

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: P942356

Luminaire Tested: **GALN-SB6B-827-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942356  
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-SB6B-827-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

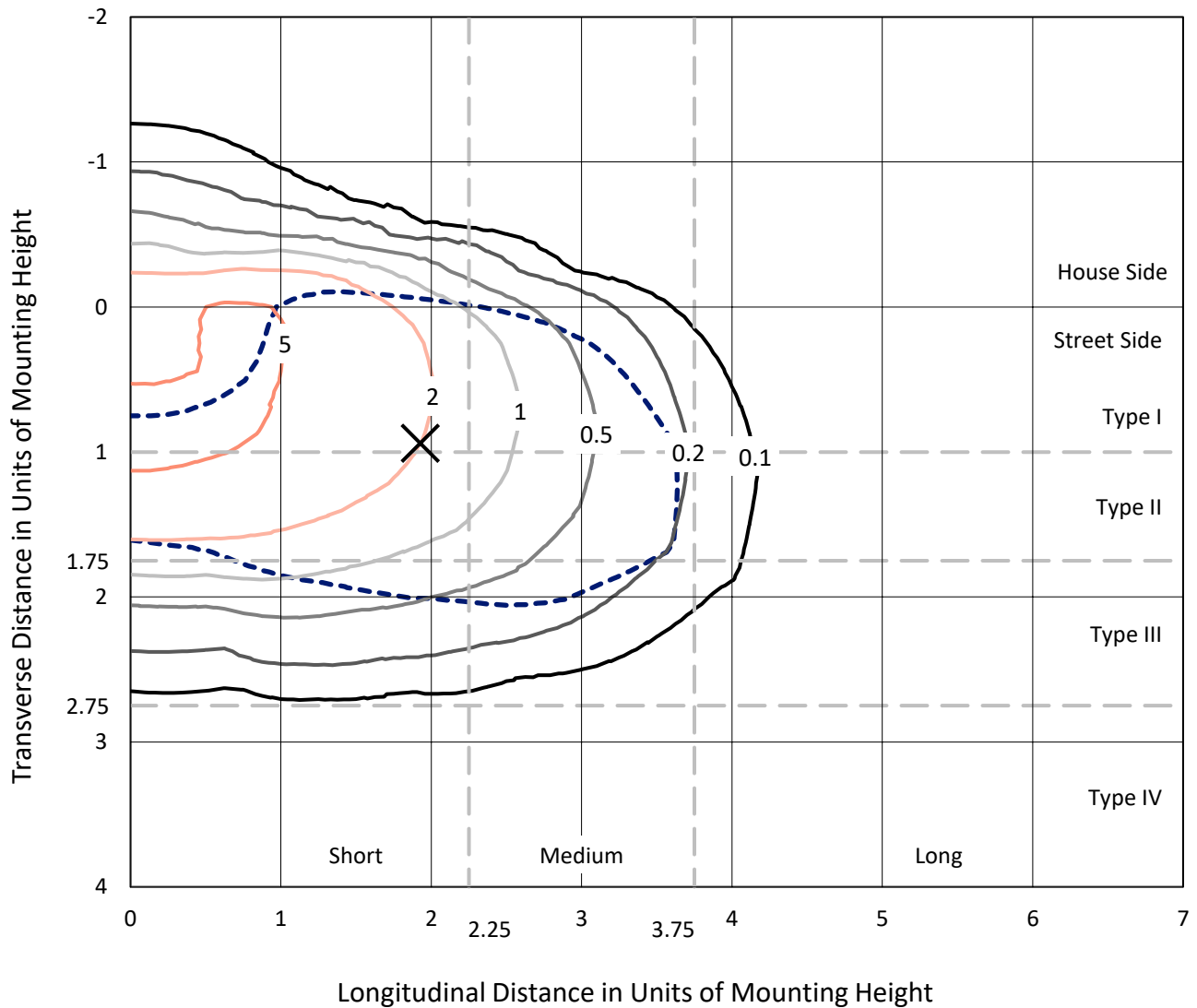
Lumens per Lamp: N/A  
Luminaire Lumens: 23287 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

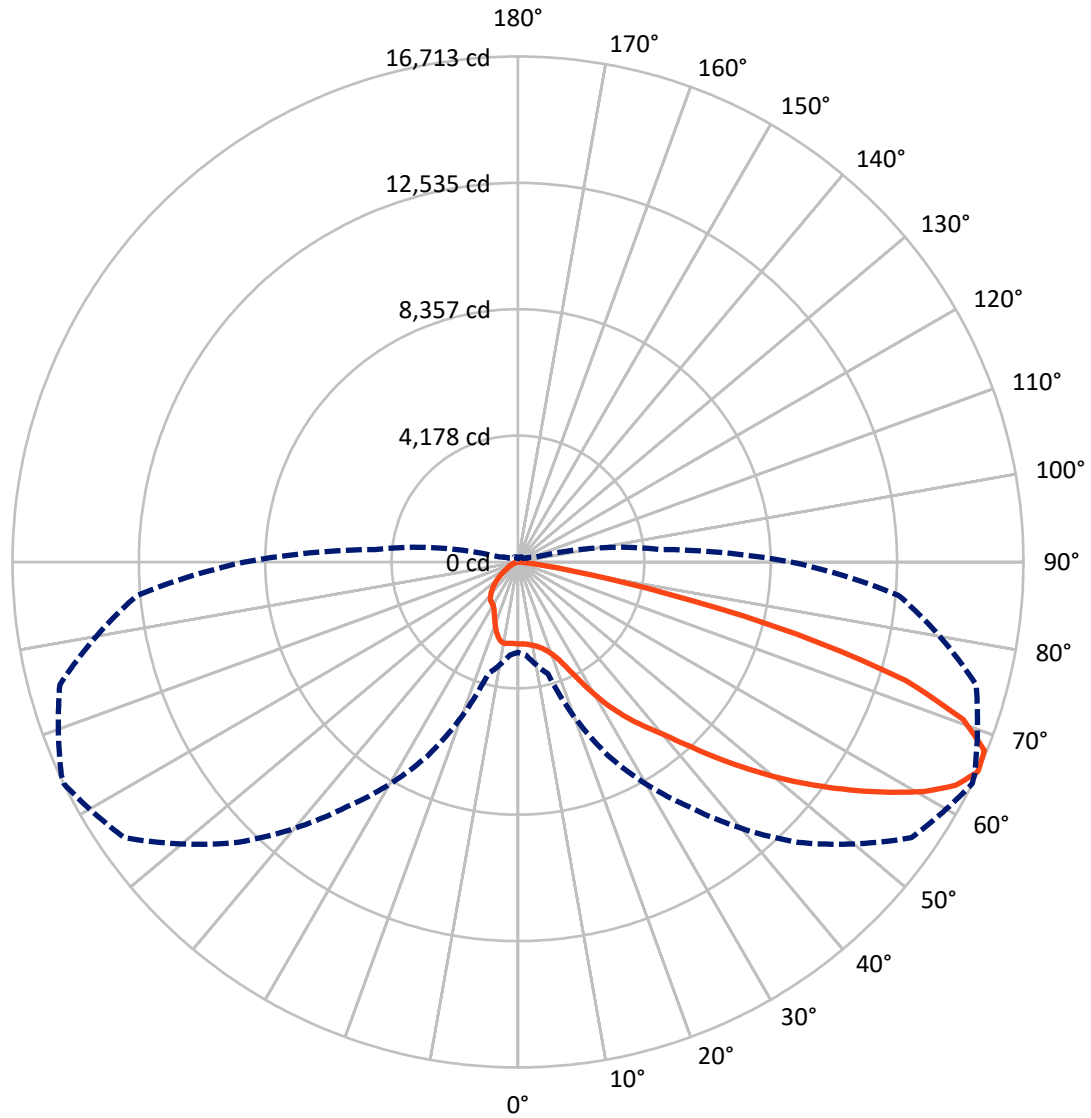
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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
<b>House Side</b>	Lumens	3114.2	0.0	3114.2
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	20172.8	0.0	20172.8
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	23287.0	0.0	23287.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	249.9	1.1
10°-20°	677.8	2.9
20°-30°	1284.3	5.5
30°-40°	2598.8	11.2
40°-50°	4427.1	19.0
50°-60°	6020.6	25.9
60°-70°	5653.6	24.3
70°-80°	2265.1	9.7
80°-90°	109.7	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°	23287.0	100.0
0°-180°	23287.0	100.0

**Coefficient of Utilization**



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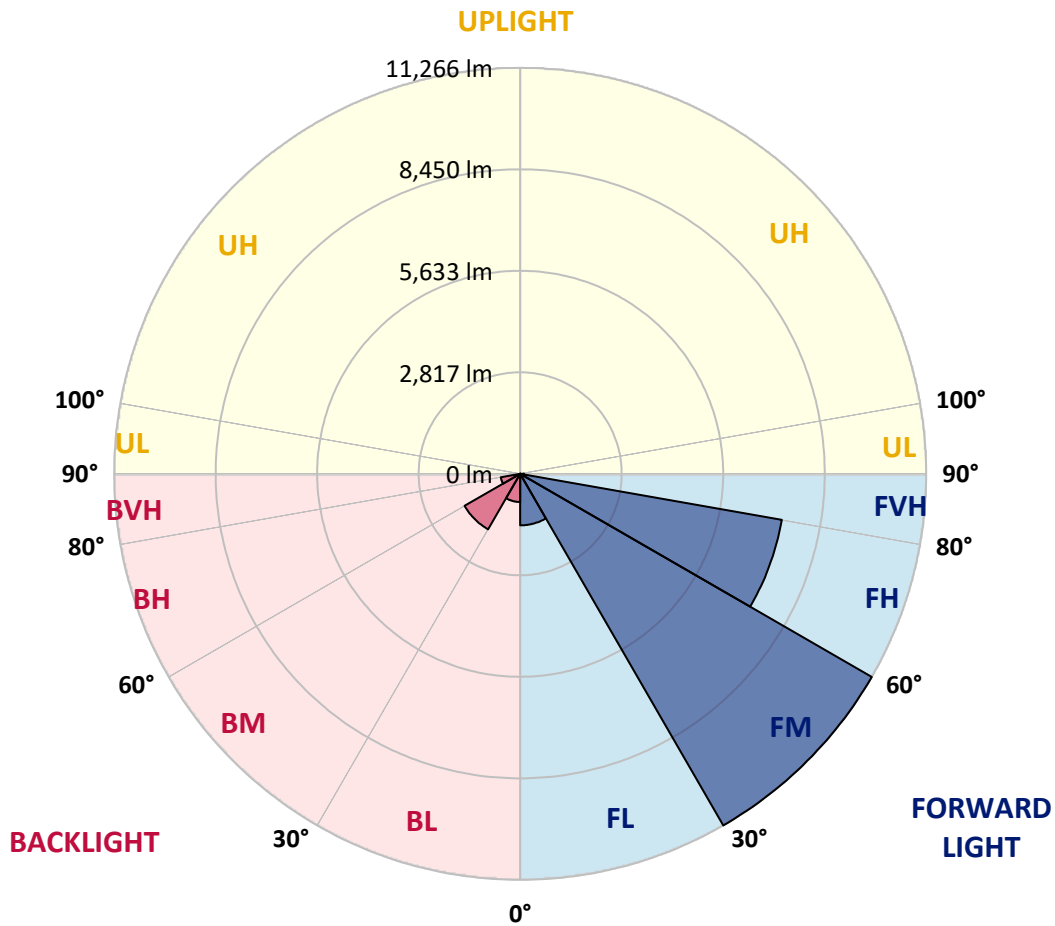
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1430.1	6.1			
FM (30°-60°)	11266.2	48.4			
FH (60°-80°)	7372.1	31.7			G3/7500
FVH (80°-90°)	104.4	0.4			G2/225
BL (0°-30°)	781.9	3.4	B2/1000		
BM (30°-60°)	1780.4	7.6	B2/2500		
BH (60°-80°)	546.6	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.4	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°	2708.5	2708.5	2708.5	2708.5	2708.5	2708.5	2708.5	2708.5	2708.5	2708.5
2.5°	2699.2	2717.9	2713.2	2708.5	2707.0	2710.1	2711.6	2710.1	2710.1	2710.1
5°	2647.6	2663.2	2663.2	2674.2	2689.8	2708.5	2722.6	2725.7	2728.8	2733.5
7.5°	2549.3	2561.8	2571.1	2607.0	2646.1	2696.0	2738.2	2760.0	2763.2	2780.3
10°	2482.2	2497.8	2513.4	2550.8	2607.0	2682.0	2753.8	2806.9	2814.7	2855.3
12.5°	2479.0	2494.6	2514.9	2555.5	2621.1	2700.7	2788.1	2864.6	2878.7	2938.0
15°	2511.8	2530.6	2549.3	2599.2	2669.5	2766.3	2859.9	2955.2	2969.2	3053.5
17.5°	2578.9	2603.9	2618.0	2667.9	2742.9	2850.6	2973.9	3083.2	3095.7	3194.0
20°	2711.6	2741.3	2746.0	2786.6	2859.9	2975.5	3122.2	3258.0	3273.6	3386.0
22.5°	2986.4	3028.5	2991.1	3011.4	3076.9	3192.5	3351.7	3523.4	3545.3	3673.3
25°	3470.3	3529.7	3432.9	3398.5	3426.6	3546.8	3746.7	3963.6	3988.6	4091.7
27.5°	4421.1	4344.6	4197.8	4054.2	3969.9	4038.6	4263.4	4531.9	4563.1	4663.0
30°	5465.4	5398.3	5200.0	4881.6	4681.8	4670.8	4878.5	5178.2	5214.1	5309.3
32.5°	6511.4	6447.4	6231.9	5840.1	5493.5	5321.8	5465.4	5797.9	5816.7	5877.6
35°	7540.1	7474.6	7259.1	6857.9	6431.8	6041.5	6013.4	6388.0	6394.3	6458.3
37.5°	8575.2	8520.5	8291.0	7897.6	7477.7	6939.1	6678.4	6946.9	6954.7	7017.2
40°	9313.6	9337.0	9179.3	8874.9	8514.3	7925.7	7424.6	7541.7	7494.9	7599.5
42.5°	9947.4	9994.2	9856.8	9703.8	9494.7	8976.4	8348.8	8328.5	8253.6	8309.8
45°	10495.3	10534.3	10411.0	10375.1	10370.4	10006.7	9358.8	9237.1	9132.5	9121.5
47.5°	10696.7	10771.6	10824.7	10944.9	11179.1	11026.1	10403.2	10214.3	10097.2	10011.4
50°	10773.2	10852.8	11033.9	11383.6	11937.8	12003.3	11442.9	11230.6	11087.0	10930.9
52.5°	10670.2	10812.2	11055.8	11644.3	12448.3	12787.0	12440.5	12254.7	12090.8	11836.3
55°	10062.9	10205.0	10702.9	11641.2	12702.7	13336.5	13383.4	13300.6	13116.4	12715.2
57.5°	8782.8	8993.5	9781.9	11244.7	12698.0	13809.5	14307.5	14366.9	14160.8	13586.3
60°	7009.4	7295.1	8256.7	10365.7	12306.2	14065.6	15117.8	15414.4	15195.8	14444.9
62.5°	4890.9	5221.9	6132.0	8988.9	11410.1	13881.4	15709.4	16257.4	16091.9	15213.0
65°	2983.3	3089.4	3823.2	7073.4	9886.5	13110.2	15892.1	16713.2	16658.6	15682.9
67.5°	1987.3	2076.3	2287.0	4850.4	7674.4	11569.4	15455.0	16633.6	16649.2	15606.4
70°	1197.4	1273.9	1411.2	2820.9	4973.7	9157.5	14101.5	15618.9	15709.4	14583.9
72.5°	493.3	544.8	669.7	1278.5	2575.8	5812.0	11229.0	13409.9	13620.7	12262.5
75°	279.4	306.0	393.4	641.6	1117.8	2708.5	6801.7	9519.6	9830.3	8451.8
77.5°	185.8	198.3	254.5	415.3	629.1	924.2	2906.8	4959.6	5552.9	4616.2
80°	124.9	135.8	174.8	277.9	409.0	396.5	925.7	1837.4	2260.5	1586.1
82.5°	84.3	85.9	124.9	182.6	259.1	192.0	273.2	571.4	718.1	459.0
85°	48.4	46.8	92.1	106.2	115.5	79.6	82.7	171.7	224.8	193.6
87.5°	6.2	9.4	35.9	28.1	15.6	17.2	17.2	29.7	43.7	46.8
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°
2708.5	0°	2708.5	2708.5	2708.5	2708.5	2708.5	2708.5	2708.5	2708.5	2708.5	2708.5
2711.6	2.5°	2711.6	2710.1	2705.4	2700.7	2689.8	2683.5	2686.7	2683.5	2682.0	2683.5
2731.9	5°	2731.9	2727.3	2714.8	2699.2	2677.3	2650.8	2633.6	2608.6	2585.2	2571.1
2786.6	7.5°	2786.6	2781.9	2764.7	2721.0	2650.8	2539.9	2438.4	2349.5	2282.3	2243.3
2874.0	10°	2874.0	2866.2	2839.7	2742.9	2558.7	2316.7	2115.3	1948.3	1839.0	1787.5
2977.0	12.5°	2977.0	2967.7	2920.8	2722.6	2383.8	2006.0	1728.1	1542.4	1440.9	1395.6
3095.7	15°	3098.8	3086.3	2994.2	2625.8	2129.3	1662.6	1408.1	1269.2	1203.6	1163.0
3247.1	17.5°	3250.2	3228.4	3048.8	2480.6	1853.0	1400.3	1211.4	1106.8	1049.1	1010.0
3445.4	20°	3446.9	3411.0	3092.6	2307.3	1598.6	1234.8	1078.7	991.3	947.6	913.2
3726.4	22.5°	3721.7	3670.2	3145.6	2120.0	1419.0	1120.9	980.4	916.4	880.5	841.4
4118.2	25°	4062.0	4001.1	3211.2	1946.7	1295.7	1022.5	908.6	855.5	813.3	768.1
4631.8	27.5°	4538.1	4428.9	3289.3	1804.6	1189.6	938.2	843.0	783.7	735.3	697.8
5214.1	30°	5068.9	4889.4	3357.9	1718.8	1092.8	860.2	757.1	697.8	652.5	626.0
5737.1	32.5°	5571.6	5328.1	3403.2	1681.3	1005.4	771.2	663.5	599.5	565.1	557.3
6249.1	35°	6046.2	5724.6	3398.5	1645.4	927.3	682.2	571.4	505.8	479.3	483.9
6800.2	37.5°	6592.6	6147.6	3365.7	1589.2	863.3	601.0	491.7	434.0	410.6	412.1
7469.9	40°	7227.9	6636.3	3345.5	1483.1	793.0	526.1	426.2	379.3	362.2	355.9
8175.5	42.5°	7905.4	7109.3	3348.6	1362.8	705.6	459.0	380.9	341.9	326.3	321.6
8960.8	45°	8586.1	7560.4	3353.3	1238.0	613.5	407.4	348.1	315.3	306.0	299.7
9756.9	47.5°	9226.1	7944.5	3265.8	1103.7	523.0	368.4	321.6	299.7	291.9	284.1
10556.2	50°	9822.5	8200.5	3055.1	947.6	451.2	337.2	301.3	285.7	277.9	270.1
11280.6	52.5°	10286.1	8241.1	2707.0	786.8	401.2	313.8	288.8	274.8	265.4	257.6
11866.0	55°	10492.2	7986.6	2212.1	636.9	362.2	293.5	276.3	262.3	251.3	243.5
12326.5	57.5°	10439.1	7451.2	1725.0	512.0	324.7	273.2	260.7	251.3	238.8	226.4
12699.6	60°	10178.4	6734.6	1300.4	426.2	290.4	251.3	243.5	235.7	218.6	199.8
12843.2	62.5°	9727.3	5833.9	927.3	352.8	252.9	226.4	223.2	217.0	192.0	157.7
12630.9	65°	9037.2	4739.5	624.4	293.5	217.0	198.3	199.8	188.9	156.1	117.1
11853.5	67.5°	8028.8	3465.7	399.6	240.4	181.1	165.5	167.0	160.8	132.7	99.9
10379.8	70°	6744.0	2294.8	260.7	182.6	145.2	128.0	137.4	138.9	112.4	81.2
7966.3	72.5°	4944.0	1355.0	182.6	135.8	106.2	89.0	112.4	115.5	90.5	60.9
4792.6	75°	2817.8	643.2	137.4	98.3	65.6	62.4	87.4	87.4	62.4	40.6
2074.7	77.5°	1183.3	268.5	96.8	64.0	37.5	35.9	59.3	54.6	31.2	18.7
505.8	80°	341.9	120.2	51.5	31.2	15.6	14.0	23.4	17.2	7.8	3.1
192.0	82.5°	134.3	53.1	20.3	12.5	6.2	6.2	3.1	0.0	0.0	0.0
109.3	85°	79.6	21.9	9.4	4.7	1.6	0.0	0.0	0.0	0.0	0.0
23.4	87.5°	20.3	4.7	3.1	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

180°
2708.5
2689.8
2574.3
2244.9
1782.8
1390.9
1164.6
1006.9
907.0
835.2
763.4
690.0
621.3
562.0
483.9
418.4
354.4
320.0
299.7
284.1
270.1
256.0
242.0
224.8
196.7
154.5
114.0
95.2
78.1
57.8
37.5
18.7
3.1
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