

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: P957407

Luminaire Tested: **GALN-SB9D-735-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957407  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9D-735-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

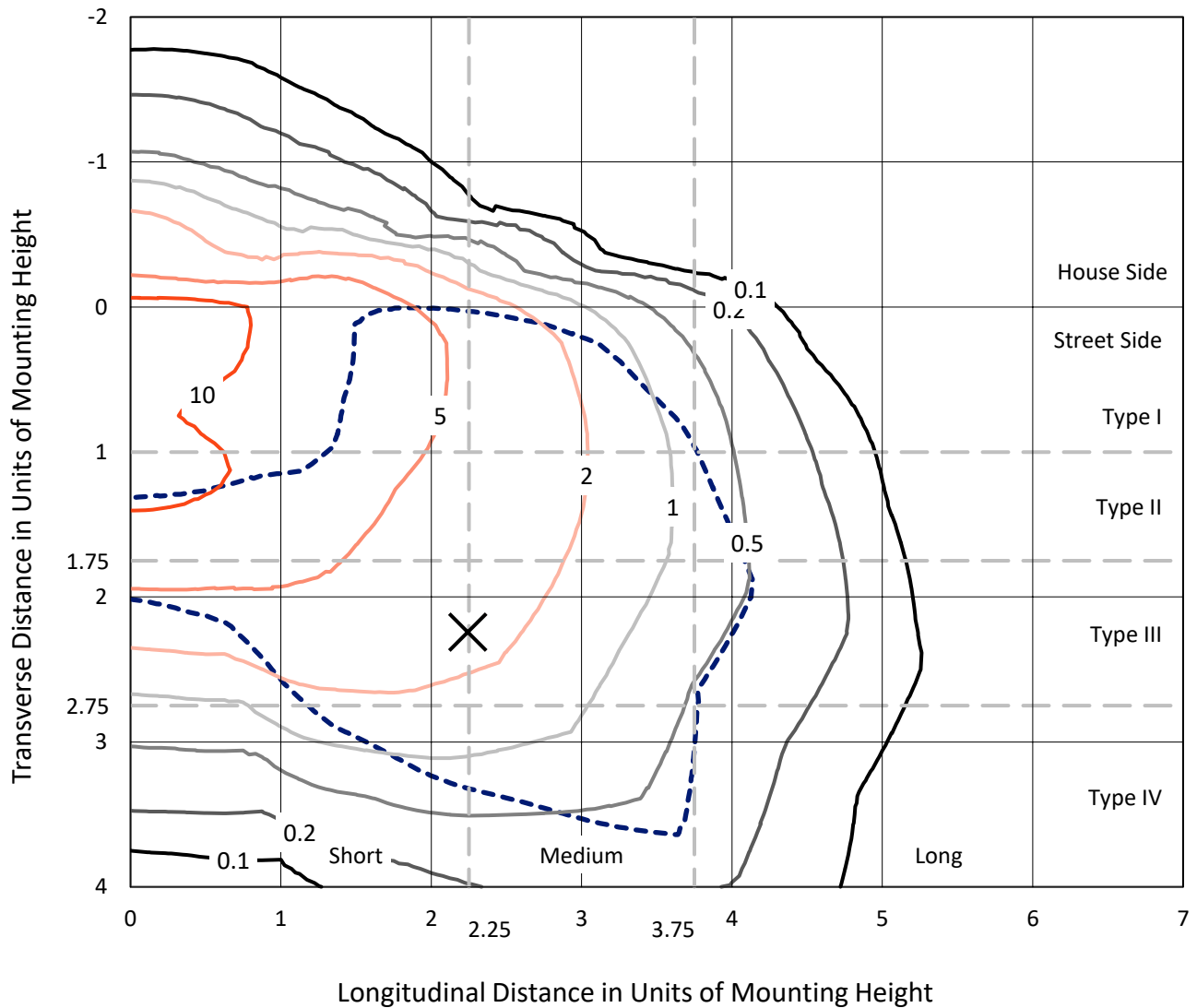
Lumens per Lamp: N/A  
Luminaire Lumens: 71396 lumens  
Efficiency: N/A  
Efficacy: 108.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

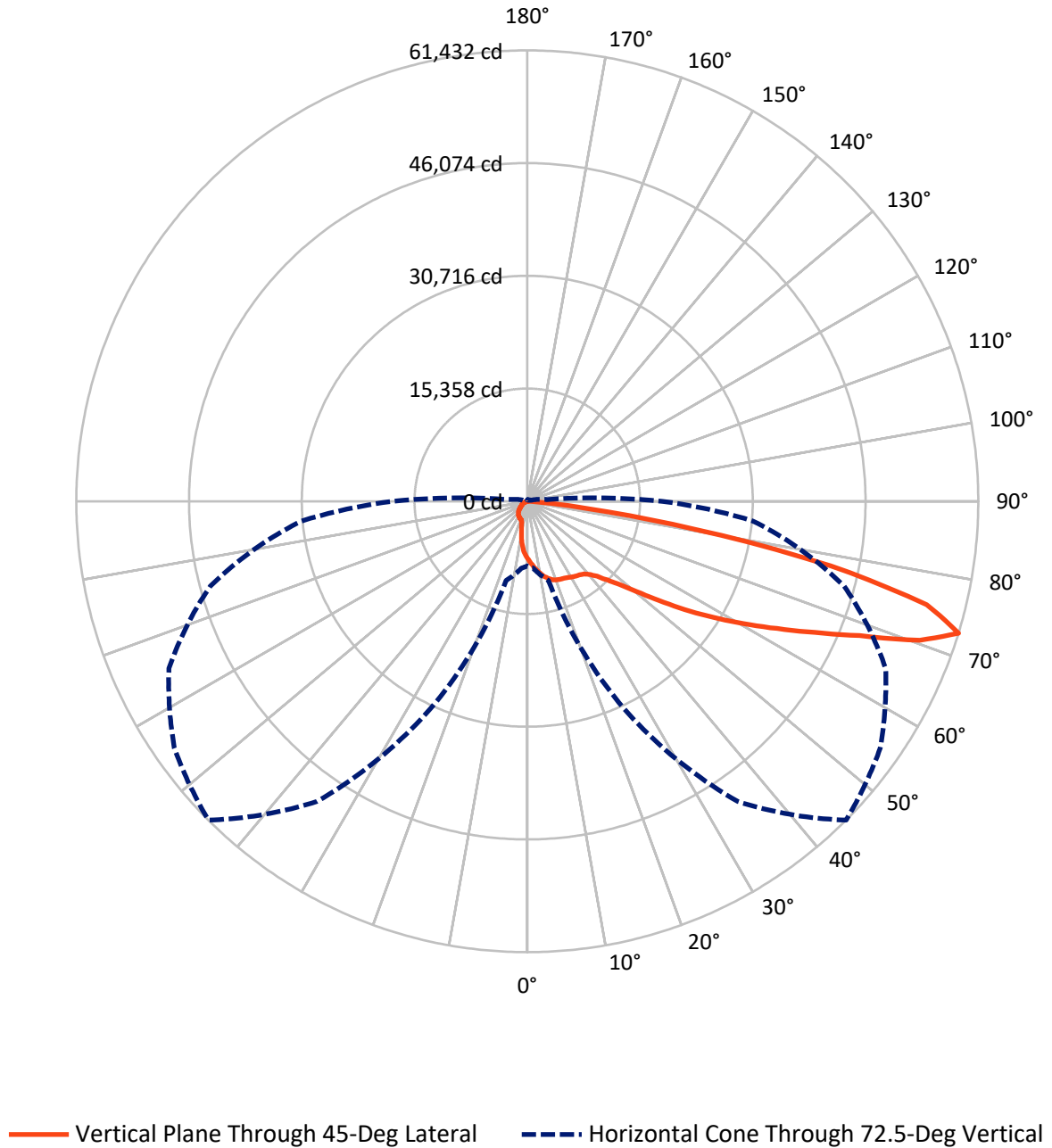
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7501.7	0.0	7501.7
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	63894.2	0.0	63894.2
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	71396.0	0.0	71396.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	736.9	1.0
10°-20°	2153.8	3.0
20°-30°	3536.9	5.0
30°-40°	5016.1	7.0
40°-50°	8291.1	11.6
50°-60°	14894.0	20.9
60°-70°	20681.1	29.0
70°-80°	15001.5	21.0
80°-90°	1084.5	1.5
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°	71396.0	100.0
0°-180°	71396.0	100.0

**Coefficient of Utilization**



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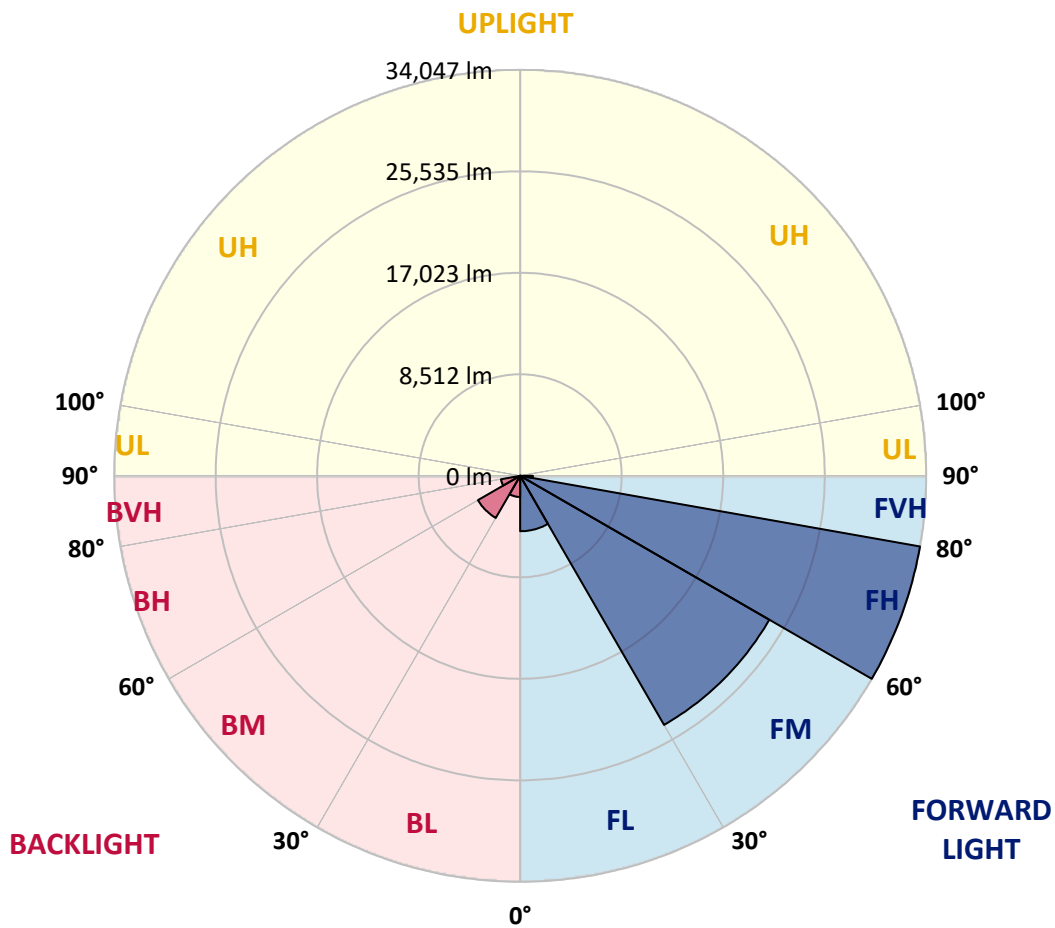
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4650.7	6.5			
FM (30°-60°)	24121.4	33.8			
FH (60°-80°)	34046.7	47.7			G5
FVH (80°-90°)	1075.4	1.5			G5
BL (0°-30°)	1776.9	2.5	B3/2500		
BM (30°-60°)	4079.9	5.7	B3/5000		
BH (60°-80°)	1635.9	2.3	B3/2500		G3/2500
BVH (80°-90°)	9.1	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-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	7821.6	7821.6	7821.6	7821.6	7821.6	7821.6	7821.6	7821.6	7821.6	7821.6
2.5°	8542.8	8557.4	8547.7	8489.2	8391.8	8338.1	8308.9	8211.4	8148.1	8036.0
5°	9327.4	9385.9	9351.8	9234.8	9049.6	8918.1	8879.1	8679.3	8499.0	8289.4
7.5°	10160.7	10190.0	10126.6	9975.6	9727.0	9502.9	9468.7	9191.0	8903.4	8581.8
10°	10882.0	10916.1	10818.6	10599.3	10316.7	10038.9	9990.2	9683.2	9342.0	8947.3
12.5°	11486.3	11520.4	11393.7	11130.5	10818.6	10531.1	10482.4	10160.7	9785.5	9346.9
15°	11944.4	12007.7	11837.2	11554.5	11218.2	10930.7	10906.4	10589.6	10224.1	9736.8
17.5°	12212.4	12275.7	12114.9	11773.8	11486.3	11242.6	11213.4	10950.2	10609.1	10141.3
20°	12256.3	12314.7	12144.2	11846.9	11608.1	11413.2	11398.6	11208.5	10960.0	10511.6
22.5°	12124.7	12197.8	12041.8	11803.0	11637.3	11535.0	11515.5	11408.3	11267.0	10886.9
25°	11988.2	12046.7	11929.7	11720.2	11632.5	11622.7	11637.3	11617.9	11588.6	11267.0
27.5°	11978.5	12041.8	11910.2	11710.4	11661.7	11764.1	11778.7	11871.3	11895.6	11613.0
30°	12061.3	12105.2	11978.5	11768.9	11744.6	11978.5	11983.3	12149.0	12188.0	11905.4
32.5°	12241.6	12290.4	12163.7	11856.6	11822.5	12149.0	12163.7	12383.0	12446.3	12217.3
35°	12665.6	12724.1	12577.9	12100.3	11978.5	12309.9	12353.7	12612.0	12738.7	12548.6
37.5°	13723.1	13552.5	13352.7	12592.5	12334.2	12563.3	12636.4	12938.5	13162.7	12943.4
40°	16349.8	15813.7	15190.0	13430.7	12958.0	13104.2	13162.7	13464.8	13771.8	13557.4
42.5°	20292.3	19658.7	18654.8	15360.5	13898.5	13971.6	14015.5	14278.7	14712.4	14541.8
45°	23805.9	23576.8	22553.5	18654.8	15657.8	15297.2	15350.8	15487.2	16125.6	16062.3
47.5°	26505.7	26374.1	25584.6	22436.5	18630.5	16920.0	17071.0	17134.4	18055.4	18279.6
50°	28581.7	28532.9	27826.3	25799.0	22514.5	19312.7	19366.3	19229.9	20609.0	21164.6
52.5°	30540.7	30706.4	30185.0	28922.8	26661.6	22446.2	22436.5	21793.2	23654.8	24493.0
55°	32309.7	32368.2	32421.8	32109.9	30833.1	26013.5	25920.9	24868.3	27187.9	28055.4
57.5°	33971.5	33995.9	34473.4	35111.8	35175.2	29843.8	29673.3	28411.1	31047.5	31666.4
60°	35087.5	35199.6	36208.3	37982.2	38757.0	33796.1	33703.5	32416.9	34975.4	35262.9
62.5°	33479.3	34161.6	36705.4	40223.9	42139.1	38177.1	38133.3	36924.7	39107.9	38874.0
65°	27100.2	28255.2	32728.8	41739.5	45457.8	43069.9	43133.2	41846.7	43352.5	42592.3
67.5°	18957.0	20175.3	25467.7	41861.3	49166.3	48815.5	49180.9	47163.4	47860.3	46154.7
70°	13109.1	13737.7	17183.1	39239.5	52056.2	56729.6	56719.9	53693.6	52343.7	47777.4
72.5°	8815.7	9142.2	11159.8	31130.4	49931.4	61432.3	61149.7	58683.8	53854.4	44682.9
75°	3718.3	3957.1	5165.7	17495.0	39502.7	56203.3	55438.2	51861.2	47850.5	35184.9
77.5°	1179.3	1281.7	2037.0	6262.1	21759.1	42246.3	41437.3	32387.7	32070.9	17651.0
80°	560.4	653.0	1145.2	2514.6	8562.3	22977.4	22865.3	14692.9	13796.2	4766.0
82.5°	243.7	287.5	633.5	1345.0	3830.4	8196.8	8362.5	5000.0	4137.4	1808.0
85°	78.0	102.3	292.4	618.9	1617.9	2037.0	2012.7	1189.1	1666.7	984.4
87.5°	0.0	0.0	97.5	141.3	165.7	117.0	131.6	102.3	463.0	272.9
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°
7821.6	0°	7821.6	7821.6	7821.6	7821.6	7821.6	7821.6	7821.6	7821.6	7821.6	7821.6
7919.0	2.5°	7860.6	7782.6	7646.1	7519.4	7407.4	7295.3	7227.0	7129.6	7119.8	7119.8
8045.8	5°	7914.2	7787.5	7543.8	7285.5	6988.3	6705.6	6423.0	6150.1	6062.3	5999.0
8250.4	7.5°	8070.1	7870.3	7485.3	6993.1	6427.8	5808.9	5375.2	4907.4	4727.1	4629.6
8523.3	10°	8294.3	8021.4	7436.6	6574.0	5657.9	4814.8	4195.9	3689.1	3494.1	3411.3
8820.6	12.5°	8542.8	8206.6	7348.9	6052.6	4814.8	3806.0	3201.7	2967.8	2938.6	2938.6
9176.4	15°	8840.1	8430.7	7197.8	5438.6	3932.7	3011.7	2797.3	2807.0	2836.2	2855.7
9522.4	17.5°	9147.1	8669.5	6959.0	4751.4	3153.0	2709.5	2714.4	2729.0	2753.4	2772.9
9897.6	20°	9478.5	8908.3	6642.3	4020.4	2704.7	2621.8	2636.4	2651.1	2670.5	2680.3
10248.5	22.5°	9834.2	9132.5	6267.0	3304.1	2553.6	2548.7	2553.6	2568.2	2592.6	2592.6
10657.8	25°	10214.4	9381.0	5838.2	2782.6	2475.6	2475.6	2485.4	2495.1	2514.6	2514.6
11052.6	27.5°	10604.2	9610.1	5385.0	2509.7	2407.4	2402.5	2402.5	2417.1	2426.9	2431.8
11442.4	30°	11033.1	9878.1	4931.7	2451.3	2353.8	2329.4	2314.8	2324.5	2334.3	2339.2
11851.8	32.5°	11471.7	10136.4	4527.3	2475.6	2300.2	2256.3	2207.6	2197.8	2197.8	2217.3
12275.7	35°	11959.0	10419.0	4215.4	2558.5	2270.9	2149.1	2071.1	2027.3	2032.1	2061.4
12782.6	37.5°	12543.8	10760.2	3986.3	2631.6	2251.4	2027.3	1900.6	1847.0	1812.9	1847.0
13479.4	40°	13308.9	11262.1	3820.6	2690.0	2227.1	1886.0	1715.4	1627.7	1564.3	1583.8
14561.3	42.5°	14434.6	12051.6	3757.3	2694.9	2173.5	1720.3	1525.3	1408.4	1315.8	1320.7
16189.0	45°	16013.5	13299.1	4083.8	2631.6	2056.5	1540.0	1325.5	1169.6	1111.1	1096.5
18620.7	47.5°	18177.3	15116.9	4839.1	2500.0	1886.0	1364.5	1130.6	999.0	955.2	930.8
21812.7	50°	21076.9	17451.1	5677.3	2353.8	1715.4	1198.8	969.8	886.9	857.7	833.3
25599.2	52.5°	24439.4	19819.6	6364.5	2207.6	1544.8	1052.6	867.4	818.7	794.3	774.8
29254.2	55°	27524.2	21452.1	6325.5	2051.6	1379.1	935.7	794.3	765.1	735.9	716.4
32402.3	57.5°	29444.2	21681.1	5214.4	1881.1	1189.1	843.1	726.1	706.6	672.5	648.1
35126.5	60°	30326.3	20375.1	3654.9	1656.9	999.0	755.4	653.0	643.3	599.4	565.3
37704.4	62.5°	30487.1	17948.2	2436.6	1379.1	833.3	672.5	579.9	565.3	506.8	448.3
39799.9	65°	29834.1	14478.5	1686.1	1077.0	711.5	584.8	497.1	467.8	404.5	346.0
40297.0	67.5°	27767.8	10165.6	1174.5	774.8	604.3	463.0	394.7	385.0	336.3	287.5
37762.9	70°	23981.3	5794.3	784.6	579.9	477.6	316.8	311.9	321.6	272.9	233.9
30852.6	72.5°	18386.8	2651.1	487.3	424.0	326.5	214.4	248.5	253.4	209.6	175.4
19249.4	75°	10823.5	1135.5	307.0	272.9	165.7	141.3	180.3	185.2	141.3	112.1
7037.0	77.5°	3684.2	428.8	194.9	160.8	82.8	78.0	117.0	117.0	78.0	43.9
1413.2	80°	838.2	160.8	97.5	63.4	39.0	34.1	39.0	34.1	19.5	4.9
433.7	82.5°	238.8	63.4	39.0	24.4	14.6	14.6	4.9	0.0	0.0	0.0
151.1	85°	68.2	29.2	9.7	9.7	0.0	0.0	0.0	0.0	0.0	0.0
53.6	87.5°	29.2	4.9	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

<u>180°</u>
7821.6
7144.2
6028.2
4644.2
3411.3
2938.6
2855.7
2772.9
2685.2
2602.3
2519.5
2436.6
2348.9
2232.0
2076.0
1837.2
1574.1
1301.2
1077.0
916.2
828.5
770.0
706.6
643.3
555.6
419.1
326.5
272.9
214.4
155.9
97.5
34.1
0.0
0.0
0.0
0.0
0.0

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