

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: P957422

Luminaire Tested: **GALN-SB9D-740-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957422  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9D-740-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

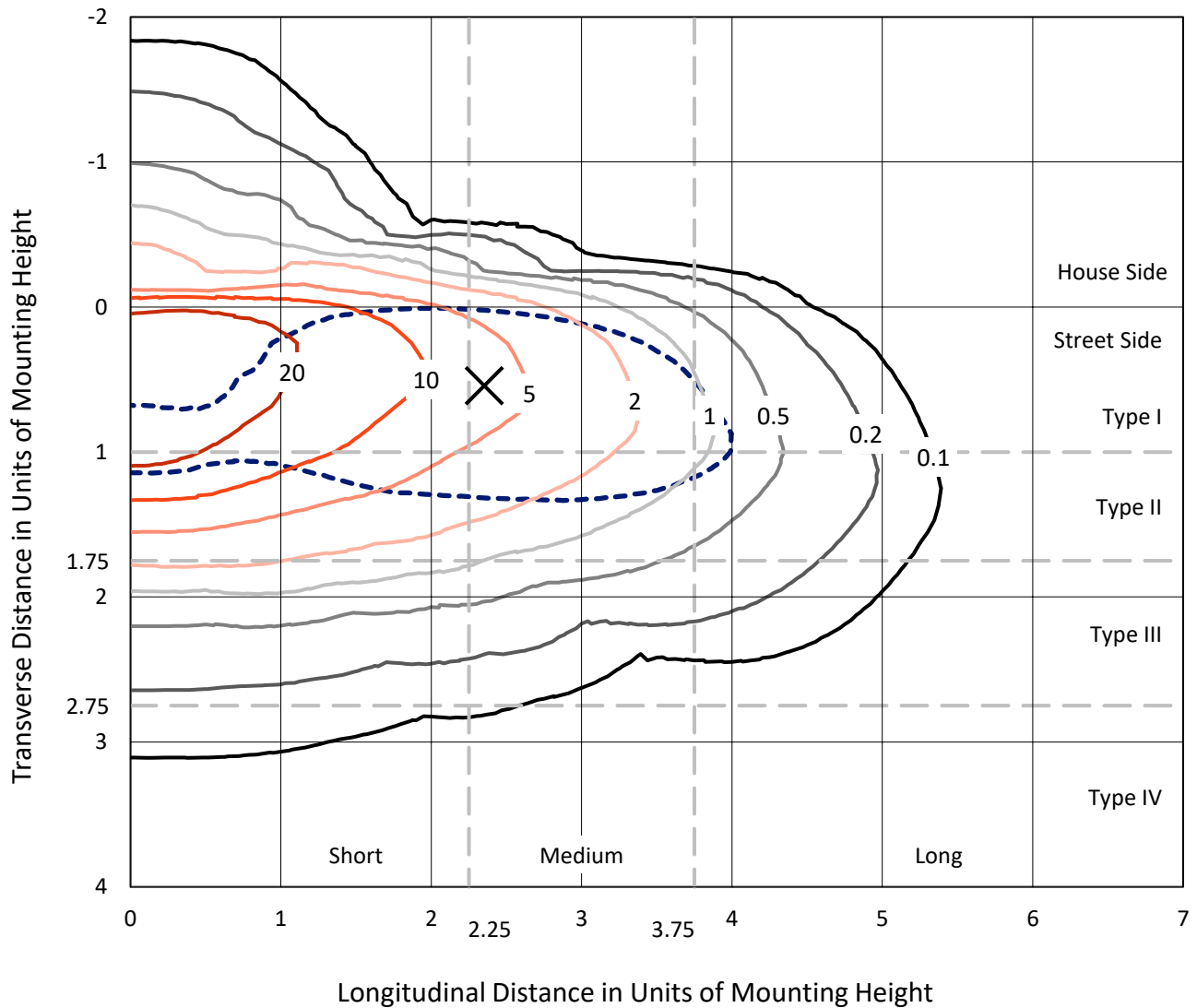
Lumens per Lamp: N/A  
Luminaire Lumens: 83026 lumens  
Efficiency: N/A  
Efficacy: 126.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

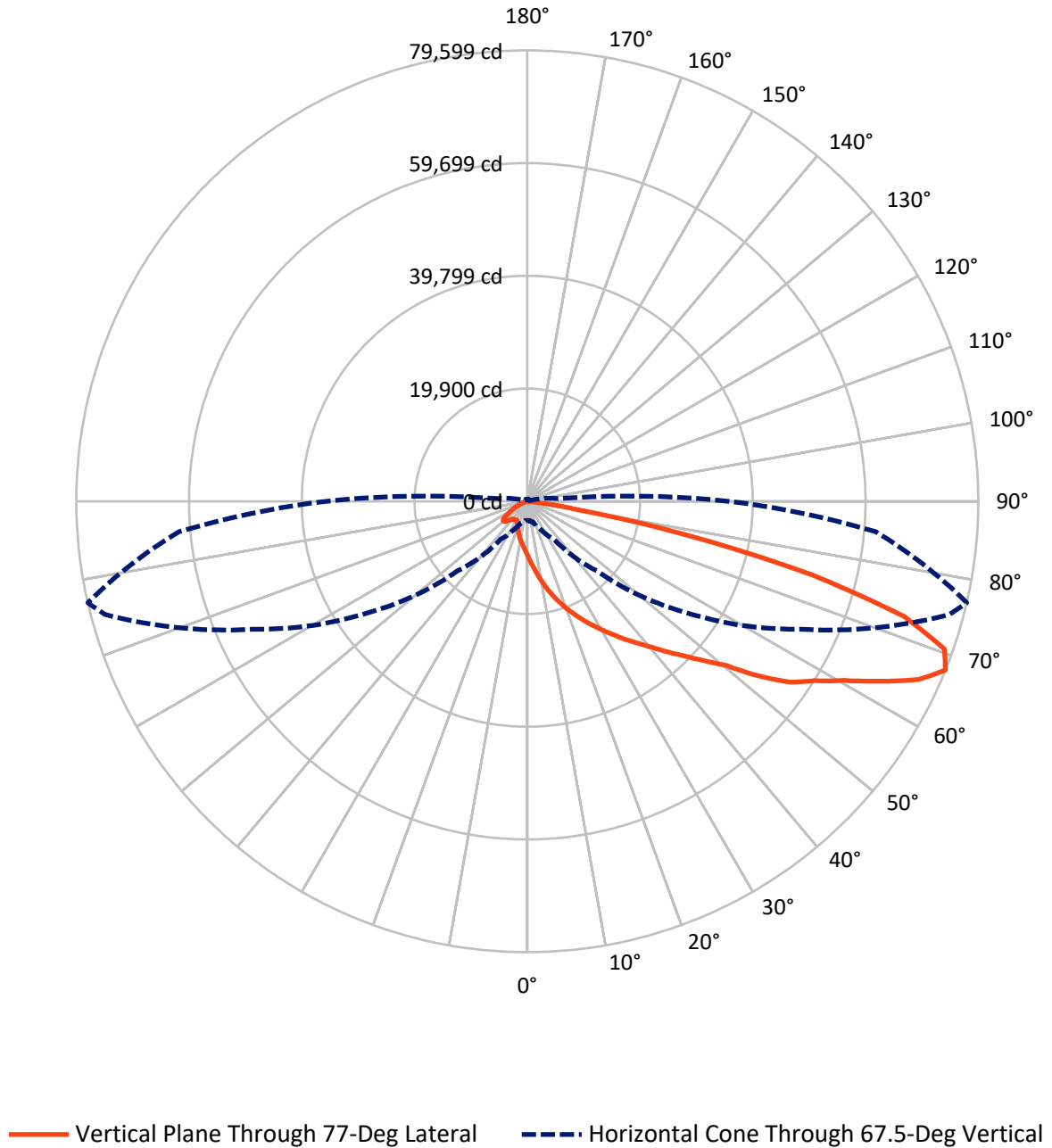
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 35.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6108.3	0.0	6108.3
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	76917.7	0.0	76917.7
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	83026.0	0.0	83026.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	977.2	1.2
10°-20°	3422.0	4.1
20°-30°	6603.6	8.0
30°-40°	11464.2	13.8
40°-50°	16645.4	20.0
50°-60°	19115.1	23.0
60°-70°	16595.4	20.0
70°-80°	7816.6	9.4
80°-90°	386.6	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°	83026.0	100.0
0°-180°	83026.0	100.0

**Coefficient of Utilization**



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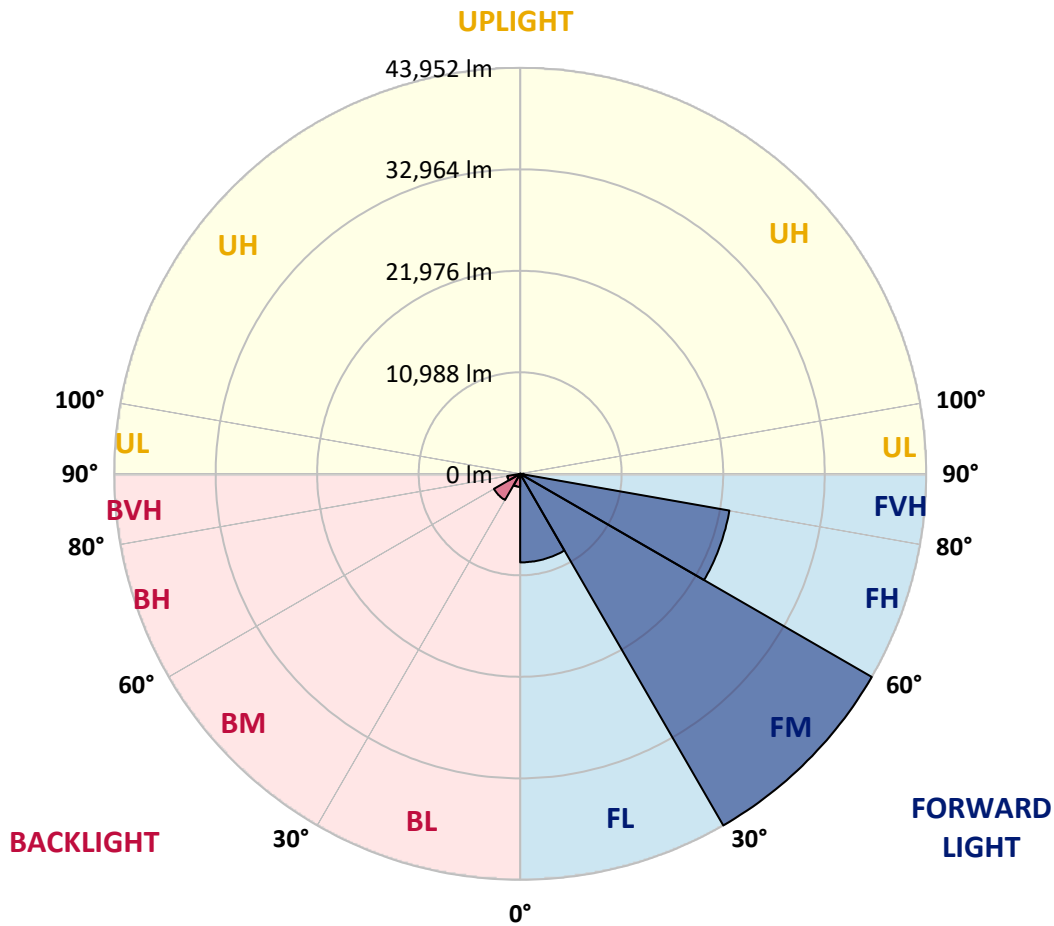
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9588.6	11.5			
FM (30°-60°)	43951.7	52.9			
FH (60°-80°)	22998.0	27.7			G5
FVH (80°-90°)	379.4	0.5			G3/500
BL (0°-30°)	1414.2	1.7	B3/2500		
BM (30°-60°)	3272.9	3.9	B3/5000		
BH (60°-80°)	1414.1	1.7	B3/2500		G3/2500
BVH (80°-90°)	7.1	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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	9574.1	9574.1	9574.1	9574.1	9574.1	9574.1	9574.1	9574.1	9574.1	9574.1
2.5°	13255.3	13337.8	13219.2	12992.3	12652.1	12430.4	11889.0	11378.6	10811.5	10631.0
5°	16157.9	16230.1	16096.1	15848.6	15394.9	14961.8	14250.3	13183.1	12074.6	11718.9
7.5°	18307.9	18349.1	18297.5	18070.7	17637.6	17147.8	16353.9	15090.7	13446.0	13054.2
10°	19854.6	19988.6	19973.1	19885.5	19596.8	19199.8	18354.3	16915.8	14982.4	14477.2
12.5°	20880.5	21030.1	21117.7	21313.6	21298.2	21045.5	20303.1	18782.2	16513.7	15920.8
15°	21179.6	21339.4	21674.5	22128.2	22530.4	22659.3	22138.5	20612.5	18199.6	17441.7
17.5°	21009.4	21256.9	21659.1	22375.7	23257.3	23839.9	23783.2	22380.9	19730.8	18864.7
20°	21385.8	21623.0	21937.5	22540.7	23566.7	24623.6	25046.3	24071.9	21251.8	20344.4
22.5°	23468.7	23427.5	23458.4	23556.4	24169.9	25216.5	26087.8	25608.3	22757.2	21829.2
25°	26768.3	26582.7	26268.2	25737.2	25582.5	26087.8	26995.2	26969.4	24345.2	23350.1
27.5°	30552.6	30521.7	29784.4	28505.8	27784.0	27588.1	28021.2	28294.4	25917.7	24855.6
30°	34177.1	34259.6	33264.5	31841.5	30516.5	29748.3	29356.5	29552.4	27515.9	26479.6
32.5°	37332.4	37420.0	36337.3	34672.0	33032.5	32104.5	31279.6	30794.9	29258.5	28129.5
35°	39997.9	40085.5	38843.0	37002.4	35254.6	34414.2	33481.1	32156.0	31011.5	29959.7
37.5°	42379.8	42354.0	40688.7	38832.7	37115.8	36450.7	35960.9	33831.6	32816.0	31800.3
40°	43787.3	43895.6	42472.6	40425.8	38760.5	38275.9	38244.9	35909.4	34898.9	33914.1
42.5°	44199.7	44390.5	43359.4	41678.6	40168.0	39642.1	40451.6	38157.3	37322.0	36363.1
45°	43457.3	43642.9	43173.8	42008.6	41126.9	40786.7	42348.8	40487.6	39910.2	38961.6
47.5°	41291.9	41523.9	41637.4	41389.9	41379.6	41725.0	44050.2	42941.8	42983.0	42013.7
50°	37100.4	37492.2	38533.6	39410.1	40766.0	42467.4	45705.2	45602.1	46447.6	45612.4
52.5°	29480.2	30037.1	33625.4	36022.8	39069.8	42328.2	47525.2	49871.0	52526.2	51304.3
55°	23690.4	23690.4	26608.5	31094.0	35759.9	41410.5	48319.1	52644.8	56666.2	56377.5
57.5°	19313.2	19545.2	21406.4	25371.2	30970.2	39224.5	48808.9	54387.4	60001.9	59790.5
60°	11920.0	12420.1	15936.2	19849.4	25520.7	35332.0	48499.6	56150.6	64049.1	64219.3
62.5°	6712.7	6898.3	8465.6	14281.3	19844.3	30098.9	46133.1	57135.4	69225.5	69947.3
65°	4635.0	4727.8	5331.0	8888.4	13755.4	23963.7	41508.5	56521.8	74412.1	75871.1
67.5°	3366.7	3413.1	3789.4	5428.9	8161.5	17374.7	34259.6	53428.4	77160.1	79598.7
70°	2588.2	2619.1	2892.3	3567.7	4820.6	10723.8	24881.4	47277.7	75170.0	78082.9
72.5°	2103.5	2134.5	2345.8	2639.7	3196.5	6341.5	15080.4	38394.4	66384.7	69529.6
75°	1773.6	1814.8	2005.6	2196.3	2505.7	4073.0	7073.6	26737.4	49922.6	51984.8
77.5°	984.7	907.4	1629.2	1820.0	2113.8	2577.8	3310.0	15735.2	27959.3	28531.6
80°	613.5	634.1	1294.1	1464.2	1624.0	1299.2	1515.8	6057.9	9692.7	9208.1
82.5°	36.1	82.5	995.0	1056.9	1113.6	556.8	572.3	2057.1	2335.5	2144.8
85°	0.0	0.0	453.7	366.1	386.7	159.8	165.0	479.5	314.5	340.3
87.5°	0.0	0.0	0.0	10.3	0.0	15.5	30.9	41.2	15.5	20.6
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°
9574.1	0°	9574.1	9574.1	9574.1	9574.1	9574.1	9574.1	9574.1	9574.1	9574.1	9574.1
10063.9	2.5°	9703.0	9342.1	8610.0	7893.4	7310.8	6769.4	6382.7	6016.7	5831.1	5820.8
10713.5	5°	9996.9	9239.0	7774.8	6480.7	5439.3	4604.0	4062.7	3676.0	3480.1	3413.1
11512.7	7.5°	10409.3	9269.9	7042.7	5243.3	4016.3	3299.6	2990.3	2866.6	2825.3	2778.9
12414.9	10°	10930.1	9342.1	6387.9	4222.5	3165.6	2804.7	2681.0	2629.4	2598.5	2567.5
13430.6	12.5°	11512.7	9409.1	5738.3	3505.9	2784.1	2598.5	2510.8	2449.0	2407.7	2371.6
14472.0	15°	12079.8	9450.4	5062.9	3005.8	2588.2	2438.6	2345.8	2278.8	2222.1	2180.9
15492.9	17.5°	12641.8	9507.1	4428.7	2706.7	2428.3	2278.8	2186.0	2103.5	2057.1	2010.7
16565.2	20°	13265.6	9496.8	3830.7	2495.4	2268.5	2119.0	2021.0	1943.7	1897.3	1845.7
17699.5	22.5°	13843.0	9445.2	3304.8	2314.9	2103.5	1959.2	1850.9	1773.6	1727.2	1685.9
18859.5	25°	14508.1	9404.0	2866.6	2149.9	1948.9	1804.5	1685.9	1613.7	1562.2	1526.1
20024.7	27.5°	15147.4	9342.1	2546.9	2000.4	1799.3	1660.1	1546.7	1464.2	1417.8	1392.0
21226.0	30°	15776.4	9326.6	2428.3	1856.0	1665.3	1526.1	1412.7	1335.3	1299.2	1288.9
22545.8	32.5°	16534.3	9367.9	2479.9	1804.5	1541.6	1402.3	1294.1	1237.4	1201.3	1201.3
24015.2	35°	17343.7	9357.6	2557.2	1850.9	1459.1	1278.6	1196.1	1160.0	1123.9	1123.9
25644.4	37.5°	18359.4	9373.0	2619.1	1928.2	1428.1	1175.5	1129.1	1082.7	1062.1	1062.1
27428.3	40°	19875.2	9883.5	2588.2	1995.3	1417.8	1103.3	1010.5	995.0	979.6	979.6
29444.2	42.5°	21731.2	10991.9	2629.4	2000.4	1412.7	1051.8	928.0	959.0	922.9	917.7
31717.8	45°	23762.6	12203.5	2892.3	1892.1	1407.5	1026.0	886.8	922.9	866.2	866.2
34352.4	47.5°	25778.5	13404.8	3160.4	1737.5	1392.0	1020.8	850.7	830.1	814.6	819.8
37786.1	50°	28557.4	14384.4	3263.6	1526.1	1355.9	1010.5	783.7	788.8	778.5	788.8
42627.3	52.5°	31583.8	14590.6	3139.8	1288.9	1252.8	979.6	737.3	757.9	752.7	763.0
46035.2	55°	33470.7	14368.9	2593.3	1072.4	1093.0	855.8	690.9	732.1	732.1	732.1
49365.7	57.5°	35419.6	13425.4	1840.6	871.3	907.4	701.2	649.6	706.3	701.2	696.0
53376.9	60°	36821.9	11899.3	1211.6	716.6	721.8	577.4	603.2	665.1	659.9	634.1
57511.7	62.5°	37868.6	10213.4	778.5	608.4	551.7	520.7	551.7	603.2	582.6	525.9
61017.6	65°	37750.0	7877.9	598.1	520.7	453.7	453.7	479.5	525.9	464.0	371.2
61687.8	67.5°	35548.5	5331.0	494.9	438.2	381.5	376.4	397.0	438.2	397.0	314.5
58254.2	70°	31614.7	3485.2	397.0	340.3	304.2	278.4	319.7	376.4	335.1	252.6
49592.6	72.5°	25659.9	2124.1	299.0	247.5	221.7	180.4	252.6	309.3	268.1	185.6
34486.4	75°	16601.3	1082.7	206.2	159.8	118.6	108.3	185.6	232.0	185.6	113.4
15302.1	77.5°	6351.8	453.7	113.4	72.2	61.9	51.6	103.1	139.2	77.3	25.8
2964.5	80°	1221.9	190.8	56.7	36.1	30.9	20.6	15.5	10.3	0.0	0.0
525.9	82.5°	211.4	61.9	20.6	10.3	0.0	0.0	0.0	0.0	0.0	0.0
103.1	85°	72.2	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36.1	87.5°	25.8	0.0	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>
9574.1
5810.5
3402.8
2768.6
2557.2
2361.3
2175.7
2005.6
1840.6
1680.8
1520.9
1392.0
1283.8
1201.3
1123.9
1062.1
979.6
912.6
866.2
819.8
788.8
763.0
732.1
696.0
634.1
515.6
360.9
304.2
242.3
175.3
98.0
20.6
0.0
0.0
0.0
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