

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: P950076

Luminaire Tested: **GALN-SB4C-850-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950076  
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-SB4C-850-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

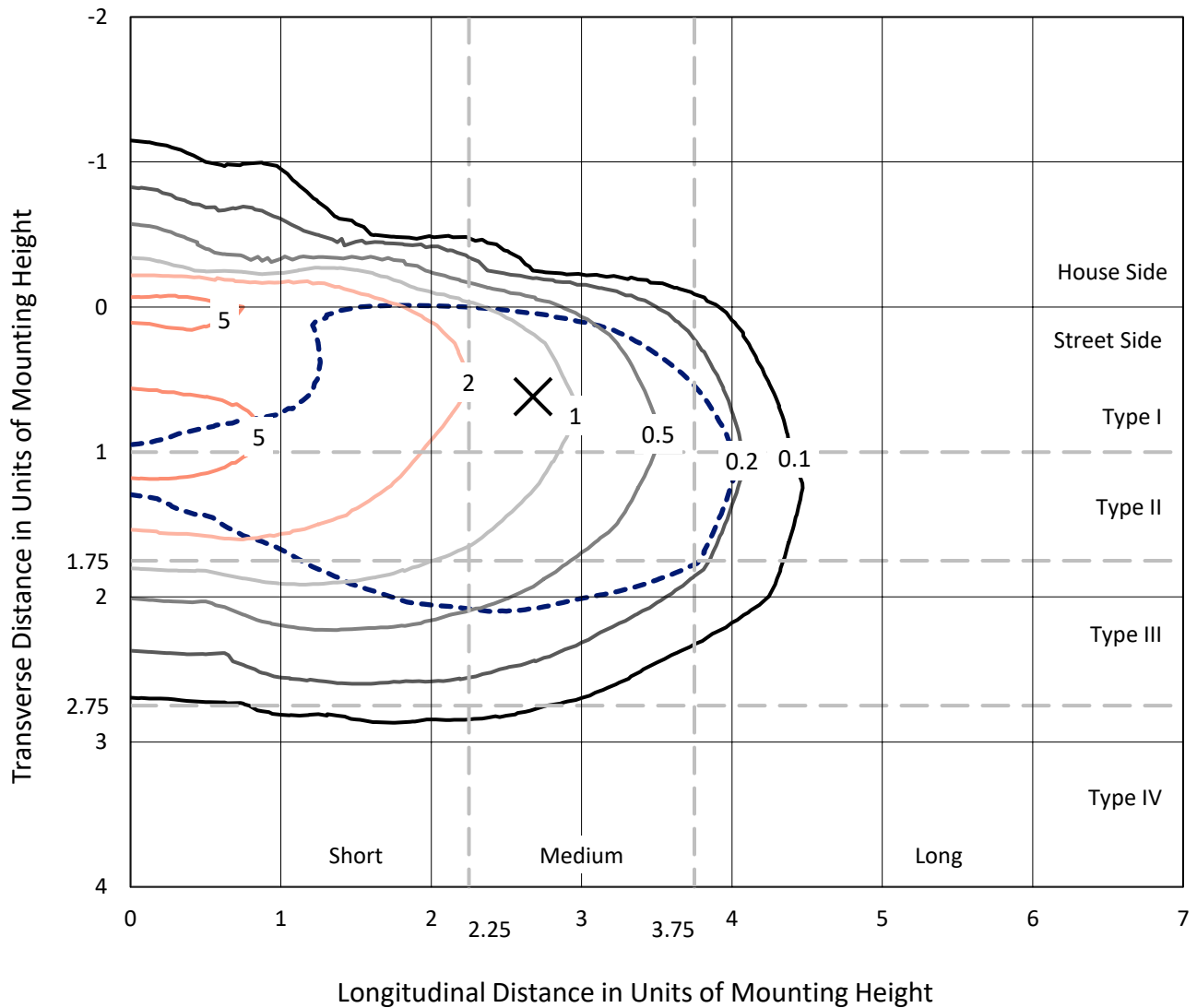
Lumens per Lamp: N/A  
Luminaire Lumens: 23902 lumens  
Efficiency: N/A  
Efficacy: 119.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

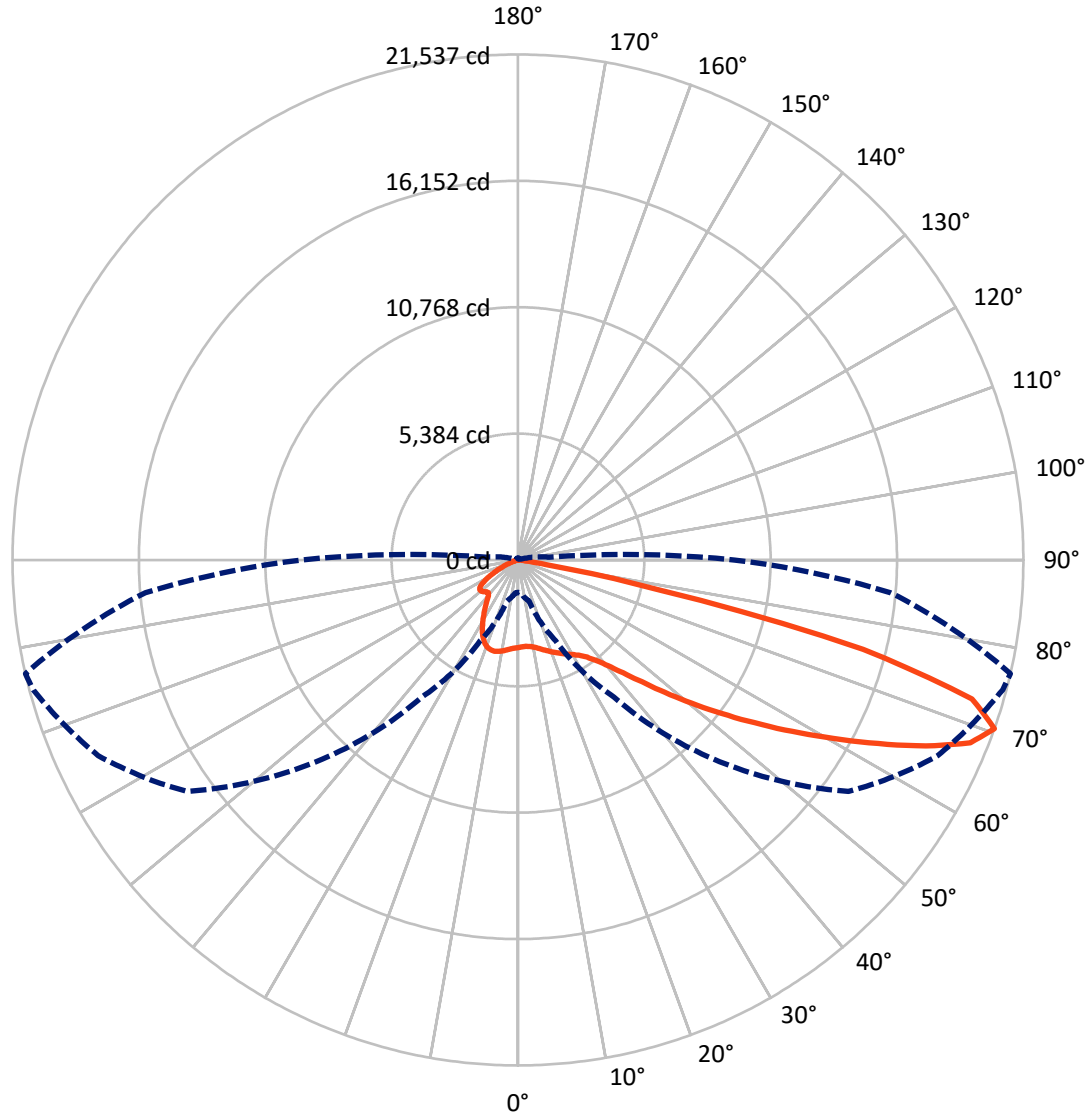
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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
<b>House Side</b>	Lumens	2519.6	0.0	2519.6
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	21382.4	0.0	21382.4
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	23902.0	0.0	23902.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	321.3	1.3
10°-20°	762.8	3.2
20°-30°	1179.8	4.9
30°-40°	2140.8	9.0
40°-50°	4041.0	16.9
50°-60°	5839.0	24.4
60°-70°	6215.4	26.0
70°-80°	3293.7	13.8
80°-90°	108.1	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°	23902.0	100.0
0°-180°	23902.0	100.0



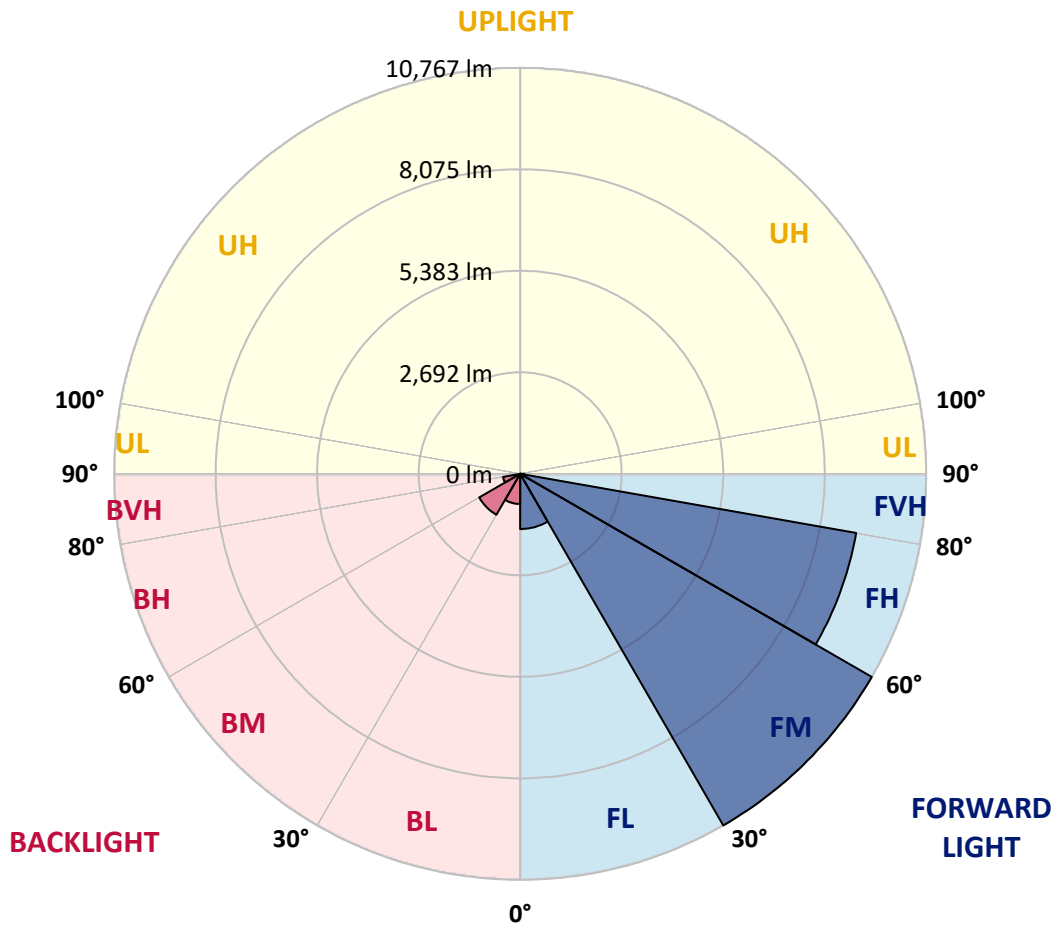
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1463.4	6.1			
FM (30°-60°)	10766.5	45.0			
FH (60°-80°)	9047.3	37.9			G4/12000
FVH (80°-90°)	105.2	0.4			G2/225
BL (0°-30°)	800.5	3.3	B2/1000		
BM (30°-60°)	1254.3	5.2	B2/2500		
BH (60°-80°)	461.9	1.9	B1/500		G1/500
BVH (80°-90°)	2.9	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 Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3728.3	3728.3	3728.3	3728.3	3728.3	3728.3	3728.3	3728.3	3728.3	3728.3
2.5°	3500.4	3532.1	3527.5	3548.7	3556.2	3586.4	3616.6	3657.3	3702.6	3701.1
5°	3302.6	3334.3	3341.9	3370.5	3406.8	3453.6	3515.5	3597.0	3681.5	3695.1
7.5°	3068.7	3101.9	3121.5	3178.8	3245.3	3341.9	3443.0	3562.2	3702.6	3722.2
10°	2834.7	2864.9	2890.5	2972.1	3077.7	3221.1	3385.6	3557.7	3746.4	3775.1
12.5°	2689.8	2718.5	2747.2	2818.1	2949.4	3124.5	3347.9	3578.8	3818.8	3859.6
15°	2638.5	2664.1	2686.8	2750.2	2872.4	3071.7	3340.4	3622.6	3910.9	3965.3
17.5°	2646.0	2659.6	2674.7	2723.0	2842.2	3047.5	3353.9	3698.1	4019.6	4067.9
20°	2689.8	2697.3	2698.9	2732.1	2837.7	3044.5	3381.1	3770.5	4122.2	4187.1
22.5°	2745.6	2748.7	2745.6	2768.3	2866.4	3067.2	3417.3	3858.1	4237.0	4297.3
25°	3006.8	2949.4	2877.0	2833.2	2914.7	3110.9	3471.7	3975.8	4362.2	4421.1
27.5°	3817.3	3652.8	3393.2	3101.9	3014.3	3174.3	3547.1	4095.1	4489.0	4541.9
30°	5133.6	4917.7	4477.0	3820.4	3334.3	3307.2	3645.3	4214.3	4623.4	4680.7
32.5°	6452.8	6400.0	5891.3	4982.6	4054.3	3603.0	3808.3	4375.8	4801.5	4846.8
35°	7787.1	7680.0	7263.4	6365.2	5163.7	4205.3	4080.0	4587.1	5035.4	5086.8
37.5°	8809.0	8744.1	8486.0	7746.4	6480.0	5135.1	4544.9	4914.7	5375.1	5432.4
40°	9711.6	9681.5	9593.9	9106.4	7951.7	6351.7	5267.9	5421.9	5846.0	5913.9
42.5°	10421.1	10492.0	10541.8	10406.0	9468.6	7740.3	6240.0	6134.3	6502.6	6572.0
45°	11147.1	11171.3	11372.0	11568.2	10975.0	9192.4	7335.8	6969.0	7319.2	7405.2
47.5°	11613.5	11710.1	12063.3	12409.0	12241.4	10632.4	8513.2	7954.7	8265.6	8427.1
50°	11648.2	11830.9	12316.9	12919.2	13163.7	12002.9	9793.2	9077.7	9408.2	9586.4
52.5°	11070.1	11353.9	12107.1	12988.6	13661.8	13163.7	11116.9	10200.7	10624.8	10857.3
55°	8487.5	8858.8	11317.7	12611.2	13681.4	14043.7	12406.0	11370.5	11980.3	12242.9
57.5°	7394.7	7581.8	8898.1	11956.2	13317.7	14398.4	13571.2	12484.5	13455.0	13781.1
60°	6152.4	6398.5	7462.6	10884.5	12824.1	14433.1	14600.7	13921.4	15053.5	15420.3
62.5°	4181.1	4448.3	5506.4	9043.0	12149.4	14416.5	15444.4	15400.7	16830.1	17224.1
65°	2590.2	2757.7	3455.1	7384.1	11206.0	14434.6	16327.5	17196.9	18704.8	19104.8
67.5°	2046.8	2123.8	2487.5	5669.4	9580.3	14027.1	17209.0	18885.9	20469.3	20786.3
70°	1375.1	1421.9	1809.8	3800.7	7127.5	12146.3	17192.4	19734.2	21378.0	21536.5
72.5°	724.5	760.8	1058.1	1760.0	4304.9	8633.9	14492.0	18719.9	20473.8	20235.4
75°	362.3	422.6	712.4	893.6	1838.5	4815.1	8999.2	14759.2	16114.6	15190.9
77.5°	274.7	332.1	588.7	588.7	640.0	1621.1	3811.3	8049.8	7424.9	6182.6
80°	175.1	226.4	514.7	445.3	267.2	412.1	993.2	2255.1	1577.3	1200.0
82.5°	102.6	147.9	428.7	294.3	149.4	152.5	280.8	480.0	409.1	318.5
85°	40.8	96.6	294.3	116.2	58.9	37.7	84.5	102.6	84.5	63.4
87.5°	0.0	22.6	51.3	0.0	4.5	3.0	6.0	7.5	7.5	6.0
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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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3728.3	0°	3728.3	3728.3	3728.3	3728.3	3728.3	3728.3	3728.3	3728.3	3728.3	3728.3
3731.3	2.5°	3744.9	3747.9	3757.0	3758.5	3737.3	3710.2	3699.6	3695.1	3677.0	3675.5
3755.4	5°	3790.2	3803.8	3790.2	3750.9	3657.3	3526.0	3426.4	3344.9	3270.9	3248.3
3838.5	7.5°	3880.7	3894.3	3853.6	3699.6	3464.1	3203.0	2967.5	2801.5	2652.1	2596.2
3939.6	10°	4010.5	4028.7	3900.4	3589.4	3172.8	2753.2	2354.7	2074.0	1855.1	1766.0
4077.0	12.5°	4173.6	4181.1	3926.0	3421.9	2793.9	2194.7	1630.2	1329.8	1135.1	1062.6
4243.0	15°	4353.2	4342.6	3929.0	3193.9	2277.7	1551.7	1064.1	874.0	795.5	771.3
4409.0	17.5°	4541.9	4498.1	3868.7	2864.9	1711.7	1061.1	789.4	744.1	730.6	724.5
4573.6	20°	4727.5	4629.4	3758.5	2434.7	1228.7	792.4	717.0	703.4	695.8	692.8
4739.6	22.5°	4896.6	4729.0	3569.8	1935.1	892.1	700.4	677.7	665.7	652.1	646.0
4901.1	25°	5061.1	4786.4	3304.1	1468.7	714.0	655.1	637.0	614.3	596.2	588.7
5074.7	27.5°	5221.1	4822.6	2972.1	1086.8	637.0	612.8	579.6	547.9	534.3	531.3
5260.3	30°	5391.7	4834.7	2594.7	810.6	590.2	560.0	511.7	475.5	467.9	469.4
5510.9	32.5°	5600.0	4852.8	2214.3	664.1	550.9	496.6	439.2	401.5	395.5	401.5
5876.2	35°	5849.0	4889.0	1847.5	611.3	516.2	431.7	369.8	338.1	332.1	336.6
6344.1	37.5°	6187.1	4947.9	1504.9	600.8	487.5	377.4	310.9	285.3	285.3	286.8
6917.7	40°	6636.9	5104.9	1198.5	593.2	472.5	336.6	262.6	252.1	256.6	259.6
7648.3	42.5°	7184.9	5438.5	991.7	584.1	455.8	318.5	238.5	234.0	241.5	244.5
8523.7	45°	7799.2	5861.1	919.2	569.1	440.8	330.6	227.9	221.9	230.9	232.5
9504.9	47.5°	8434.7	6274.7	910.2	552.4	425.7	348.7	224.9	211.3	221.9	223.4
10552.4	50°	9077.7	6544.9	919.2	526.8	401.5	348.7	226.4	200.8	209.8	214.3
11639.2	52.5°	9725.2	6668.6	913.2	470.9	359.2	327.5	226.4	191.7	200.8	203.8
12813.5	55°	10353.1	6644.5	821.1	387.9	304.9	289.8	220.4	184.1	190.2	191.7
13922.9	57.5°	10849.7	6307.9	650.6	301.9	247.5	241.5	200.8	175.1	179.6	178.1
14940.3	60°	11109.4	5568.3	464.9	232.5	194.7	190.2	176.6	163.0	166.0	158.5
15802.2	62.5°	11112.4	4590.2	310.9	184.1	155.5	150.9	150.9	146.4	143.4	128.3
16469.3	65°	10875.4	3504.9	206.8	146.4	125.3	117.7	126.8	125.3	114.7	93.6
16673.1	67.5°	10338.1	2297.3	157.0	114.7	96.6	92.1	101.1	105.7	98.1	78.5
15930.5	70°	9233.2	1337.4	129.8	89.1	72.5	67.9	81.5	90.6	81.5	63.4
13616.5	72.5°	7669.4	721.5	105.7	66.4	49.8	45.3	64.9	74.0	64.9	46.8
8736.6	75°	4976.6	386.4	81.5	43.8	25.7	28.7	48.3	54.3	45.3	30.2
2564.5	77.5°	1670.9	170.6	51.3	21.1	12.1	12.1	28.7	33.2	21.1	10.6
466.4	80°	372.8	70.9	21.1	9.1	4.5	4.5	6.0	6.0	3.0	0.0
143.4	82.5°	122.3	28.7	9.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0
36.2	85°	46.8	10.6	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.1	87.5°	18.1	1.5	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

(END O

180°
3728.3
3678.5
3234.7
2573.6
1728.3
1040.0
771.3
723.0
689.8
644.5
585.7
528.3
469.4
400.0
335.1
285.3
259.6
244.5
234.0
224.9
215.8
203.8
191.7
178.1
157.0
123.8
90.6
77.0
60.4
45.3
27.2
9.1
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