

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: P943516

Luminaire Tested: **GALN-SB8A-740-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943516  
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-740-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

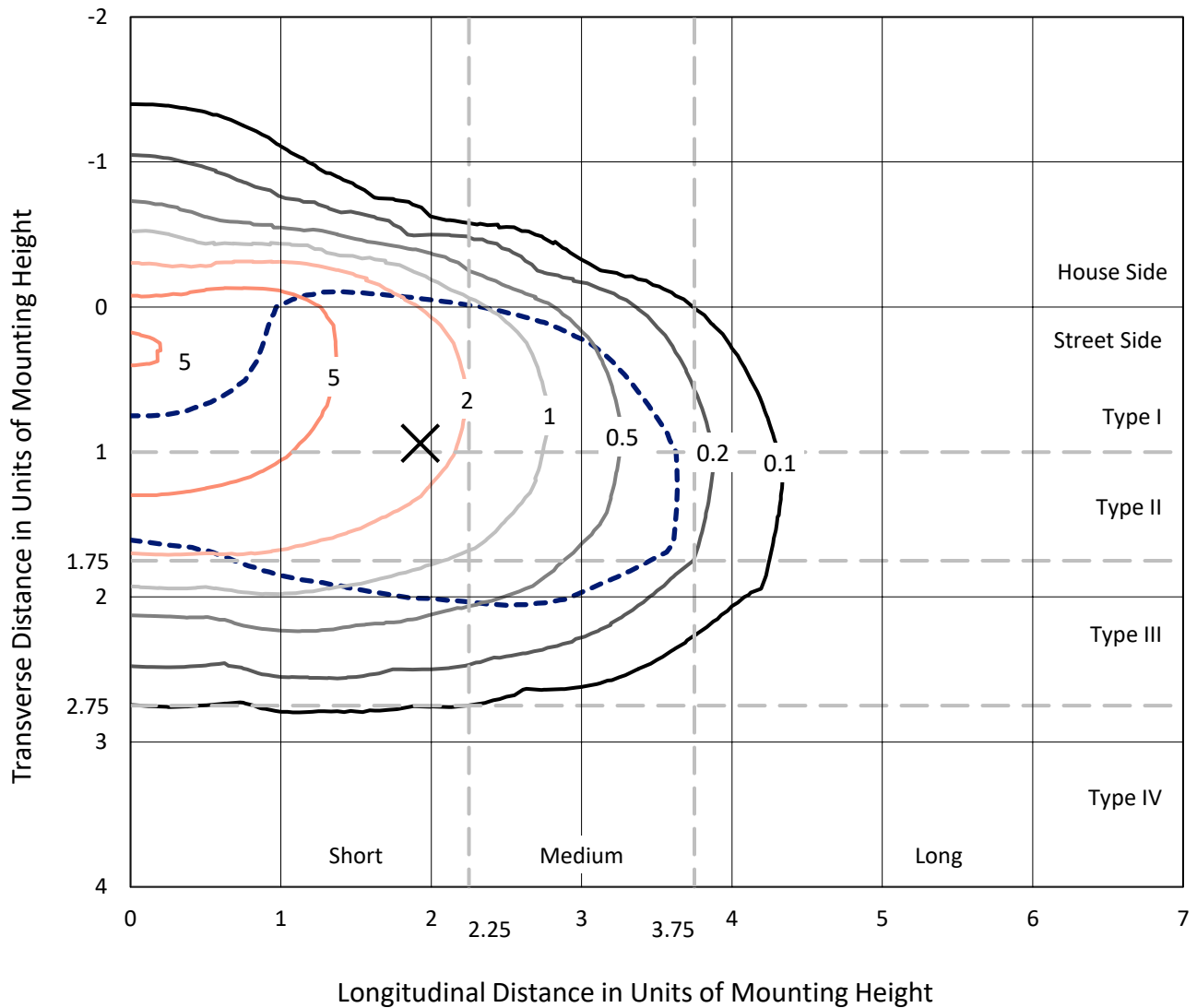
Lumens per Lamp: N/A  
Luminaire Lumens: 30097 lumens  
Efficiency: N/A  
Efficacy: 132.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

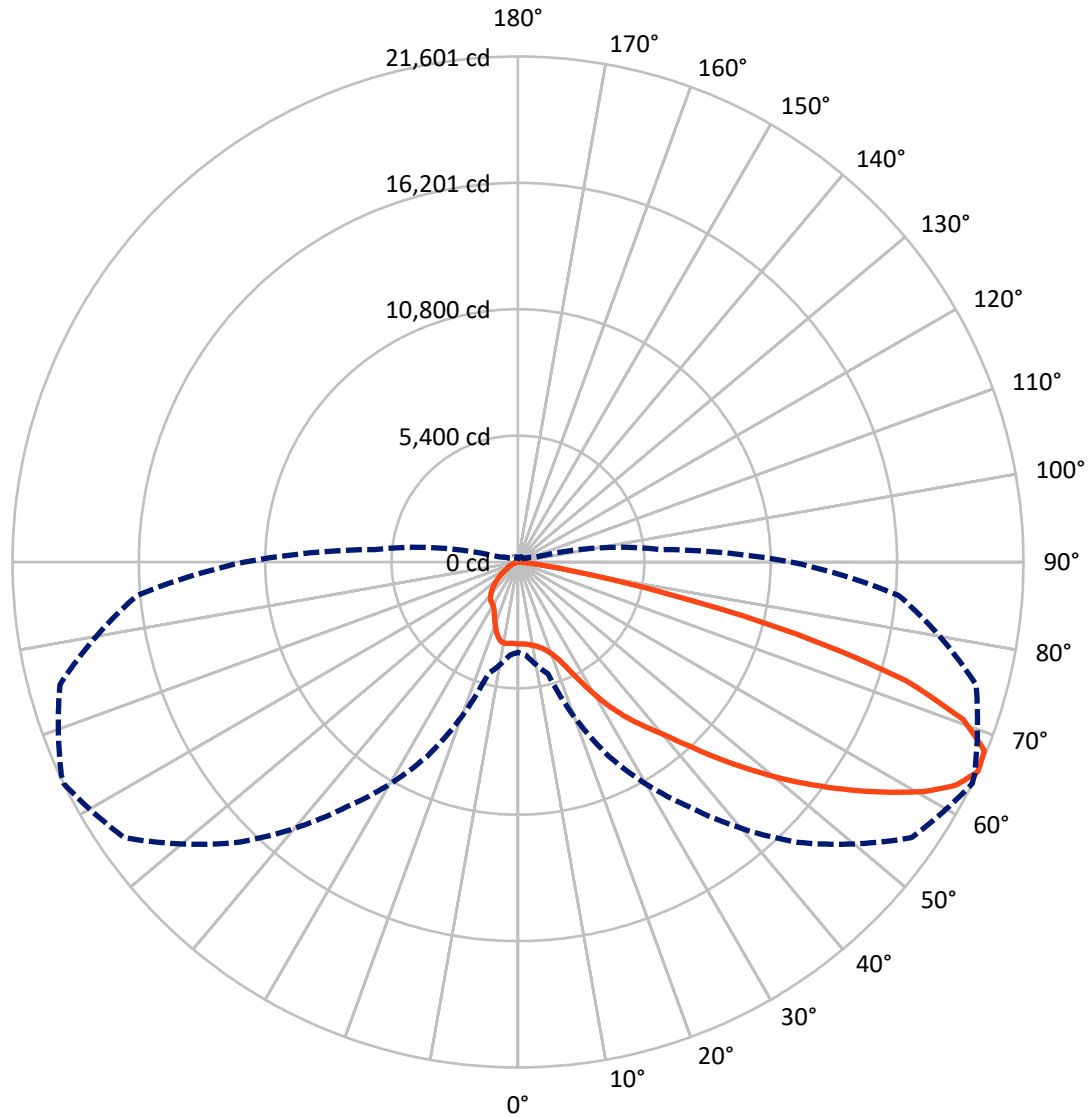
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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	4024.9	0.0	4024.9
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	26072.1	0.0	26072.1
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	30097.0	0.0	30097.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	323.0	1.1
10°-20°	876.0	2.9
20°-30°	1659.9	5.5
30°-40°	3358.8	11.2
40°-50°	5721.8	19.0
50°-60°	7781.2	25.9
60°-70°	7307.0	24.3
70°-80°	2927.5	9.7
80°-90°	141.8	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°	30097.0	100.0
0°-180°	30097.0	100.0

**Coefficient of Utilization**



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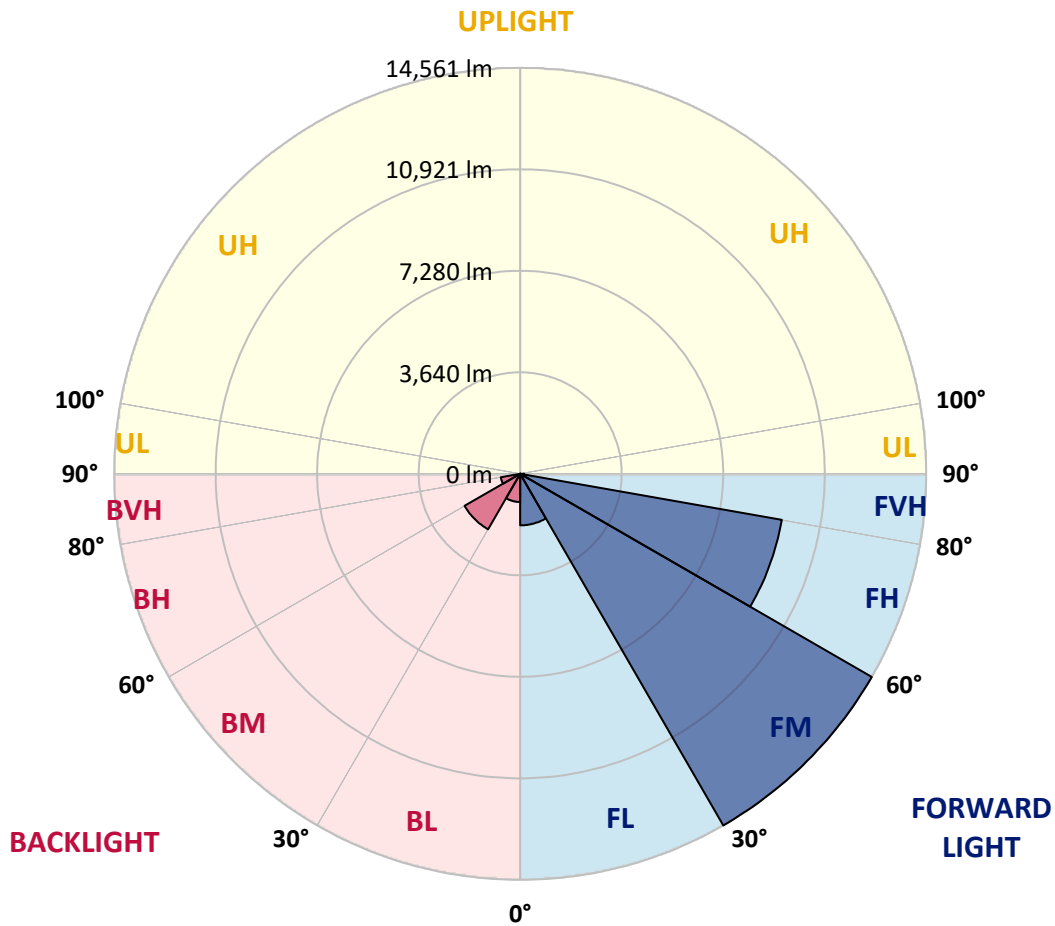
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1848.3	6.1			
FM (30°-60°)	14560.9	48.4			
FH (60°-80°)	9528.0	31.7			G4/12000
FVH (80°-90°)	134.9	0.4			G2/225
BL (0°-30°)	1010.5	3.4	B3/2500		
BM (30°-60°)	2301.0	7.6	B2/2500		
BH (60°-80°)	706.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	6.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6
2.5°	3488.5	3512.7	3506.6	3500.6	3498.6	3502.6	3504.6	3502.6	3502.6	3502.6
5°	3421.9	3442.1	3442.1	3456.2	3476.4	3500.6	3518.8	3522.8	3526.8	3532.9
7.5°	3294.8	3310.9	3323.0	3369.4	3419.9	3484.5	3538.9	3567.2	3571.2	3593.4
10°	3208.0	3228.2	3248.4	3296.8	3369.4	3466.3	3559.1	3627.7	3637.8	3690.3
12.5°	3204.0	3224.2	3250.4	3302.9	3387.6	3490.5	3603.5	3702.4	3720.5	3797.2
15°	3246.4	3270.6	3294.8	3359.4	3450.2	3575.2	3696.3	3819.4	3837.5	3946.5
17.5°	3333.1	3365.4	3383.6	3448.1	3545.0	3684.2	3843.6	3984.8	4001.0	4128.1
20°	3504.6	3543.0	3549.0	3601.5	3696.3	3845.6	4035.3	4210.8	4231.0	4376.2
22.5°	3859.7	3914.2	3865.8	3892.0	3976.8	4126.1	4331.9	4553.8	4582.0	4747.5
25°	4485.2	4561.9	4436.8	4392.4	4428.7	4584.1	4842.3	5122.8	5155.1	5288.2
27.5°	5713.9	5615.1	5425.4	5239.8	5130.8	5219.6	5510.2	5857.2	5897.5	6026.7
30°	7063.7	6977.0	6720.7	6309.1	6050.9	6036.8	6305.1	6692.5	6738.9	6862.0
32.5°	8415.5	8332.8	8054.4	7548.0	7100.1	6878.1	7063.7	7493.5	7517.7	7596.4
35°	9745.2	9660.4	9382.0	8863.5	8312.6	7808.2	7771.9	8256.2	8264.2	8346.9
37.5°	11082.9	11012.2	10715.6	10207.2	9664.5	8968.4	8631.4	8978.5	8988.6	9069.3
40°	12037.2	12067.5	11863.7	11470.2	11004.2	10243.5	9595.9	9747.2	9686.7	9821.8
42.5°	12856.4	12916.9	12739.3	12541.6	12271.2	11601.4	10790.3	10764.1	10667.2	10739.9
45°	13564.5	13615.0	13455.6	13409.2	13403.1	12933.0	12095.7	11938.3	11803.2	11789.0
47.5°	13824.8	13921.7	13990.3	14145.6	14448.3	14250.5	13445.5	13201.4	13050.1	12939.1
50°	13923.7	14026.6	14260.6	14712.6	15428.8	15513.6	14789.3	14514.9	14329.2	14127.5
52.5°	13790.5	13974.1	14288.9	15049.5	16088.6	16526.4	16078.5	15838.4	15626.6	15297.7
55°	13005.7	13189.3	13832.9	15045.5	16417.5	17236.6	17297.2	17190.2	16952.2	16433.6
57.5°	11351.2	11623.6	12642.5	14533.0	16411.4	17848.0	18491.6	18568.3	18302.0	17559.5
60°	9059.2	9428.4	10671.3	13397.1	15905.0	18178.9	19538.8	19922.1	19639.6	18669.2
62.5°	6321.2	6749.0	7925.3	11617.5	14746.9	17940.8	20303.4	21011.6	20797.8	19661.8
65°	3855.7	3992.9	4941.2	9141.9	12777.7	16944.1	20539.5	21600.8	21530.2	20269.1
67.5°	2568.4	2683.5	2955.8	6268.8	9918.7	14952.7	19974.6	21497.9	21518.1	20170.3
70°	1547.5	1646.4	1823.9	3645.9	6428.2	11835.4	18225.3	20186.4	20303.4	18848.7
72.5°	637.6	704.2	865.6	1652.4	3329.1	7511.6	14512.8	17331.5	17603.8	15848.5
75°	361.2	395.5	508.4	829.2	1444.6	3500.6	8790.8	12303.5	12705.0	10923.5
77.5°	240.1	256.2	328.9	536.7	813.1	1194.4	3756.8	6410.0	7176.7	5966.1
80°	161.4	175.5	226.0	359.1	528.6	512.5	1196.5	2374.8	2921.5	2049.9
82.5°	109.0	111.0	161.4	236.1	334.9	248.2	353.1	738.5	928.1	593.2
85°	62.5	60.5	119.0	137.2	149.3	102.9	106.9	221.9	290.5	250.2
87.5°	8.1	12.1	46.4	36.3	20.2	22.2	22.2	38.3	56.5	60.5
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°
3500.6	0°	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6	3500.6
3504.6	2.5°	3504.6	3502.6	3496.6	3490.5	3476.4	3468.3	3472.3	3468.3	3466.3	3468.3
3530.9	5°	3530.9	3524.8	3508.7	3488.5	3460.2	3425.9	3403.7	3371.5	3341.2	3323.0
3601.5	7.5°	3601.5	3595.4	3573.2	3516.7	3425.9	3282.7	3151.5	3036.5	2949.8	2899.3
3714.5	10°	3714.5	3704.4	3670.1	3545.0	3306.9	2994.2	2733.9	2518.0	2376.8	2310.2
3847.6	12.5°	3847.6	3835.5	3775.0	3518.8	3080.9	2592.7	2233.5	1993.4	1862.3	1803.8
4001.0	15°	4005.0	3988.9	3869.8	3393.7	2752.1	2148.8	1819.9	1640.3	1555.6	1503.1
4196.7	17.5°	4200.7	4172.5	3940.4	3206.0	2394.9	1809.8	1565.7	1430.5	1355.8	1305.4
4452.9	20°	4454.9	4408.5	3996.9	2982.1	2066.1	1595.9	1394.2	1281.2	1224.7	1180.3
4816.1	22.5°	4810.0	4743.5	4065.5	2739.9	1834.0	1448.7	1267.1	1184.4	1137.9	1087.5
5322.5	25°	5249.9	5171.2	4150.3	2516.0	1674.6	1321.5	1174.3	1105.7	1051.2	992.7
5986.3	27.5°	5865.3	5724.0	4251.2	2332.4	1537.4	1212.6	1089.5	1012.9	950.3	901.9
6738.9	30°	6551.3	6319.2	4339.9	2221.4	1412.3	1111.7	978.6	901.9	843.4	809.1
7414.8	32.5°	7200.9	6886.2	4398.4	2173.0	1299.4	996.7	857.5	774.8	730.4	720.3
8076.6	35°	7814.3	7398.7	4392.4	2126.6	1198.5	881.7	738.5	653.7	619.4	625.5
8788.8	37.5°	8520.5	7945.4	4350.0	2054.0	1115.8	776.8	635.6	560.9	530.6	532.7
9654.4	40°	9341.6	8577.0	4323.8	1916.8	1025.0	679.9	550.8	490.3	468.1	460.0
10566.3	42.5°	10217.3	9188.3	4327.8	1761.4	912.0	593.2	492.3	441.9	421.7	415.6
11581.2	45°	11097.0	9771.4	4333.9	1600.0	792.9	526.6	449.9	407.6	395.5	387.4
12610.2	47.5°	11924.2	10267.7	4220.9	1426.5	675.9	476.2	415.6	387.4	377.3	367.2
13643.2	50°	12694.9	10598.6	3948.5	1224.7	583.1	435.8	389.4	369.2	359.1	349.1
14579.4	52.5°	13294.2	10651.1	3498.6	1016.9	518.5	405.5	373.3	355.1	343.0	332.9
15336.0	55°	13560.5	10322.2	2859.0	823.2	468.1	379.3	357.1	339.0	324.8	314.8
15931.2	57.5°	13491.9	9630.2	2229.5	661.8	419.7	353.1	336.9	324.8	308.7	292.6
16413.4	60°	13155.0	8704.1	1680.7	550.8	375.3	324.8	314.8	304.7	282.5	258.3
16599.1	62.5°	12571.9	7539.9	1198.5	456.0	326.9	292.6	288.5	280.5	248.2	203.8
16324.7	65°	11680.1	6125.5	807.1	379.3	280.5	256.2	258.3	244.1	201.8	151.3
15319.9	67.5°	10376.7	4479.1	516.5	310.7	234.0	213.9	215.9	207.8	171.5	129.1
13415.2	70°	8716.2	2965.9	336.9	236.1	187.6	165.4	177.6	179.6	145.3	104.9
10296.0	72.5°	6389.8	1751.3	236.1	175.5	137.2	115.0	145.3	149.3	117.0	78.7
6194.1	75°	3641.8	831.3	177.6	127.1	84.7	80.7	113.0	113.0	80.7	52.5
2681.4	77.5°	1529.4	347.0	125.1	82.7	48.4	46.4	76.7	70.6	40.4	24.2
653.7	80°	441.9	155.4	66.6	40.4	20.2	18.2	30.3	22.2	10.1	4.0
248.2	82.5°	173.5	68.6	26.2	16.1	8.1	8.1	4.0	0.0	0.0	0.0
141.2	85°	102.9	28.2	12.1	6.1	2.0	0.0	0.0	0.0	0.0	0.0
30.3	87.5°	26.2	6.1	4.0	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

<u>180°</u>
3500.6
3476.4
3327.1
2901.4
2304.1
1797.7
1505.2
1301.4
1172.2
1079.4
986.6
891.8
803.0
726.3
625.5
540.7
458.0
413.6
387.4
367.2
349.1
330.9
312.7
290.5
254.2
199.7
147.3
123.1
100.9
74.7
48.4
24.2
4.0
0.0
0.0
0.0
0.0

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