

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: P951880

Luminaire Tested: **GALN-SB5D-927-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951880  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5D-927-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

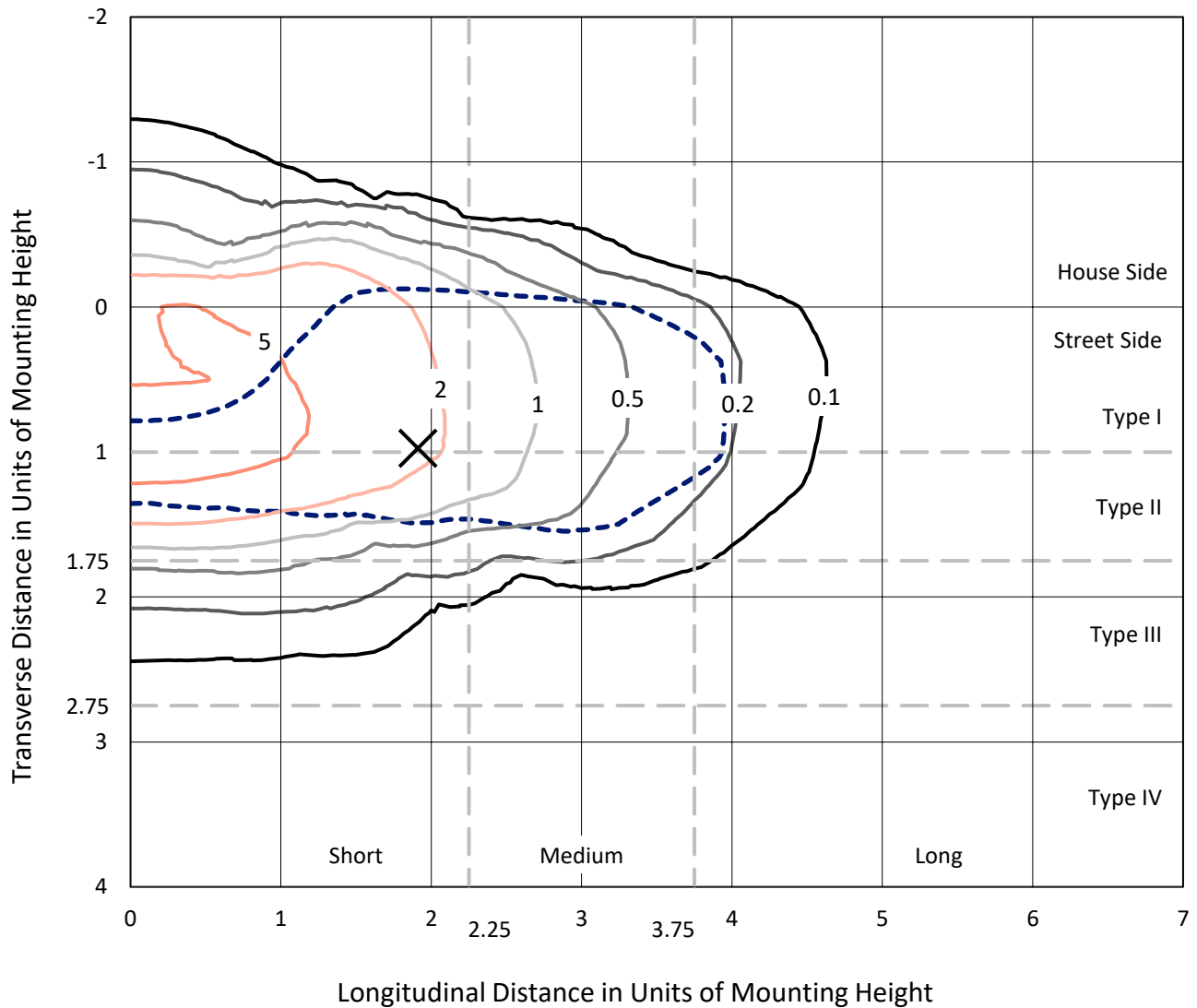
Lumens per Lamp: N/A  
Luminaire Lumens: 23912 lumens  
Efficiency: N/A  
Efficacy: 65.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

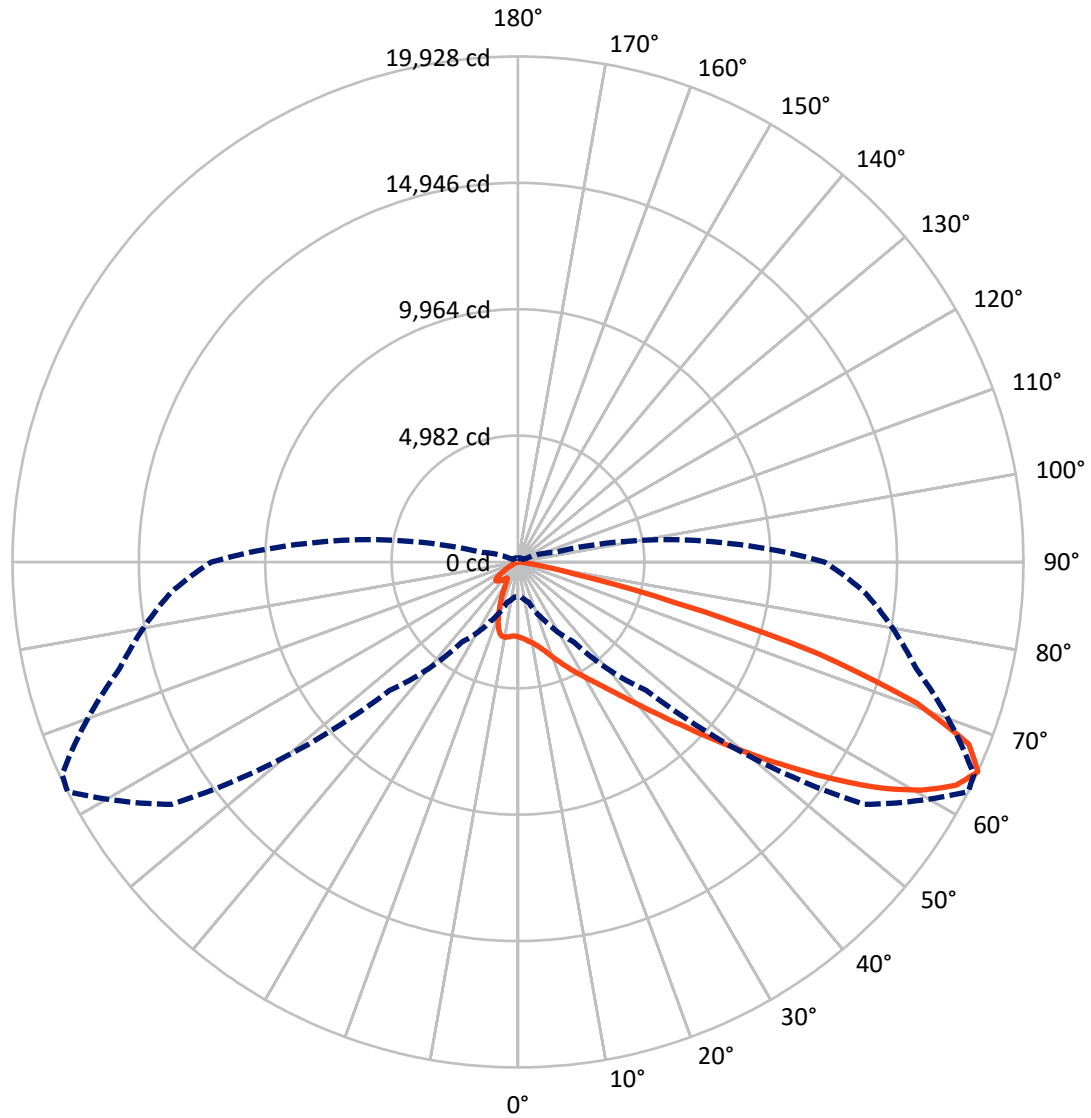
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3514.9	0.0	3514.9
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	20397.1	0.0	20397.1
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	23912.0	0.0	23912.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	278.1	1.2
10°-20°	771.5	3.2
20°-30°	1343.4	5.6
30°-40°	2421.3	10.1
40°-50°	4802.3	20.1
50°-60°	6541.5	27.4
60°-70°	5221.4	21.8
70°-80°	2362.8	9.9
80°-90°	169.8	0.7
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°	23912.0	100.0
0°-180°	23912.0	100.0

**Coefficient of Utilization**



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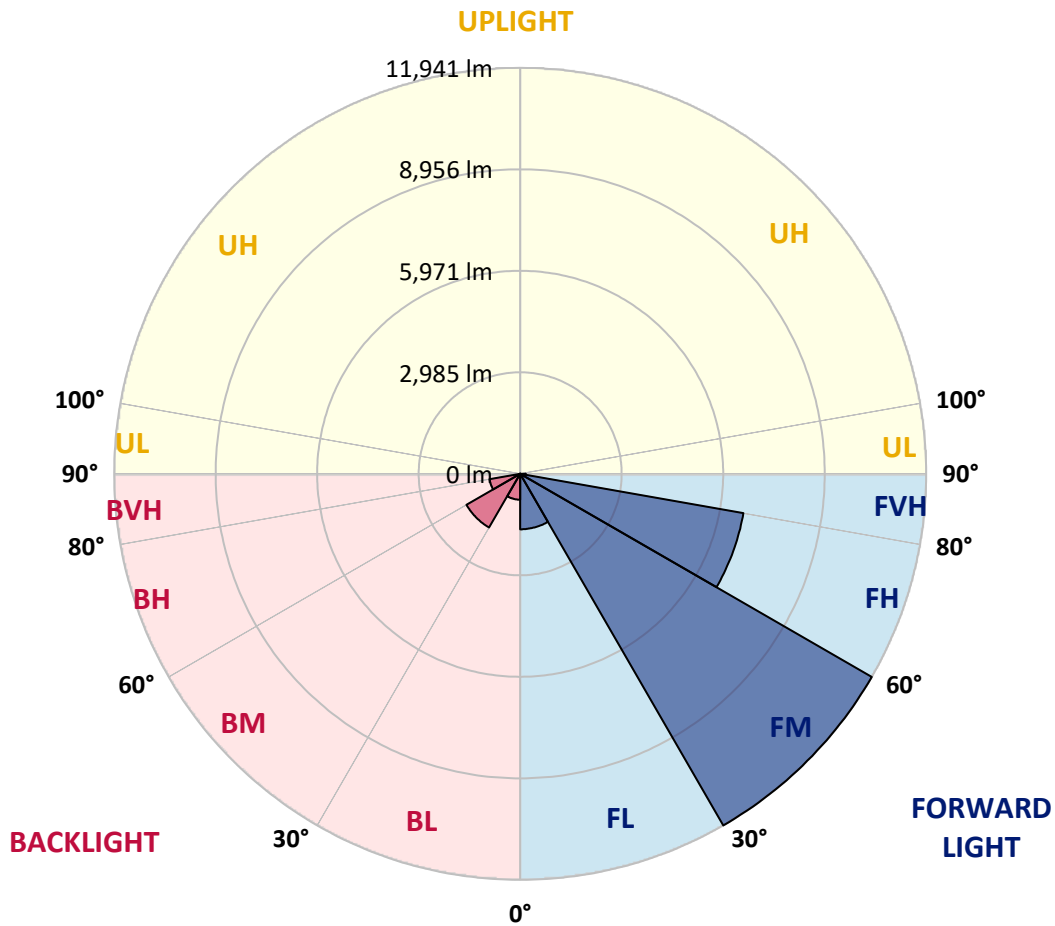
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1632.3	6.8			
FM (30°-60°)	11941.1	49.9			
FH (60°-80°)	6666.6	27.9			G3/7500
FVH (80°-90°)	157.2	0.7			G2/225
BL (0°-30°)	760.7	3.2	B2/1000		
BM (30°-60°)	1824.0	7.6	B2/2500		
BH (60°-80°)	917.6	3.8	B2/1000		G2/1000
BVH (80°-90°)	12.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	2951.2	2951.2	2951.2	2951.2	2951.2	2951.2	2951.2	2951.2	2951.2	2951.2
2.5°	3020.3	3012.1	3023.6	3018.6	3015.3	3008.8	3005.5	3002.2	2995.6	2990.7
5°	3028.5	3023.6	3035.1	3045.0	3054.8	3064.7	3069.6	3076.2	3069.6	3056.5
7.5°	2959.4	2956.1	2980.8	3010.4	3054.8	3092.7	3133.8	3156.8	3158.5	3153.5
10°	2954.5	2946.3	2970.9	3007.1	3064.7	3132.1	3204.5	3253.9	3260.5	3281.8
12.5°	3031.8	3023.6	3058.1	3097.6	3156.8	3227.6	3316.4	3385.5	3395.4	3425.0
15°	3161.8	3150.2	3189.7	3240.7	3316.4	3397.0	3490.8	3553.3	3561.5	3597.7
17.5°	3313.1	3301.6	3347.6	3401.9	3484.2	3594.4	3703.0	3772.1	3781.9	3805.0
20°	3507.2	3492.4	3528.6	3578.0	3665.1	3796.7	3926.7	4025.4	4023.8	4023.8
22.5°	3732.6	3709.6	3740.8	3780.3	3862.5	4022.1	4194.8	4311.6	4311.6	4265.6
25°	3974.4	3951.4	3985.9	4022.1	4094.5	4275.4	4477.8	4622.5	4629.1	4550.2
27.5°	4277.1	4247.5	4273.8	4316.6	4359.3	4543.6	4783.8	4951.6	4954.8	4833.1
30°	4859.4	4775.5	4693.3	4647.2	4667.0	4849.6	5106.2	5292.1	5308.5	5140.7
32.5°	5925.4	5909.0	5619.4	5241.1	5043.7	5178.6	5466.5	5690.2	5700.0	5484.5
35°	7582.0	7562.2	7096.7	6376.2	5732.9	5619.4	5904.0	6168.9	6162.3	5918.8
37.5°	9559.3	9541.2	8927.6	7963.6	6922.3	6285.7	6468.3	6746.3	6787.4	6468.3
40°	11248.7	11181.3	10793.1	9863.6	8501.5	7391.1	7271.1	7455.3	7498.1	7119.7
42.5°	12528.6	12471.0	12273.6	11692.9	10413.1	9026.3	8216.9	8287.7	8335.4	7881.4
45°	13191.5	13178.4	13257.3	13203.1	12360.8	11033.2	9569.2	9274.7	9292.8	8725.3
47.5°	13285.3	13278.7	13639.0	14148.9	14035.4	13296.8	11304.7	10505.2	10441.0	9677.7
50°	12732.6	12719.4	13410.3	14366.1	15154.1	15198.5	13275.4	11892.0	11750.5	10663.1
52.5°	10967.4	10964.2	12099.2	13690.0	15547.2	16863.3	15223.2	13415.3	13178.4	11706.1
55°	8439.0	8499.9	9801.1	11681.4	14830.0	17664.4	16971.8	15106.4	14742.8	12755.6
57.5°	5978.1	6066.9	7353.3	9028.0	12605.9	17190.6	18154.6	16800.7	16409.2	13801.8
60°	3211.1	3290.1	4578.1	6576.8	9378.3	15423.8	18778.1	18271.4	17901.3	14795.4
62.5°	1913.2	1939.5	2472.5	4245.8	6343.3	11783.4	18513.2	19391.7	19087.3	15629.5
65°	1373.6	1378.5	1646.7	2592.6	3851.0	7159.2	16656.0	19928.0	19834.2	16257.9
67.5°	1156.5	1153.2	1265.0	1722.4	2623.8	3586.2	12765.5	19169.6	19567.7	16656.0
70°	992.0	996.9	1128.5	1261.7	1972.4	2030.0	6346.5	16690.5	17539.4	16761.3
72.5°	738.6	755.1	876.8	1149.9	1488.8	1396.6	2191.2	12375.6	13910.4	15792.3
75°	521.5	529.7	616.9	967.3	1110.4	1016.6	1118.6	6397.5	8365.0	12107.5
77.5°	401.4	416.2	467.2	676.1	1093.9	713.9	684.3	2214.2	3401.9	7313.8
80°	217.1	243.5	337.2	488.6	768.2	505.0	338.9	881.7	1153.2	3420.0
82.5°	111.9	125.0	235.2	352.0	437.6	440.9	167.8	366.8	475.4	1056.1
85°	44.4	54.3	157.9	194.1	225.4	217.1	75.7	148.1	171.1	292.8
87.5°	9.9	16.5	57.6	44.4	42.8	46.1	18.1	34.5	32.9	34.5
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°
2951.2	0°	2951.2	2951.2	2951.2	2951.2	2951.2	2951.2	2951.2	2951.2	2951.2	2951.2
2970.9	2.5°	2969.3	2962.7	2944.6	2924.9	2901.8	2888.7	2880.5	2878.8	2867.3	2859.1
3036.7	5°	3018.6	3012.1	2977.5	2936.4	2892.0	2857.4	2824.5	2794.9	2752.1	2743.9
3132.1	7.5°	3117.3	3099.2	3043.3	2987.4	2903.5	2803.1	2681.4	2541.6	2416.6	2378.7
3258.8	10°	3239.1	3214.4	3143.7	3045.0	2859.1	2586.0	2291.5	2018.5	1801.3	1740.4
3408.5	12.5°	3377.3	3355.9	3262.1	3079.5	2673.2	2178.0	1727.3	1388.4	1177.8	1125.2
3568.1	15°	3541.8	3510.5	3380.5	3026.9	2340.9	1654.9	1186.1	985.4	909.7	899.8
3750.7	17.5°	3716.1	3665.1	3485.8	2837.7	1893.4	1176.2	916.3	858.7	825.8	815.9
3934.9	20°	3875.7	3809.9	3548.3	2551.4	1414.7	916.3	820.9	783.0	753.4	741.9
4119.2	22.5°	4035.3	3941.5	3548.3	2161.6	1061.0	812.6	753.4	718.9	684.3	669.5
4316.6	25°	4201.4	4076.4	3485.8	1727.3	853.8	745.2	689.3	651.4	621.8	603.7
4504.1	27.5°	4362.6	4189.9	3342.7	1316.0	760.0	686.0	630.0	593.9	565.9	552.7
4708.1	30°	4515.6	4301.8	3142.0	998.5	699.1	628.4	575.8	544.5	516.5	503.4
4972.9	32.5°	4722.9	4443.2	2928.2	819.2	646.5	574.1	526.4	496.8	472.1	462.3
5316.8	35°	5010.8	4652.2	2743.9	804.4	602.1	529.7	482.0	454.0	429.4	421.1
5760.9	37.5°	5418.7	4989.4	2646.9	903.1	565.9	490.2	445.8	416.2	393.2	386.6
6325.2	40°	5922.1	5446.7	2699.5	1001.8	541.2	455.7	412.9	383.3	363.6	355.3
6973.3	42.5°	6519.3	6011.0	2990.7	1077.5	524.8	426.1	381.6	348.7	335.6	332.3
7708.6	45°	7205.3	6631.1	3436.5	1158.1	498.4	398.1	350.4	325.7	315.8	314.2
8508.1	47.5°	7985.0	7312.2	3953.0	1258.5	472.1	371.8	325.7	309.3	301.0	297.8
9342.2	50°	8758.2	7998.2	4484.4	1314.4	450.7	347.1	306.0	292.8	286.2	284.6
10223.9	52.5°	9567.5	8703.9	4913.7	1261.7	432.6	327.4	289.5	279.7	273.1	271.4
11036.5	55°	10339.0	9274.7	4987.7	1070.9	396.5	307.6	271.4	266.5	258.3	258.3
11860.7	57.5°	11003.6	9560.9	4464.6	786.3	360.3	278.0	253.3	248.4	241.8	240.2
12604.3	60°	11613.9	9478.7	3446.3	529.7	320.8	248.4	230.3	227.0	220.4	212.2
13250.8	62.5°	11957.8	9116.8	2357.3	345.5	281.3	217.1	204.0	202.3	187.5	171.1
13729.5	65°	12087.7	8373.2	1470.7	251.7	235.2	185.9	176.0	172.7	151.3	133.2
14000.9	67.5°	11974.2	7149.3	741.9	199.0	185.9	154.6	144.8	144.8	130.0	113.5
13984.4	70°	11520.2	5359.5	312.6	159.6	143.1	118.4	118.4	125.0	110.2	92.1
13259.0	72.5°	10534.8	3605.9	166.1	121.7	106.9	83.9	97.1	102.0	87.2	69.1
10852.3	75°	8374.9	2199.4	115.2	90.5	67.4	59.2	74.0	77.3	59.2	46.1
7440.5	77.5°	5728.0	1263.4	77.3	57.6	42.8	34.5	51.0	47.7	31.3	21.4
2868.9	80°	2515.3	526.4	44.4	26.3	16.5	13.2	18.1	13.2	9.9	6.6
393.2	82.5°	294.5	123.4	16.5	9.9	6.6	3.3	1.6	0.0	0.0	0.0
120.1	85°	60.9	14.8	8.2	3.3	1.6	0.0	0.0	0.0	0.0	0.0
21.4	87.5°	11.5	3.3	1.6	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°
2951.2
2867.3
2740.6
2360.6
1717.4
1110.4
890.0
811.0
735.3
661.3
597.1
552.7
505.0
462.3
421.1
384.9
353.7
332.3
312.6
297.8
284.6
271.4
256.6
238.5
210.6
167.8
131.6
111.9
90.5
69.1
44.4
23.0
6.6
0.0
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