

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: P943556

Luminaire Tested: **GALN-SB8A-830-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943556
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-SB8A-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 350mA 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: 25562 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

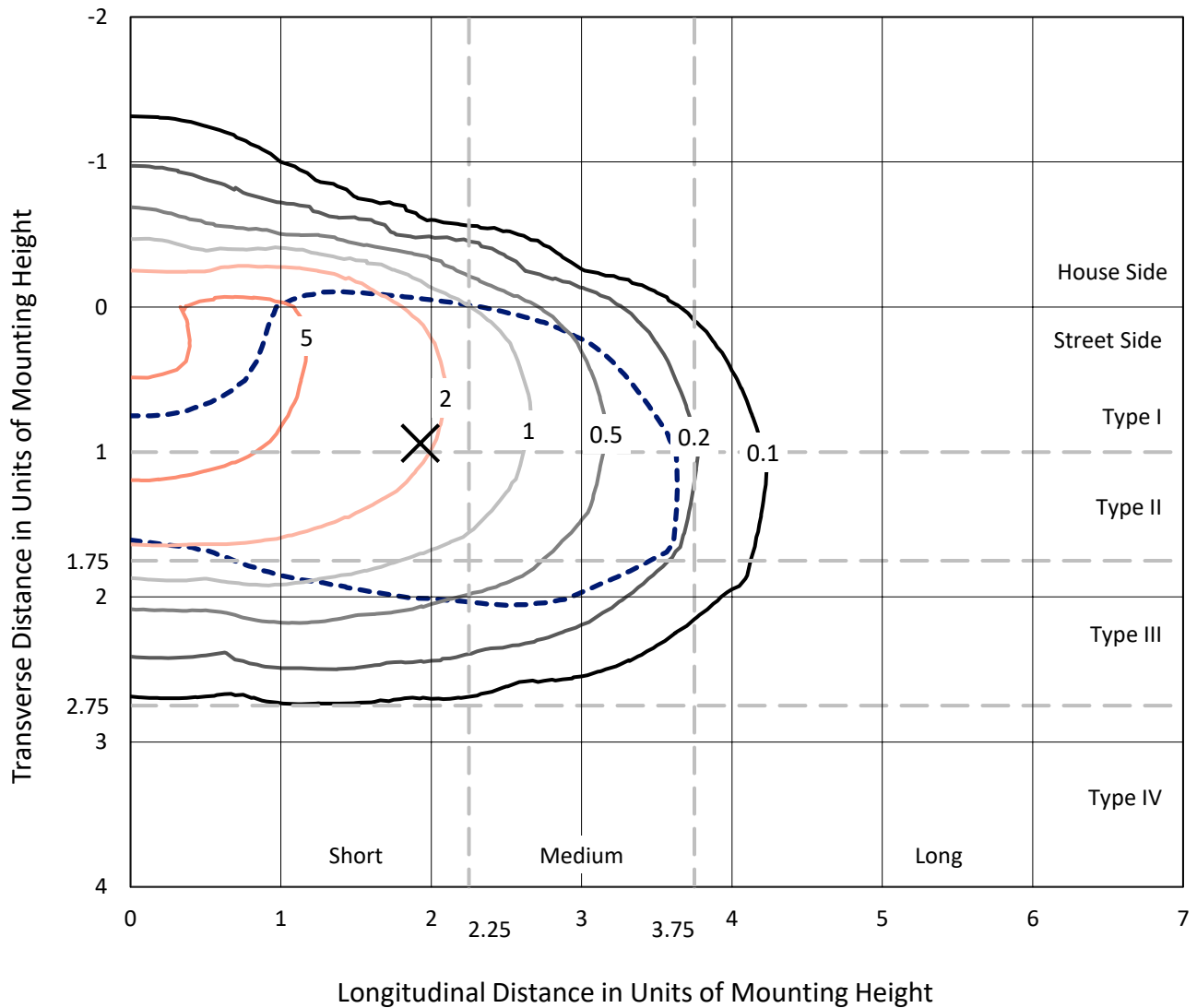
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943556
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Iso-Footcandle Lines of Horizontal Illumination

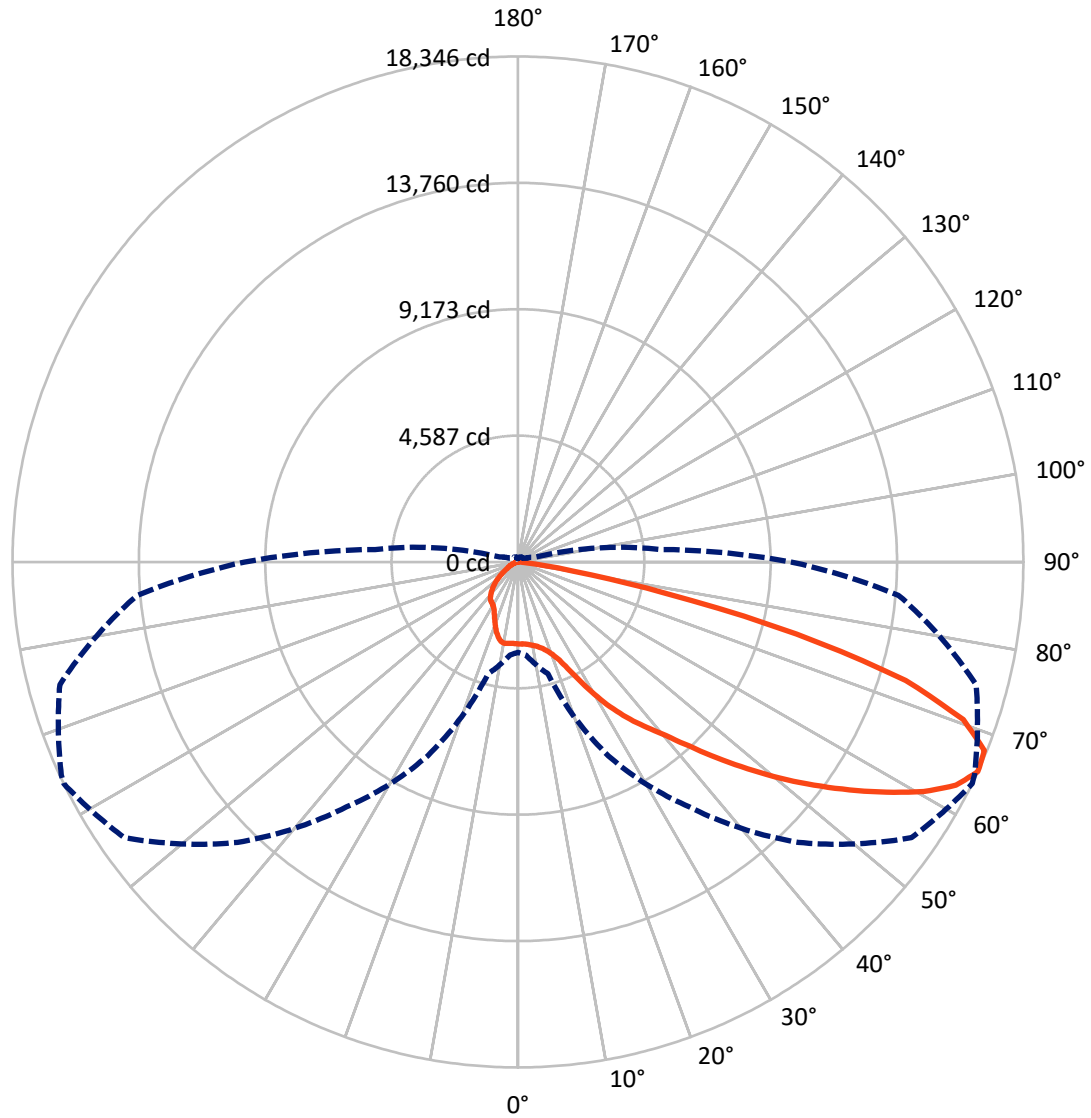
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Short - N/A

REPORT NUMBER: P943556
CATALOG NUMBER: GALN-SB8A-830-U-T3-HSS

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	3418.4	0.0	3418.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	22143.6	0.0	22143.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	25562.0	0.0	25562.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.3	1.1
10°-20°	744.0	2.9
20°-30°	1409.8	5.5
30°-40°	2852.7	11.2
40°-50°	4859.7	19.0
50°-60°	6608.8	25.9
60°-70°	6206.0	24.3
70°-80°	2486.4	9.7
80°-90°	120.5	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°	25562.0	100.0
0°-180°	25562.0	100.0

Coefficient of Utilization



REPORT NUMBER: P943556

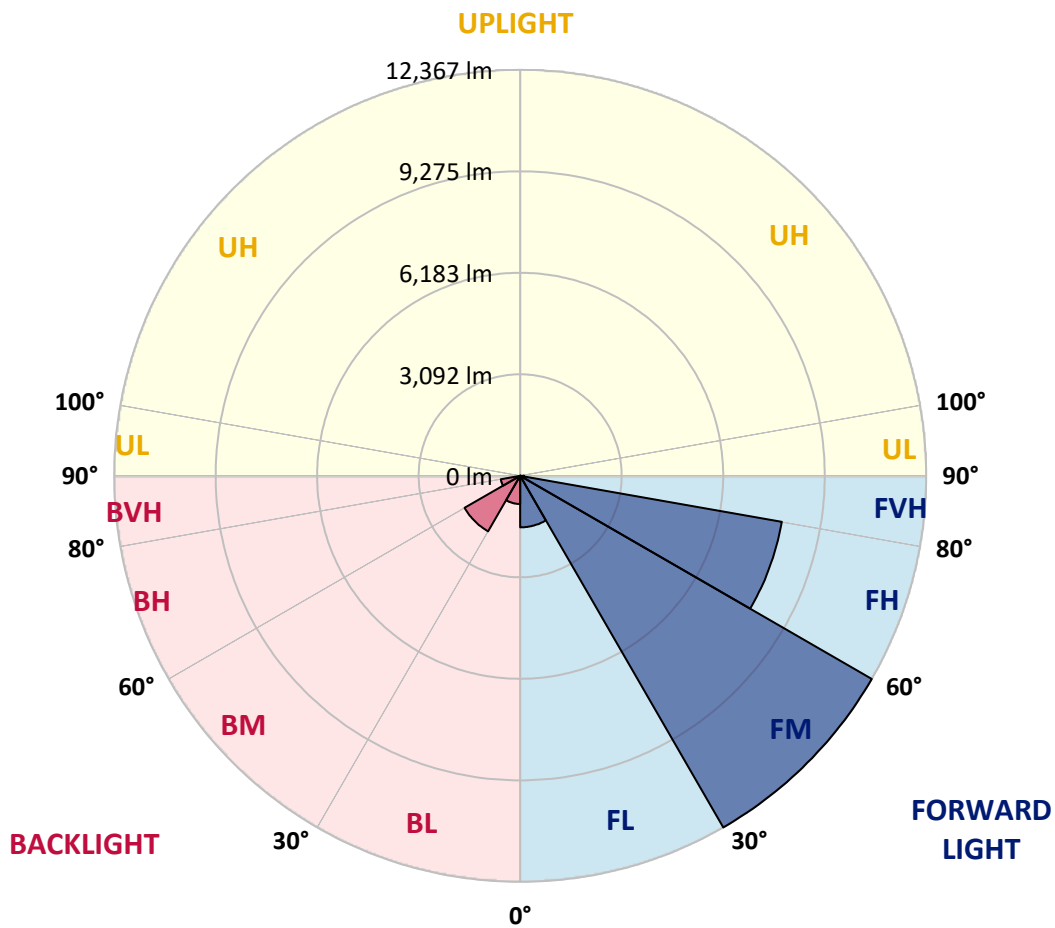
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1569.8	6.1			
FM (30°-60°)	12366.9	48.4			
FH (60°-80°)	8092.3	31.7			G4/12000
FVH (80°-90°)	114.6	0.4			G2/225
BL (0°-30°)	858.3	3.4	B2/1000		
BM (30°-60°)	1954.3	7.6	B2/2500		
BH (60°-80°)	600.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.9	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 Short



REPORT NUMBER: P943556
 CATALOG NUMBER: GALN-SB8A-830-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	2973.1	2973.1	2973.1	2973.1	2973.1	2973.1	2973.1	2973.1	2973.1	2973.1
2.5°	2962.8	2983.4	2978.3	2973.1	2971.4	2974.8	2976.6	2974.8	2974.8	2974.8
5°	2906.3	2923.4	2923.4	2935.4	2952.6	2973.1	2988.5	2992.0	2995.4	3000.5
7.5°	2798.3	2812.0	2822.3	2861.7	2904.6	2959.4	3005.7	3029.7	3033.1	3052.0
10°	2724.7	2741.8	2758.9	2800.1	2861.7	2944.0	3022.8	3081.1	3089.7	3134.2
12.5°	2721.2	2738.4	2760.6	2805.2	2877.2	2964.6	3060.5	3144.5	3159.9	3225.0
15°	2757.2	2777.8	2798.3	2853.2	2930.3	3036.5	3139.3	3243.9	3259.3	3351.8
17.5°	2830.9	2858.3	2873.7	2928.6	3010.8	3129.1	3264.4	3384.4	3398.1	3506.1
20°	2976.6	3009.1	3014.3	3058.8	3139.3	3266.2	3427.2	3576.3	3593.5	3716.8
22.5°	3278.1	3324.4	3283.3	3305.6	3377.5	3504.3	3679.1	3867.6	3891.6	4032.1
25°	3809.4	3874.5	3768.2	3730.5	3761.4	3893.3	4112.7	4350.9	4378.3	4491.4
27.5°	4853.0	4769.0	4607.9	4450.3	4357.7	4433.1	4679.9	4974.6	5008.9	5118.6
30°	5999.4	5925.7	5708.1	5358.5	5139.1	5127.1	5355.1	5684.1	5723.5	5828.0
32.5°	7147.5	7077.2	6840.8	6410.6	6030.2	5841.7	5999.4	6364.4	6384.9	6451.8
35°	8276.8	8204.8	7968.3	7527.9	7060.1	6631.7	6600.9	7012.1	7019.0	7089.2
37.5°	9412.9	9352.9	9101.0	8669.2	8208.2	7617.0	7330.9	7625.6	7634.2	7702.7
40°	10223.4	10249.1	10076.1	9741.9	9346.1	8700.0	8150.0	8278.5	8227.1	8341.9
42.5°	10919.2	10970.6	10819.8	10651.8	10422.2	9853.3	9164.4	9142.1	9059.9	9121.6
45°	11520.6	11563.5	11428.1	11388.7	11383.6	10984.3	10273.1	10139.5	10024.7	10012.7
47.5°	11741.7	11824.0	11882.2	12014.2	12271.2	12103.3	11419.5	11212.2	11083.7	10989.4
50°	11825.7	11913.1	12111.8	12495.7	13104.0	13176.0	12560.8	12327.8	12170.1	11998.7
52.5°	11712.6	11868.5	12135.8	12781.9	13664.4	14036.2	13655.8	13451.9	13272.0	12992.6
55°	11046.0	11201.9	11748.6	12778.4	13943.7	14639.4	14690.8	14600.0	14397.8	13957.4
57.5°	9640.8	9872.1	10737.5	12343.2	13938.6	15158.7	15705.3	15770.4	15544.2	14913.6
60°	7694.1	8007.7	9063.3	11378.4	13508.4	15439.7	16594.7	16920.3	16680.4	15856.1
62.5°	5368.8	5732.0	6731.1	9867.0	12524.8	15237.5	17244.1	17845.6	17664.0	16699.2
65°	3274.7	3391.2	4196.6	7764.4	10852.3	14391.0	17444.6	18346.0	18286.0	17215.0
67.5°	2181.4	2279.1	2510.4	5324.2	8424.1	12699.6	16964.8	18258.6	18275.7	17131.0
70°	1314.3	1398.3	1549.1	3096.5	5459.6	10052.1	15479.1	17144.7	17244.1	16008.6
72.5°	541.5	598.1	735.1	1403.5	2827.5	6379.8	12326.0	14720.0	14951.3	13460.5
75°	306.7	335.9	431.8	704.3	1226.9	2973.1	7466.2	10449.6	10790.6	9277.5
77.5°	203.9	217.6	279.3	455.8	690.6	1014.5	3190.8	5444.2	6095.3	5067.2
80°	137.1	149.1	191.9	305.0	449.0	435.3	1016.2	2016.9	2481.3	1741.0
82.5°	92.5	94.2	137.1	200.5	284.5	210.8	299.9	627.2	788.3	503.8
85°	53.1	51.4	101.1	116.5	126.8	87.4	90.8	188.5	246.8	212.5
87.5°	6.9	10.3	39.4	30.8	17.1	18.8	18.8	32.6	48.0	51.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943556
 CATALOG NUMBER: GALN-SB8A-830-U-T3-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2973.1	0°	2973.1	2973.1	2973.1	2973.1	2973.1	2973.1	2973.1	2973.1	2973.1	2973.1
2976.6	2.5°	2976.6	2974.8	2969.7	2964.6	2952.6	2945.7	2949.1	2945.7	2944.0	2945.7
2998.8	5°	2998.8	2993.7	2980.0	2962.8	2938.9	2909.7	2890.9	2863.5	2837.8	2822.3
3058.8	7.5°	3058.8	3053.7	3034.8	2986.8	2909.7	2788.1	2676.7	2579.0	2505.3	2462.5
3154.8	10°	3154.8	3146.2	3117.1	3010.8	2808.6	2543.0	2322.0	2138.6	2018.6	1962.1
3267.9	12.5°	3267.9	3257.6	3206.2	2988.5	2616.7	2202.0	1897.0	1693.1	1581.7	1532.0
3398.1	15°	3401.5	3387.8	3286.7	2882.3	2337.4	1825.0	1545.7	1393.2	1321.2	1276.6
3564.3	17.5°	3567.8	3543.8	3346.7	2722.9	2034.1	1537.1	1329.8	1215.0	1151.6	1108.7
3782.0	20°	3783.7	3744.3	3394.7	2532.7	1754.7	1355.5	1184.1	1088.1	1040.2	1002.5
4090.4	22.5°	4085.3	4028.7	3452.9	2327.1	1557.7	1230.4	1076.2	1005.9	966.5	923.6
4520.5	25°	4458.8	4392.0	3524.9	2136.9	1422.3	1122.4	997.3	939.1	892.8	843.1
5084.3	27.5°	4981.5	4861.5	3610.6	1980.9	1305.8	1029.9	925.4	860.2	807.1	766.0
5723.5	30°	5564.1	5367.0	3686.0	1886.7	1199.5	944.2	831.1	766.0	716.3	687.2
6297.5	32.5°	6115.9	5848.6	3735.7	1845.6	1103.6	846.5	728.3	658.0	620.3	611.8
6859.6	35°	6636.8	6283.8	3730.5	1806.2	1017.9	748.9	627.2	555.2	526.1	531.2
7464.5	37.5°	7236.6	6748.2	3694.6	1744.5	947.6	659.7	539.8	476.4	450.7	452.4
8199.7	40°	7934.0	7284.6	3672.3	1627.9	870.5	577.5	467.8	416.4	397.6	390.7
8974.2	42.5°	8677.8	7803.8	3675.7	1496.0	774.6	503.8	418.1	375.3	358.1	353.0
9836.2	45°	9424.9	8299.0	3680.8	1358.9	673.5	447.3	382.1	346.2	335.9	329.0
10710.1	47.5°	10127.5	8720.6	3584.9	1211.5	574.1	404.4	353.0	329.0	320.4	311.9
11587.5	50°	10782.1	9001.6	3353.5	1040.2	495.2	370.1	330.7	313.6	305.0	296.5
12382.6	52.5°	11291.0	9046.2	2971.4	863.7	440.4	344.4	317.0	301.6	291.3	282.7
13025.2	55°	11517.2	8766.9	2428.2	699.2	397.6	322.2	303.3	287.9	275.9	267.3
13530.7	57.5°	11459.0	8179.1	1893.5	562.1	356.4	299.9	286.2	275.9	262.2	248.5
13940.3	60°	11172.8	7392.5	1427.4	467.8	318.7	275.9	267.3	258.8	239.9	219.3
14097.9	62.5°	10677.5	6403.8	1017.9	387.3	277.6	248.5	245.0	238.2	210.8	173.1
13864.9	65°	9920.1	5202.5	685.4	322.2	238.2	217.6	219.3	207.3	171.4	128.5
13011.5	67.5°	8813.1	3804.2	438.7	263.9	198.8	181.6	183.4	176.5	145.7	109.7
11393.8	70°	7402.8	2519.0	286.2	200.5	159.4	140.5	150.8	152.5	123.4	89.1
8744.6	72.5°	5427.0	1487.4	200.5	149.1	116.5	97.7	123.4	126.8	99.4	66.8
5260.8	75°	3093.1	706.0	150.8	108.0	72.0	68.5	96.0	96.0	68.5	44.6
2277.4	77.5°	1298.9	294.7	106.2	70.3	41.1	39.4	65.1	60.0	34.3	20.6
555.2	80°	375.3	131.9	56.5	34.3	17.1	15.4	25.7	18.8	8.6	3.4
210.8	82.5°	147.4	58.3	22.3	13.7	6.9	6.9	3.4	0.0	0.0	0.0
120.0	85°	87.4	24.0	10.3	5.1	1.7	0.0	0.0	0.0	0.0	0.0
25.7	87.5°	22.3	5.1	3.4	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

(END O

<u>180°</u>
2973.1
2952.6
2825.8
2464.2
1957.0
1526.8
1278.4
1105.3
995.6
916.8
838.0
757.4
682.0
616.9
531.2
459.2
389.0
351.3
329.0
311.9
296.5
281.0
265.6
246.8
215.9
169.6
125.1
104.5
85.7
63.4
41.1
20.6
3.4
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