

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: P944624

Luminaire Tested: **GALN-SB9C-930-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944624  
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-SB9C-930-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

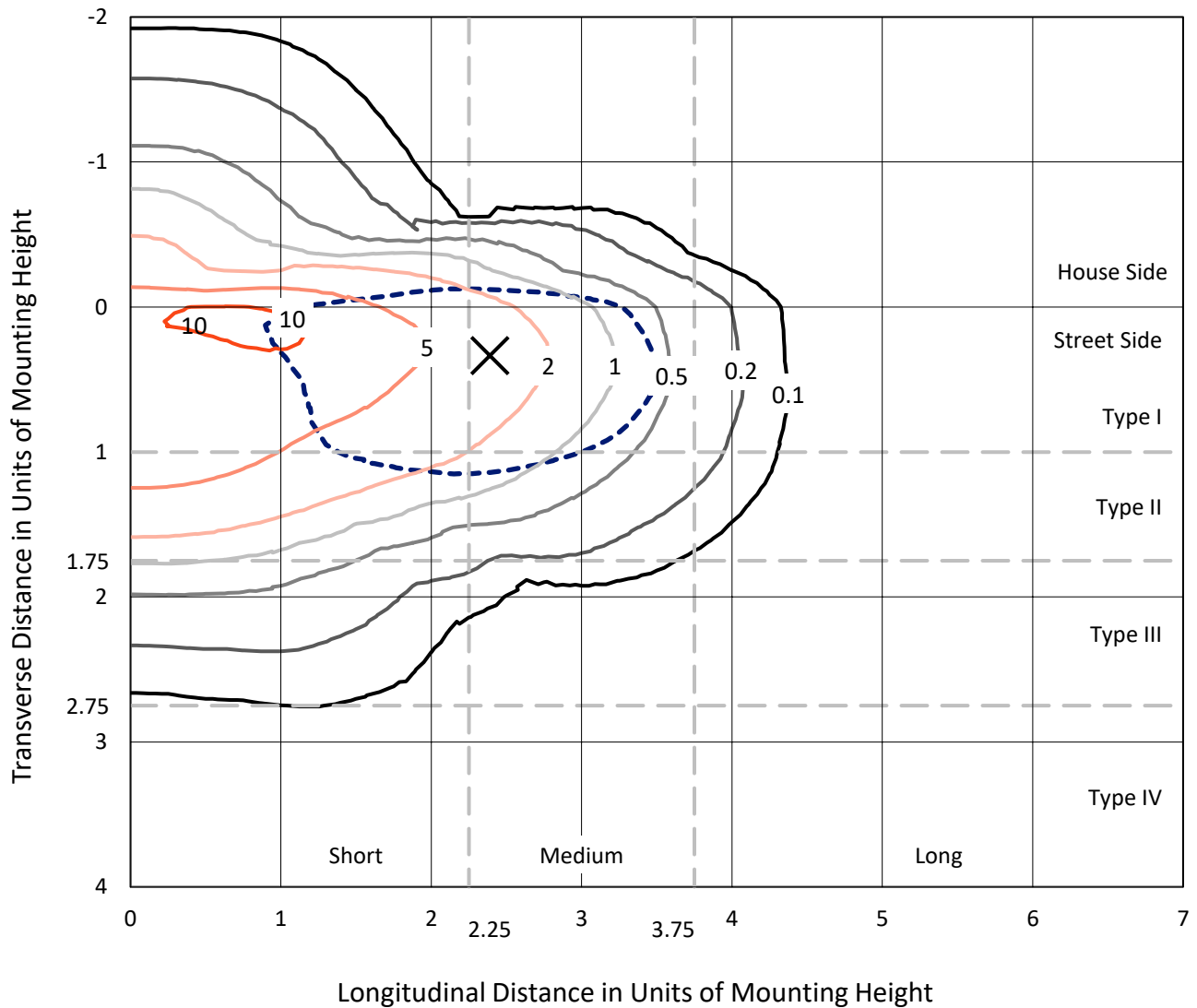
Lumens per Lamp: N/A  
Luminaire Lumens: 34651 lumens  
Efficiency: N/A  
Efficacy: 77.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

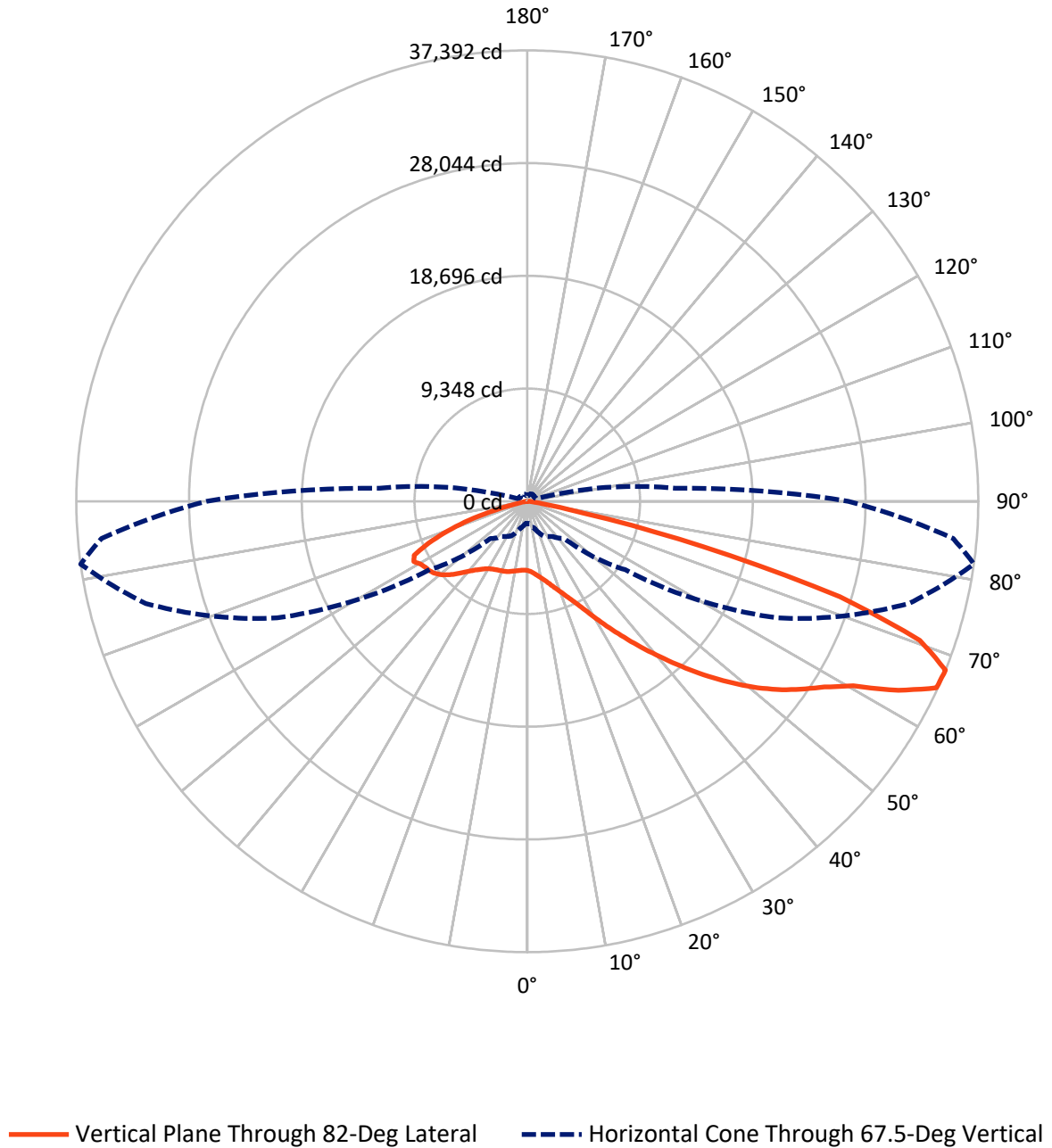
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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	6276.7	0.0	6276.7
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	28374.3	0.0	28374.3
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	34651.0	0.0	34651.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	511.4	1.5
10°-20°	1329.0	3.8
20°-30°	2128.7	6.1
30°-40°	3764.1	10.9
40°-50°	6595.1	19.0
50°-60°	8796.0	25.4
60°-70°	8188.6	23.6
70°-80°	3142.8	9.1
80°-90°	195.2	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°	34651.0	100.0
0°-180°	34651.0	100.0

**Coefficient of Utilization**



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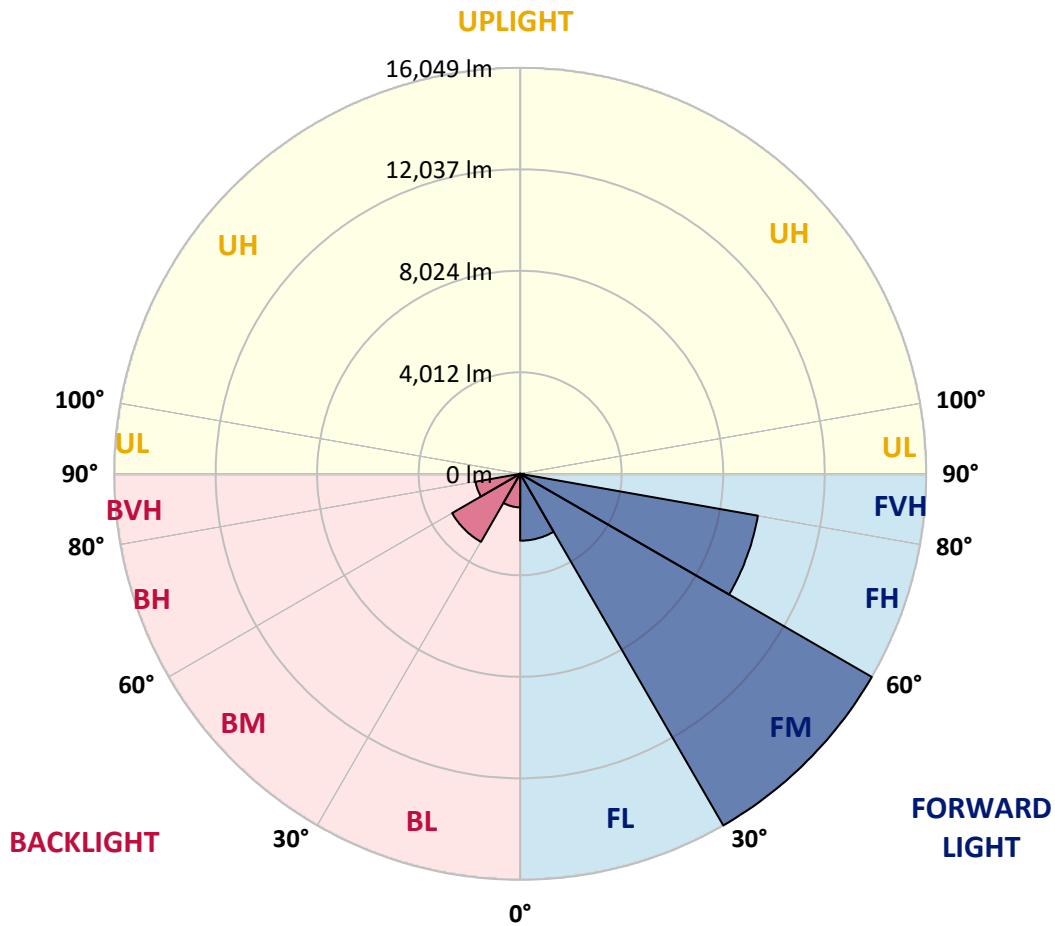
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2643.5	7.6			
FM (30°-60°)	16048.9	46.3			
FH (60°-80°)	9539.9	27.5			G4/12000
FVH (80°-90°)	141.9	0.4			G2/225
BL (0°-30°)	1325.6	3.8	B3/2500		
BM (30°-60°)	3106.3	9.0	B3/5000		
BH (60°-80°)	1791.5	5.2	B3/2500		G3/2500
BVH (80°-90°)	53.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5740.5	5740.5	5740.5	5740.5	5740.5	5740.5	5740.5	5740.5	5740.5	5740.5
2.5°	6067.3	6102.2	6082.3	6072.3	6054.8	6029.9	6009.9	5947.6	5882.7	5840.3
5°	6189.6	6224.5	6222.0	6232.0	6244.4	6251.9	6246.9	6177.1	6084.8	6012.4
7.5°	6084.8	6124.7	6157.1	6207.0	6294.3	6386.6	6431.6	6416.6	6321.8	6222.0
10°	5787.9	5830.3	5907.6	6024.9	6209.5	6409.1	6576.3	6653.6	6593.7	6483.9
12.5°	5244.0	5286.4	5438.6	5693.1	6002.5	6349.2	6668.6	6875.6	6890.6	6780.8
15°	4632.8	4675.2	4837.4	5156.7	5628.2	6184.6	6718.5	7110.1	7242.4	7147.6
17.5°	4253.6	4291.0	4413.3	4670.2	5161.7	5855.3	6701.0	7359.6	7661.5	7586.6
20°	4138.8	4171.3	4228.7	4408.3	4817.4	5513.5	6586.2	7594.1	8113.0	8070.6
22.5°	4261.1	4291.0	4308.5	4388.3	4645.3	5288.9	6441.5	7833.6	8636.9	8641.9
25°	4543.0	4572.9	4553.0	4602.9	4715.1	5219.1	6386.6	8115.5	9295.6	9350.5
27.5°	5007.0	5009.5	4962.1	4959.6	4977.1	5323.9	6444.0	8417.4	10126.3	10228.6
30°	5937.6	5900.2	5718.0	5521.0	5431.1	5638.2	6603.7	8774.2	11106.8	11288.9
32.5°	7372.1	7317.2	6982.9	6511.4	6037.4	6144.7	6890.6	9180.8	12174.5	12503.9
35°	8928.8	8913.9	8564.6	7863.6	7035.3	6865.6	7357.1	9714.7	13339.6	13863.5
37.5°	10375.8	10368.3	10168.7	9343.0	8335.1	7871.0	8105.6	10413.2	14587.0	15345.4
40°	11698.0	11720.5	11520.9	10782.5	9767.1	9160.8	9123.4	11276.4	15974.1	16959.5
42.5°	12840.7	12865.6	12663.5	12117.2	11181.6	10587.9	10373.3	12334.2	17328.8	18693.4
45°	13616.5	13771.2	13741.3	13304.7	12633.6	12017.4	11875.2	13661.4	18873.0	20532.1
47.5°	13836.1	13978.3	14202.8	14262.7	13853.5	13247.3	13416.9	15260.6	20434.8	22373.2
50°	13294.7	13426.9	13893.5	14514.7	14799.1	14612.0	14916.3	16974.5	22033.9	24209.4
52.5°	12226.9	12361.7	12950.4	13933.4	15093.4	15682.2	16420.7	18663.5	23583.2	25948.2
55°	10682.7	10824.9	11580.8	12693.5	14532.1	16123.8	17675.5	20350.0	25002.7	27512.5
57.5°	8582.1	8686.8	9472.7	11029.4	13120.1	15684.7	18601.1	22191.1	26339.9	29049.3
60°	5593.3	5685.6	6598.7	8335.1	10780.0	14217.8	18785.7	24244.3	28116.2	31047.6
62.5°	3719.7	3782.1	4323.5	5598.3	7591.6	11401.2	17705.5	25883.4	30720.8	34525.3
65°	2552.2	2614.5	3155.9	4044.0	4904.7	7541.7	14599.5	25666.3	33080.8	37287.0
67.5°	1821.2	1873.6	2332.6	3170.9	3550.1	4380.8	9896.8	22892.1	32741.5	37391.8
70°	1304.8	1334.7	1713.9	2469.8	2821.6	2632.0	5503.5	17508.4	28667.6	34527.8
72.5°	913.1	923.1	1190.0	1881.1	2272.7	1921.0	2619.5	11673.1	21682.2	27100.8
75°	618.7	631.2	800.8	1379.6	1823.7	1466.9	1387.1	6259.4	12728.4	15001.1
77.5°	379.2	384.2	516.4	943.0	1364.6	1117.7	893.1	2652.0	4924.7	4834.9
80°	214.6	214.6	329.3	586.3	930.6	721.0	626.2	1127.6	1559.2	1369.6
82.5°	119.7	122.2	239.5	364.2	616.2	426.6	344.3	521.4	673.6	596.3
85°	49.9	54.9	147.2	172.1	294.4	212.1	139.7	219.5	249.5	222.0
87.5°	5.0	7.5	44.9	32.4	34.9	42.4	20.0	42.4	34.9	34.9
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°
5740.5	0°	5740.5	5740.5	5740.5	5740.5	5740.5	5740.5	5740.5	5740.5	5740.5	5740.5
5825.3	2.5°	5777.9	5740.5	5645.7	5535.9	5391.2	5321.4	5226.6	5161.7	5106.8	5111.8
5970.0	5°	5890.2	5795.4	5583.3	5318.9	4989.6	4755.1	4505.6	4333.4	4193.7	4163.8
6169.6	7.5°	6044.9	5895.2	5523.5	5046.9	4490.6	4069.0	3692.3	3450.3	3278.1	3223.3
6411.6	10°	6244.4	6027.4	5446.1	4705.2	3904.3	3368.0	2963.8	2774.2	2656.9	2617.0
6696.0	12.5°	6476.5	6179.6	5343.8	4288.5	3300.6	2784.2	2527.2	2432.4	2395.0	2382.5
7045.3	15°	6768.3	6369.2	5189.2	3794.6	2789.2	2427.4	2317.7	2305.2	2310.2	2305.2
7464.4	17.5°	7115.1	6576.3	4937.2	3285.6	2444.9	2245.3	2205.4	2215.4	2227.8	2225.3
7933.4	20°	7494.3	6780.8	4615.4	2834.1	2210.4	2115.6	2093.1	2103.1	2113.1	2108.1
8474.8	22.5°	7925.9	7000.4	4258.6	2482.3	2053.2	1995.8	1970.9	1973.4	1973.4	1963.4
9160.8	25°	8442.3	7242.4	3884.4	2232.8	1933.5	1888.6	1858.6	1848.6	1833.7	1803.7
9994.1	27.5°	9058.6	7499.3	3525.1	2058.2	1838.7	1796.2	1761.3	1736.4	1698.9	1649.1
10994.5	30°	9752.1	7811.2	3220.8	1948.4	1763.8	1721.4	1681.5	1644.1	1589.2	1526.8
12144.6	32.5°	10567.9	8145.5	2998.7	1876.1	1696.5	1651.5	1604.1	1559.2	1499.4	1437.0
13436.9	35°	11540.9	8549.6	2869.0	1826.2	1644.1	1584.2	1531.8	1481.9	1437.0	1382.1
14841.5	37.5°	12596.2	8978.7	2829.1	1801.2	1609.1	1516.8	1457.0	1422.0	1417.0	1384.6
16360.8	40°	13751.2	9487.7	2859.0	1786.3	1571.7	1452.0	1387.1	1379.6	1392.1	1334.7
17984.9	42.5°	14973.7	10091.4	2908.9	1768.8	1519.3	1387.1	1324.7	1324.7	1314.8	1234.9
19701.3	45°	16295.9	10787.4	2958.8	1726.4	1457.0	1322.2	1274.8	1257.4	1215.0	1137.6
21427.7	47.5°	17628.1	11496.0	2996.2	1649.1	1382.1	1267.4	1224.9	1185.0	1122.7	1052.8
23121.7	50°	18893.0	12132.1	2956.3	1534.3	1297.3	1215.0	1170.1	1115.2	1047.8	1000.4
24725.8	52.5°	20023.1	12683.5	2786.7	1399.6	1207.5	1160.1	1120.2	1062.8	1007.9	958.0
26172.8	55°	21006.1	13130.0	2487.3	1272.3	1127.6	1112.7	1072.8	1000.4	925.6	883.2
27607.3	57.5°	21949.1	13469.3	2113.1	1167.6	1055.3	1060.3	1000.4	935.5	865.7	820.8
29540.7	60°	23204.0	13923.4	1733.9	1070.3	978.0	992.9	928.1	880.7	793.3	736.0
32856.3	62.5°	25209.8	14629.4	1377.1	950.5	888.1	893.1	865.7	808.3	703.5	636.2
35313.7	65°	26801.5	14370.0	1085.2	820.8	785.9	793.3	793.3	731.0	618.7	541.4
35445.9	67.5°	26621.8	12304.3	865.7	693.5	688.6	693.5	711.0	658.6	548.9	486.5
32746.5	70°	24523.7	9787.0	693.5	576.3	598.7	586.3	636.2	601.2	494.0	431.6
25386.9	72.5°	20010.7	7050.3	528.9	476.5	459.0	479.0	573.8	541.4	411.6	341.8
13446.9	75°	11693.1	3762.1	394.2	376.7	331.8	399.2	508.9	461.5	314.3	252.0
4121.4	77.5°	3807.0	1312.3	289.4	276.9	247.0	321.8	434.1	389.2	257.0	199.6
1207.5	80°	1020.4	396.7	197.1	182.1	159.7	239.5	344.3	309.4	184.6	129.7
518.9	82.5°	409.1	167.2	114.8	102.3	87.3	164.7	271.9	249.5	137.2	82.3
162.2	85°	132.2	54.9	42.4	32.4	39.9	102.3	162.2	169.6	97.3	42.4
24.9	87.5°	17.5	7.5	7.5	10.0	7.5	17.5	49.9	47.4	27.4	5.0
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>
5740.5
5061.9
4096.4
3168.4
2587.1
2375.0
2302.7
2220.4
2105.6
1958.4
1798.7
1644.1
1521.8
1439.5
1377.1
1382.1
1337.2
1234.9
1135.1
1050.3
992.9
953.0
878.2
815.8
728.5
631.2
533.9
476.5
424.1
334.3
244.5
192.1
127.2
82.3
32.4
0.0
0.0

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