531.3	2579.6	2652.1	2756.2	2875.4	2981.1	2993.2	3088.3
20°	2621.9	2650.5	2655.1	2694.3	2765.3	2877.0	3018.8	3150.2	3165.3	3273.9
22.5°	2887.5	2928.3	2892.0	2911.7	2975.1	3086.8	3240.7	3406.8	3427.9	3551.7
25°	3355.4	3412.8	3319.2	3286.0	3313.2	3429.4	3622.6	3832.4	3856.6	3956.2
27.5°	4274.7	4200.7	4058.8	3920.0	3838.5	3904.9	4122.2	4381.8	4412.0	4508.6
30°	5284.5	5219.6	5027.9	4720.0	4526.8	4516.2	4716.9	5006.7	5041.5	5133.5
32.5°	6295.8	6233.9	6025.6	5646.7	5311.7	5145.6	5284.5	5606.0	5624.1	5683.0
35°	7290.5	7227.1	7018.8	6630.9	6218.8	5841.5	5814.3	6176.5	6182.6	6244.5
37.5°	8291.2	8238.4	8016.5	7636.2	7230.1	6709.4	6457.3	6716.9	6724.5	6784.8
40°	9005.2	9027.8	8875.4	8581.1	8232.4	7663.3	7178.8	7292.0	7246.7	7347.9
42.5°	9618.0	9663.3	9530.5	9382.6	9180.3	8679.2	8072.4	8052.8	7980.3	8034.6
45°	10147.8	10185.6	10066.3	10031.6	10027.1	9675.4	9049.0	8931.2	8830.1	8819.5
47.5°	10342.5	10415.0	10466.3	10582.5	10809.0	10661.0	10058.8	9876.1	9762.9	9679.9
50°	10416.5	10493.5	10668.6	11006.7	11542.5	11605.9	11064.1	10858.8	10719.9	10569.0
52.5°	10316.9	10454.2	10689.7	11258.8	12036.1	12363.7	12028.6	11849.0	11690.5	11444.4
55°	9729.7	9867.1	10348.6	11255.7	12282.2	12895.0	12940.3	12860.3	12682.2	12294.2
57.5°	8492.0	8695.8	9458.0	10872.4	12277.6	13352.3	13833.8	13891.2	13692.0	13136.5
60°	6777.3	7053.5	7983.3	10022.6	11898.8	13599.9	14617.2	14904.0	14692.7	13966.7
62.5°	4729.0	5049.0	5929.0	8691.2	11032.4	13421.8	15189.3	15719.1	15559.1	14709.3
65°	2884.5	2987.1	3696.6	6839.2	9559.2	12676.1	15365.9	16159.9	16107.0	15163.6
67.5°	1921.5	2007.5	2211.3	4689.8	7420.3	11186.3	14943.3	16082.9	16098.0	15089.7
70°	1157.7	1231.7	1364.5	2727.5	4809.0	8854.3	13634.6	15101.8	15189.3	14101.0
72.5°	477.0	526.8	647.5	1236.2	2490.5	5619.6	10857.3	12965.9	13169.7	11856.5
75°	270.2	295.8	380.4	620.4	1080.7	2618.8	6576.5	9204.4	9504.8	8172.0
77.5°	179.6	191.7	246.0	401.5	608.3	893.6	2810.5	4795.4	5369.0	4463.4
80°	120.8	131.3	169.1	268.7	395.5	383.4	895.1	1776.6	2185.6	1533.6
82.5°	81.5	83.0	120.8	176.6	250.6	185.7	264.1	552.4	694.3	443.8
85°	46.8	45.3	89.1	102.6	111.7	77.0	80.0	166.0	217.4	187.2
87.5°	6.0	9.1	34.7	27.2	15.1	16.6	16.6	28.7	42.3	45.3
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°
2618.8	0°	2618.8	2618.8	2618.8	2618.8	2618.8	2618.8	2618.8	2618.8	2618.8	2618.8
2621.9	2.5°	2621.9	2620.4	2615.8	2611.3	2600.7	2594.7	2597.7	2594.7	2593.2	2594.7
2641.5	5°	2641.5	2637.0	2624.9	2609.8	2588.7	2563.0	2546.4	2522.2	2499.6	2486.0
2694.3	7.5°	2694.3	2689.8	2673.2	2630.9	2563.0	2455.8	2357.7	2271.7	2206.8	2169.0
2778.8	10°	2778.8	2771.3	2745.6	2652.1	2473.9	2240.0	2045.3	1883.8	1778.1	1728.3
2878.5	12.5°	2878.5	2869.4	2824.1	2632.4	2304.9	1939.6	1670.9	1491.3	1393.2	1349.4
2993.2	15°	2996.2	2984.1	2895.1	2538.8	2058.8	1607.5	1361.5	1227.2	1163.8	1124.5
3139.6	17.5°	3142.6	3121.5	2947.9	2398.5	1791.7	1354.0	1171.3	1070.2	1014.3	976.6
3331.3	20°	3332.8	3298.1	2990.2	2230.9	1545.6	1194.0	1043.0	958.5	916.2	883.0
3603.0	22.5°	3598.5	3548.6	3041.5	2049.8	1372.1	1083.8	947.9	886.0	851.3	813.6
3981.9	25°	3927.5	3868.6	3104.9	1882.2	1252.8	988.7	878.5	827.2	786.4	742.6
4478.5	27.5°	4387.9	4282.2	3180.3	1744.9	1150.2	907.2	815.1	757.7	710.9	674.7
5041.5	30°	4901.1	4727.5	3246.8	1661.9	1056.6	831.7	732.1	674.7	630.9	605.3
5547.1	32.5°	5387.1	5151.7	3290.5	1625.6	972.1	745.7	641.5	579.6	546.4	538.9
6042.2	35°	5846.0	5535.0	3286.0	1590.9	896.6	659.6	552.4	489.1	463.4	467.9
6575.0	37.5°	6374.3	5944.1	3254.3	1536.6	834.7	581.1	475.5	419.6	397.0	398.5
7222.6	40°	6988.6	6416.5	3234.7	1433.9	766.8	508.7	412.1	366.8	350.2	344.1
7904.8	42.5°	7643.7	6873.9	3237.7	1317.7	682.3	443.8	368.3	330.6	315.5	310.9
8664.1	45°	8301.8	7310.1	3242.2	1197.0	593.2	394.0	336.6	304.9	295.8	289.8
9433.9	47.5°	8920.7	7681.4	3157.7	1067.2	505.7	356.2	310.9	289.8	282.3	274.7
10206.7	50°	9497.3	7929.0	2953.9	916.2	436.2	326.0	291.3	276.2	268.7	261.1
10907.1	52.5°	9945.6	7968.2	2617.3	760.7	387.9	303.4	279.2	265.7	256.6	249.1
11473.1	55°	10144.8	7722.2	2138.8	615.8	350.2	283.8	267.2	253.6	243.0	235.5
11918.4	57.5°	10093.5	7204.5	1667.9	495.1	314.0	264.1	252.1	243.0	230.9	218.9
12279.1	60°	9841.4	6511.6	1257.3	412.1	280.8	243.0	235.5	227.9	211.3	193.2
12418.0	62.5°	9405.2	5640.7	896.6	341.1	244.5	218.9	215.8	209.8	185.7	152.5
12212.7	65°	8738.0	4582.6	603.8	283.8	209.8	191.7	193.2	182.6	150.9	113.2
11461.0	67.5°	7762.9	3350.9	386.4	232.5	175.1	160.0	161.5	155.5	128.3	96.6
10036.1	70°	6520.7	2218.8	252.1	176.6	140.4	123.8	132.8	134.3	108.7	78.5
7702.6	72.5°	4780.3	1310.2	176.6	131.3	102.6	86.0	108.7	111.7	87.5	58.9
4633.9	75°	2724.5	621.9	132.8	95.1	63.4	60.4	84.5	84.5	60.4	39.2
2006.0	77.5°	1144.1	259.6	93.6	61.9	36.2	34.7	57.4	52.8	30.2	18.1
489.1	80°	330.6	116.2	49.8	30.2	15.1	13.6	22.6	16.6	7.5	3.0
185.7	82.5°	129.8	51.3	19.6	12.1	6.0	6.0	3.0	0.0	0.0	0.0
105.7	85°	77.0	21.1	9.1	4.5	1.5	0.0	0.0	0.0	0.0	0.0
22.6	87.5°	19.6	4.5	3.0	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>
2618.8
2600.7
2489.0
2170.5
1723.8
1344.9
1126.0
973.6
877.0
807.5
738.1
667.2
600.7
543.4
467.9
404.5
342.6
309.4
289.8
274.7
261.1
247.5
234.0
217.4
190.2
149.4
110.2
92.1
75.5
55.8
36.2
18.1
3.0
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