

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: P941464

Luminaire Tested: **GALN-SB5A-735-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941464  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5A-735-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

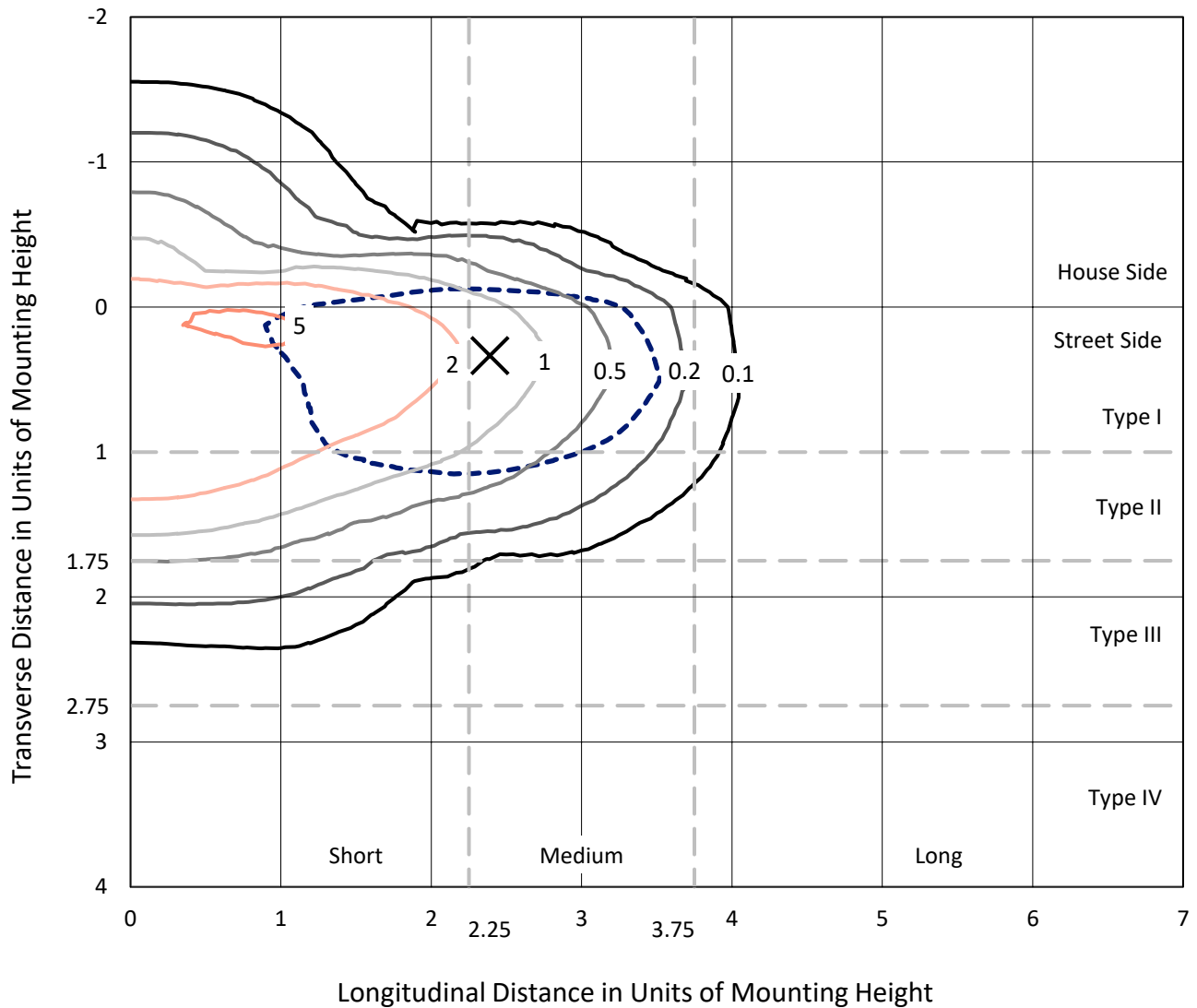
Lumens per Lamp: N/A  
Luminaire Lumens: 16547 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

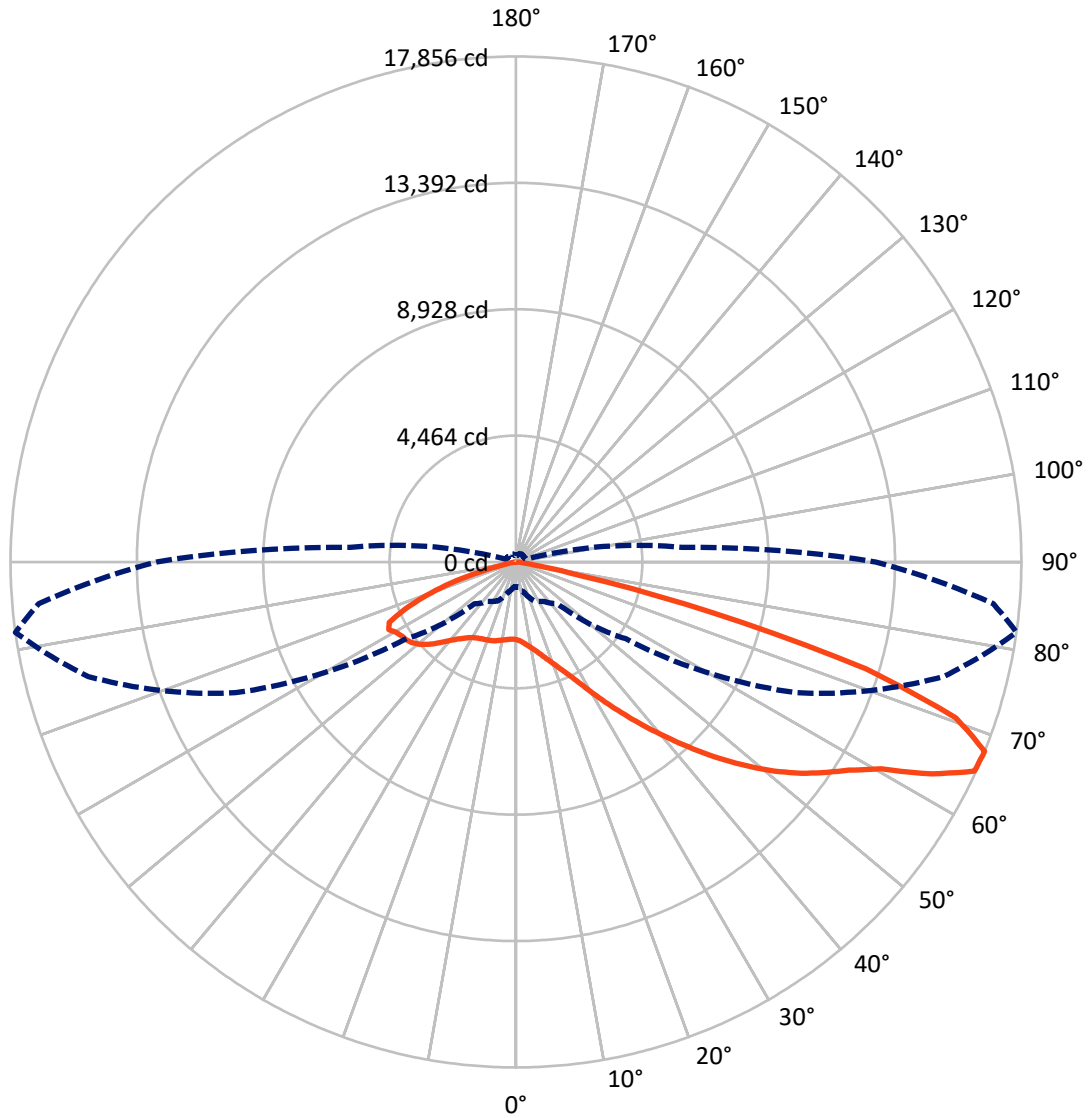
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2997.3	0.0	2997.3
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	13549.7	0.0	13549.7
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	16547.0	0.0	16547.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.2	1.5
10°-20°	634.7	3.8
20°-30°	1016.5	6.1
30°-40°	1797.5	10.9
40°-50°	3149.4	19.0
50°-60°	4200.4	25.4
60°-70°	3910.4	23.6
70°-80°	1500.8	9.1
80°-90°	93.2	0.6
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°	16547.0	100.0
0°-180°	16547.0	100.0

**Coefficient of Utilization**



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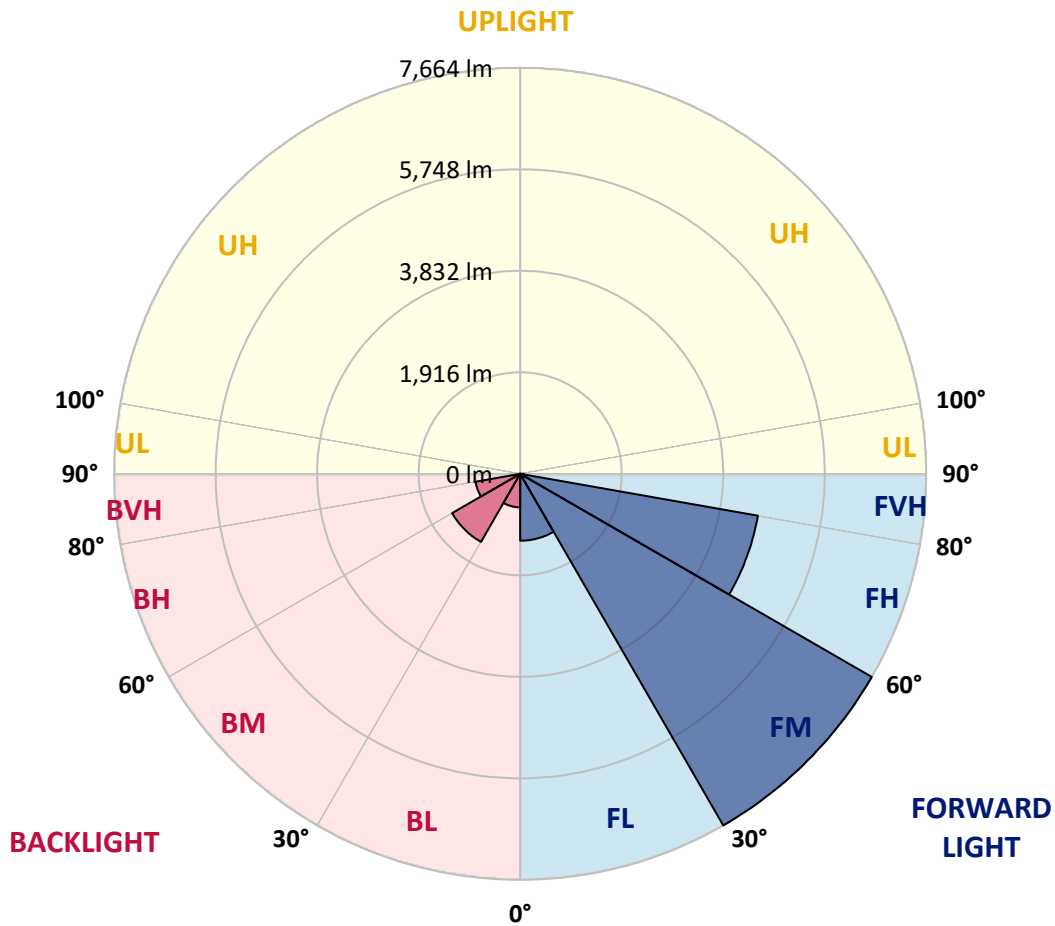
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1262.4	7.6			
FM (30°-60°)	7663.9	46.3			
FH (60°-80°)	4555.6	27.5			G2/5000
FVH (80°-90°)	67.8	0.4			G1/100
BL (0°-30°)	633.0	3.8	B2/1000		
BM (30°-60°)	1483.4	9.0	B2/2500		
BH (60°-80°)	855.5	5.2	B2/1000		G2/1000
BVH (80°-90°)	25.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2741.3	2741.3	2741.3	2741.3	2741.3	2741.3	2741.3	2741.3	2741.3	2741.3
2.5°	2897.3	2914.0	2904.5	2899.7	2891.4	2879.5	2869.9	2840.2	2809.2	2788.9
5°	2955.7	2972.4	2971.2	2976.0	2981.9	2985.5	2983.1	2949.8	2905.7	2871.1
7.5°	2905.7	2924.7	2940.2	2964.1	3005.8	3049.8	3071.3	3064.1	3018.9	2971.2
10°	2763.9	2784.2	2821.1	2877.1	2965.3	3060.6	3140.4	3177.3	3148.7	3096.3
12.5°	2504.2	2524.5	2597.1	2718.6	2866.4	3032.0	3184.5	3283.3	3290.5	3238.1
15°	2212.3	2232.6	2310.0	2462.5	2687.7	2953.3	3208.3	3395.3	3458.5	3413.2
17.5°	2031.2	2049.1	2107.5	2230.2	2464.9	2796.1	3199.9	3514.5	3658.6	3622.9
20°	1976.4	1991.9	2019.3	2105.1	2300.5	2632.9	3145.1	3626.4	3874.2	3854.0
22.5°	2034.8	2049.1	2057.4	2095.6	2218.3	2525.6	3076.0	3740.8	4124.4	4126.8
25°	2169.4	2183.7	2174.2	2198.0	2251.6	2492.3	3049.8	3875.4	4438.9	4465.1
27.5°	2391.0	2392.2	2369.6	2368.4	2376.7	2542.3	3077.2	4019.6	4835.7	4884.5
30°	2835.4	2817.5	2730.6	2636.4	2593.6	2692.4	3153.5	4189.9	5303.9	5390.8
32.5°	3520.4	3494.2	3334.6	3109.4	2883.0	2934.3	3290.5	4384.1	5813.7	5971.0
35°	4263.8	4256.7	4089.9	3755.1	3359.6	3278.6	3513.3	4639.1	6370.1	6620.3
37.5°	4954.8	4951.2	4855.9	4461.6	3980.3	3758.7	3870.7	4972.7	6965.8	7327.9
40°	5586.2	5596.9	5501.6	5149.0	4664.1	4374.6	4356.7	5384.9	7628.2	8098.7
42.5°	6131.8	6143.8	6047.3	5786.3	5339.6	5056.1	4953.6	5890.0	8275.1	8926.7
45°	6502.3	6576.2	6561.9	6353.4	6033.0	5738.7	5670.8	6523.8	9012.5	9804.7
47.5°	6607.2	6675.1	6782.3	6810.9	6615.5	6326.0	6407.0	7287.4	9758.3	10684.0
50°	6348.7	6411.8	6634.6	6931.2	7067.0	6977.7	7123.0	8105.9	10521.9	11560.8
52.5°	5838.8	5903.1	6184.3	6653.6	7207.6	7488.8	7841.4	8912.4	11261.8	12391.1
55°	5101.3	5169.2	5530.2	6061.5	6939.6	7699.6	8440.7	9717.8	11939.6	13138.1
57.5°	4098.2	4148.3	4523.5	5266.9	6265.3	7490.0	8882.6	10597.0	12578.2	13872.0
60°	2671.0	2715.1	3151.1	3980.3	5147.8	6789.5	8970.8	11577.5	13426.4	14826.3
62.5°	1776.3	1806.1	2064.6	2673.4	3625.3	5444.4	8455.0	12360.2	14670.2	16487.0
65°	1218.7	1248.5	1507.0	1931.2	2342.2	3601.4	6971.7	12256.5	15797.2	17805.8
67.5°	869.7	894.7	1113.9	1514.2	1695.3	2092.0	4726.1	10931.8	15635.2	17855.8
70°	623.1	637.4	818.5	1179.4	1347.4	1256.9	2628.1	8360.8	13689.7	16488.2
72.5°	436.0	440.8	568.3	898.3	1085.3	917.3	1250.9	5574.3	10354.0	12941.5
75°	295.5	301.4	382.4	658.8	870.9	700.5	662.4	2989.1	6078.2	7163.5
77.5°	181.1	183.5	246.6	450.3	651.7	533.7	426.5	1266.4	2351.7	2308.8
80°	102.5	102.5	157.3	280.0	444.4	344.3	299.0	538.5	744.6	654.0
82.5°	57.2	58.4	114.4	173.9	294.3	203.7	164.4	249.0	321.7	284.7
85°	23.8	26.2	70.3	82.2	140.6	101.3	66.7	104.8	119.1	106.0
87.5°	2.4	3.6	21.4	15.5	16.7	20.3	9.5	20.3	16.7	16.7
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°
2741.3	0°	2741.3	2741.3	2741.3	2741.3	2741.3	2741.3	2741.3	2741.3	2741.3	2741.3
2781.8	2.5°	2759.1	2741.3	2696.0	2643.6	2574.5	2541.1	2495.9	2464.9	2438.7	2441.1
2850.9	5°	2812.8	2767.5	2666.2	2539.9	2382.7	2270.7	2151.6	2069.4	2002.6	1988.3
2946.2	7.5°	2886.6	2815.1	2637.6	2410.1	2144.4	1943.1	1763.2	1647.6	1565.4	1539.2
3061.7	10°	2981.9	2878.3	2600.7	2246.9	1864.5	1608.3	1415.3	1324.8	1268.8	1249.7
3197.6	12.5°	3092.7	2951.0	2551.9	2047.9	1576.1	1329.5	1206.8	1161.6	1143.7	1137.7
3364.3	15°	3232.1	3041.5	2478.0	1812.0	1331.9	1159.2	1106.8	1100.8	1103.2	1100.8
3564.5	17.5°	3397.7	3140.4	2357.7	1569.0	1167.5	1072.2	1053.1	1057.9	1063.9	1062.7
3788.5	20°	3578.8	3238.1	2204.0	1353.4	1055.5	1010.3	999.5	1004.3	1009.1	1006.7
4047.0	22.5°	3784.9	3342.9	2033.6	1185.4	980.5	953.1	941.2	942.4	942.4	937.6
4374.6	25°	4031.5	3458.5	1854.9	1066.3	923.3	901.8	887.5	882.8	875.6	861.3
4772.5	27.5°	4325.8	3581.2	1683.4	982.9	878.0	857.8	841.1	829.2	811.3	787.5
5250.2	30°	4657.0	3730.1	1538.0	930.4	842.3	822.0	803.0	785.1	758.9	729.1
5799.5	32.5°	5046.5	3889.7	1432.0	895.9	810.1	788.7	766.0	744.6	716.0	686.2
6416.6	35°	5511.1	4082.7	1370.0	872.1	785.1	756.5	731.5	707.7	686.2	660.0
7087.3	37.5°	6015.1	4287.6	1351.0	860.1	768.4	724.3	695.7	679.1	676.7	661.2
7812.8	40°	6566.7	4530.7	1365.3	853.0	750.5	693.4	662.4	658.8	664.8	637.4
8588.4	42.5°	7150.4	4819.0	1389.1	844.7	725.5	662.4	632.6	632.6	627.8	589.7
9408.0	45°	7781.8	5151.4	1412.9	824.4	695.7	631.4	608.8	600.4	580.2	543.3
10232.4	47.5°	8418.0	5489.7	1430.8	787.5	660.0	605.2	584.9	565.9	536.1	502.7
11041.4	50°	9022.0	5793.5	1411.7	732.7	619.5	580.2	558.7	532.5	500.4	477.7
11807.4	52.5°	9561.7	6056.8	1330.7	668.3	576.6	554.0	534.9	507.5	481.3	457.5
12498.4	55°	10031.1	6270.0	1187.8	607.6	538.5	531.3	512.3	477.7	442.0	421.7
13183.4	57.5°	10481.4	6432.1	1009.1	557.5	503.9	506.3	477.7	446.8	413.4	392.0
14106.7	60°	11080.7	6648.9	828.0	511.1	467.0	474.2	443.2	420.5	378.8	351.4
15690.0	62.5°	12038.5	6986.0	657.6	453.9	424.1	426.5	413.4	386.0	336.0	303.8
16863.4	65°	12798.6	6862.1	518.2	392.0	375.3	378.8	378.8	349.1	295.5	258.5
16926.6	67.5°	12712.8	5875.7	413.4	331.2	328.8	331.2	339.5	314.5	262.1	232.3
15637.6	70°	11710.9	4673.6	331.2	275.2	285.9	280.0	303.8	287.1	235.9	206.1
12123.1	72.5°	9555.8	3366.7	252.6	227.5	219.2	228.7	274.0	258.5	196.6	163.2
6421.3	75°	5583.8	1796.5	188.2	179.9	158.4	190.6	243.0	220.4	150.1	120.3
1968.1	77.5°	1818.0	626.6	138.2	132.2	117.9	153.7	207.3	185.8	122.7	95.3
576.6	80°	487.3	189.4	94.1	87.0	76.2	114.4	164.4	147.7	88.2	61.9
247.8	82.5°	195.4	79.8	54.8	48.8	41.7	78.6	129.9	119.1	65.5	39.3
77.4	85°	63.1	26.2	20.3	15.5	19.1	48.8	77.4	81.0	46.5	20.3
11.9	87.5°	8.3	3.6	3.6	4.8	3.6	8.3	23.8	22.6	13.1	2.4
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>
2741.3
2417.2
1956.2
1513.0
1235.4
1134.2
1099.6
1060.3
1005.5
935.2
859.0
785.1
726.7
687.4
657.6
660.0
638.6
589.7
542.1
501.6
474.2
455.1
419.4
389.6
347.9
301.4
254.9
227.5
202.5
159.6
116.8
91.7
60.8
39.3
15.5
0.0
0.0

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