

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: P944644

Luminaire Tested: **GALN-SB9C-940-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944644
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-940-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 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: 36095 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

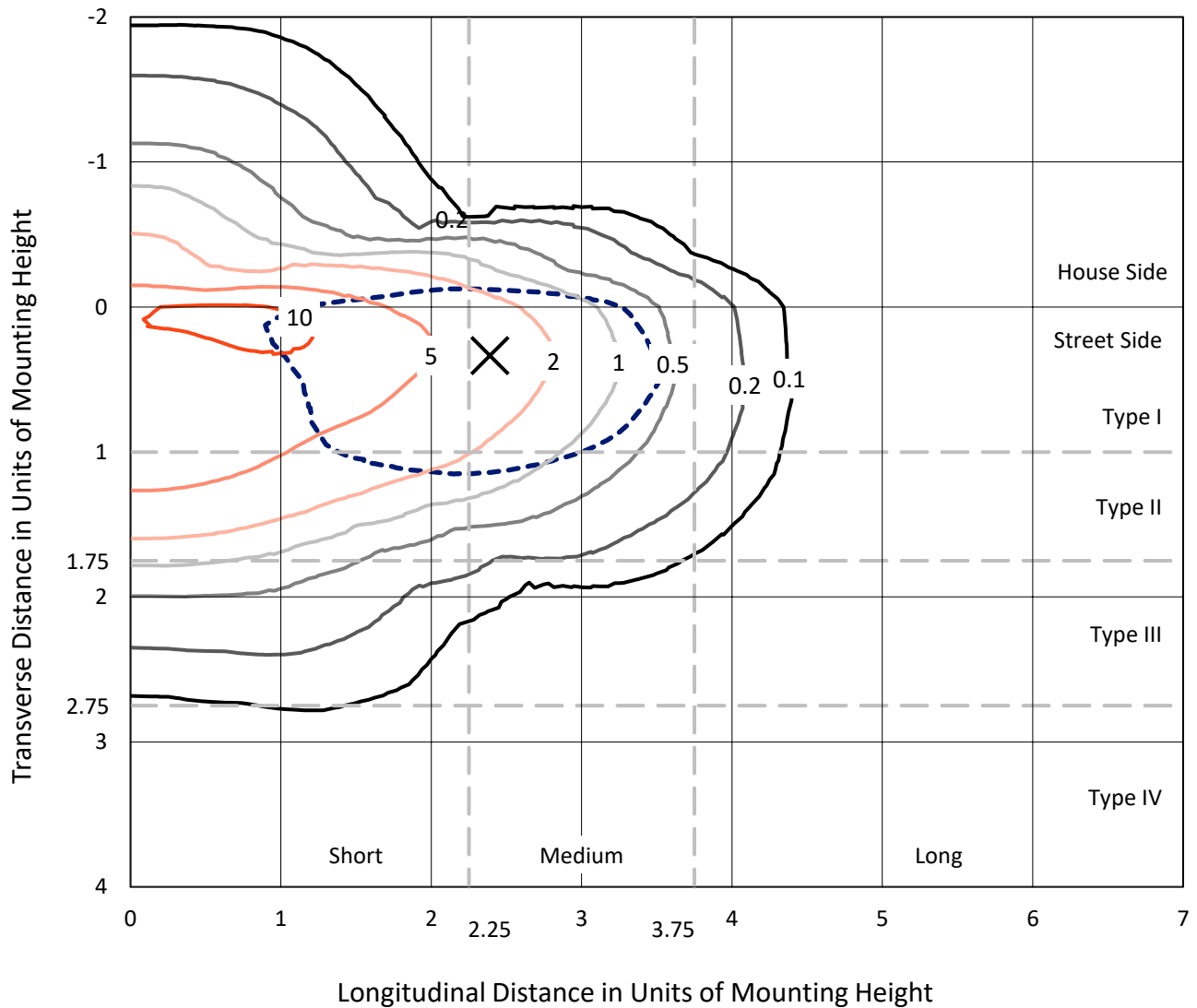
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

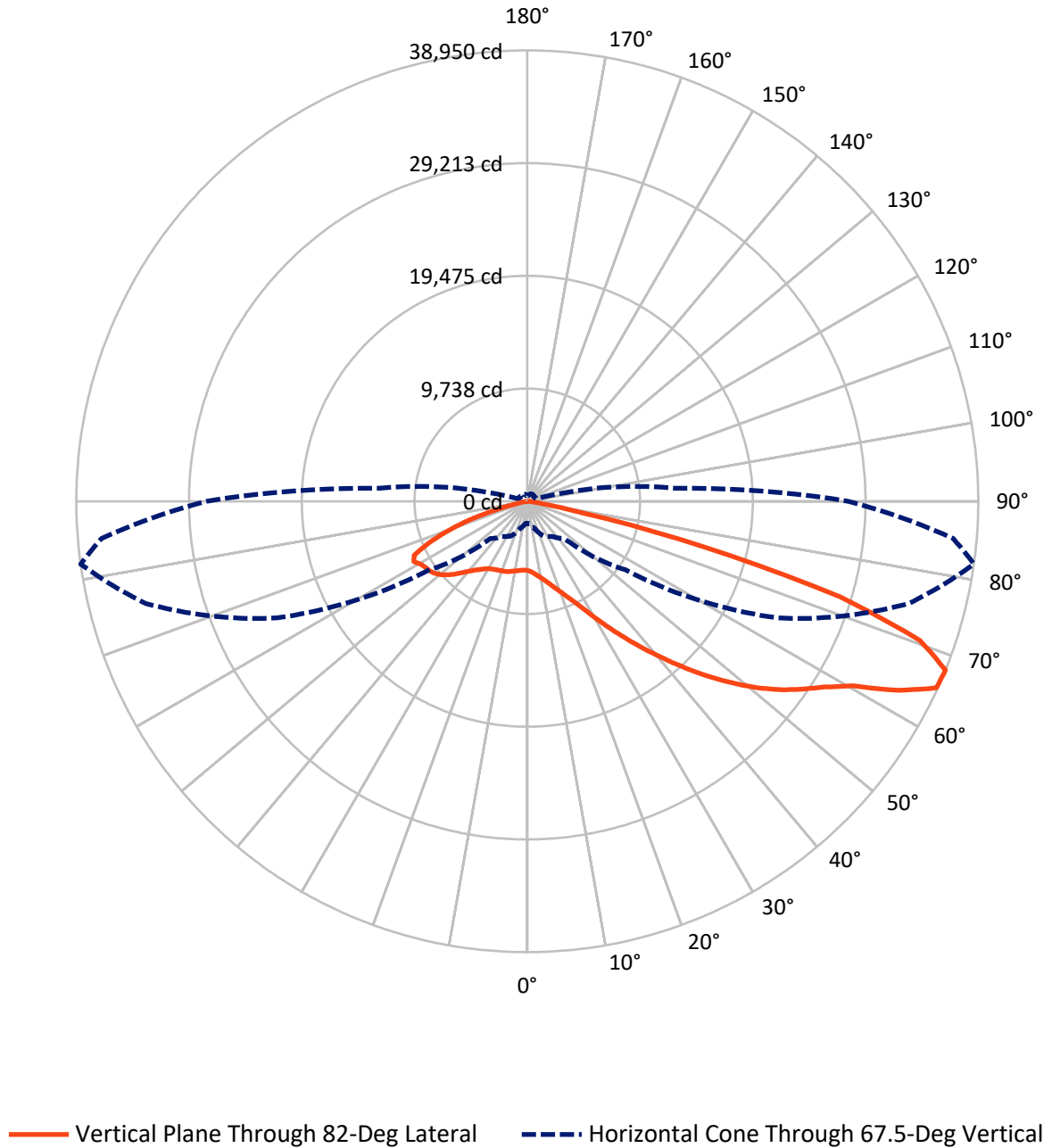
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6538.3	0.0	6538.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	29556.7	0.0	29556.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	36095.0	0.0	36095.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.7	1.5
10°-20°	1384.4	3.8
20°-30°	2217.4	6.1
30°-40°	3921.0	10.9
40°-50°	6869.9	19.0
50°-60°	9162.6	25.4
60°-70°	8529.9	23.6
70°-80°	3273.8	9.1
80°-90°	203.3	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°	36095.0	100.0
0°-180°	36095.0	100.0



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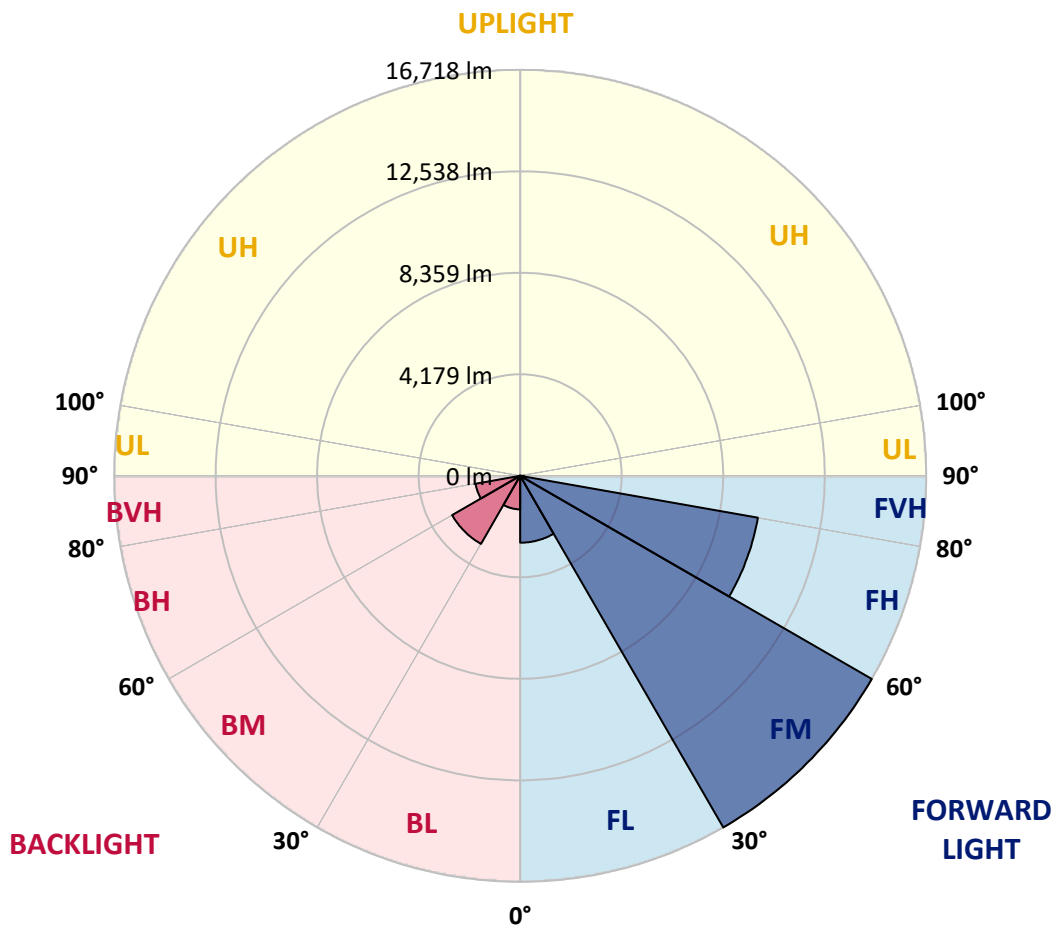
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2753.6	7.6			
FM (30°-60°)	16717.7	46.3			
FH (60°-80°)	9937.5	27.5			G4/12000
FVH (80°-90°)	147.8	0.4			G2/225
BL (0°-30°)	1380.9	3.8	B3/2500		
BM (30°-60°)	3235.8	9.0	B3/5000		
BH (60°-80°)	1866.2	5.2	B3/2500		G3/2500
BVH (80°-90°)	55.5	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°	5979.7	5979.7	5979.7	5979.7	5979.7	5979.7	5979.7	5979.7	5979.7	5979.7
2.5°	6320.2	6356.5	6335.7	6325.4	6307.2	6281.2	6260.4	6195.4	6127.8	6083.7
5°	6447.5	6483.9	6481.3	6491.7	6504.7	6512.5	6507.3	6434.5	6338.3	6263.0
7.5°	6338.3	6379.9	6413.7	6465.7	6556.6	6652.8	6699.6	6684.0	6585.2	6481.3
10°	6029.1	6073.3	6153.8	6276.0	6468.3	6676.2	6850.3	6930.9	6868.5	6754.1
12.5°	5462.6	5506.7	5665.3	5930.3	6252.6	6613.8	6946.5	7162.2	7177.7	7063.4
15°	4825.9	4870.1	5039.0	5371.6	5862.8	6442.3	6998.4	7406.4	7544.2	7445.4
17.5°	4430.9	4469.8	4597.2	4864.9	5376.8	6099.3	6980.2	7666.3	7980.8	7902.8
20°	4311.3	4345.1	4404.9	4592.0	5018.2	5743.2	6860.7	7910.6	8451.1	8407.0
22.5°	4438.7	4469.8	4488.0	4571.2	4838.9	5509.3	6710.0	8160.1	8996.9	9002.1
25°	4732.3	4763.5	4742.7	4794.7	4911.6	5436.6	6652.8	8453.7	9682.9	9740.1
27.5°	5215.7	5218.3	5168.9	5166.3	5184.5	5545.7	6712.6	8768.2	10548.3	10654.9
30°	6185.0	6146.0	5956.3	5751.0	5657.5	5873.2	6878.9	9139.8	11569.6	11759.3
32.5°	7679.3	7622.1	7273.9	6782.7	6289.0	6400.7	7177.7	9563.4	12681.9	13024.9
35°	9300.9	9285.3	8921.5	8191.3	7328.5	7151.8	7663.7	10119.5	13895.5	14441.2
37.5°	10808.2	10800.4	10592.5	9732.3	8682.4	8199.1	8443.3	10847.2	15194.9	15984.9
40°	12185.5	12208.9	12001.0	11231.8	10174.1	9542.6	9503.6	11746.3	16639.8	17666.3
42.5°	13375.8	13401.7	13191.2	12622.1	11647.6	11029.1	10805.6	12848.2	18050.9	19472.4
45°	14184.0	14345.1	14313.9	13859.1	13160.1	12518.2	12370.0	14230.7	19659.5	21387.7
47.5°	14412.7	14560.8	14794.7	14857.0	14430.8	13799.4	13976.1	15896.5	21286.3	23305.6
50°	13848.7	13986.5	14472.4	15119.5	15415.8	15220.9	15537.9	17681.9	22952.1	25218.3
52.5°	12736.5	12876.8	13490.1	14514.0	15722.4	16335.7	17105.0	19441.2	24566.0	27029.6
55°	11127.8	11276.0	12063.4	13222.4	15137.7	16795.7	18412.1	21198.0	26044.7	28659.0
57.5°	8939.7	9048.8	9867.4	11489.1	13666.8	16338.3	19376.3	23115.9	27437.6	30259.8
60°	5826.4	5922.5	6873.7	8682.4	11229.2	14810.3	19568.6	25254.6	29287.9	32341.4
62.5°	3874.7	3939.7	4503.6	5831.6	7908.0	11876.3	18443.3	26962.0	32001.0	35964.1
65°	2658.5	2723.5	3287.4	4212.6	5109.1	7856.0	15207.9	26735.9	34459.4	38840.9
67.5°	1897.1	1951.7	2429.8	3303.0	3698.0	4563.4	10309.2	23846.1	34106.0	38950.0
70°	1359.1	1390.3	1785.3	2572.8	2939.2	2741.7	5732.8	18238.0	29862.2	35966.7
72.5°	951.1	961.5	1239.6	1959.5	2367.5	2001.0	2728.7	12159.5	22585.7	28230.2
75°	644.5	657.5	834.2	1437.1	1899.7	1528.1	1444.9	6520.3	13258.8	15626.3
77.5°	395.0	400.2	537.9	982.3	1421.5	1164.2	930.4	2762.5	5129.9	5036.4
80°	223.5	223.5	343.0	610.7	969.3	751.0	652.3	1174.6	1624.2	1426.7
82.5°	124.7	127.3	249.5	379.4	641.9	444.4	358.6	543.1	701.7	621.1
85°	52.0	57.2	153.3	179.3	306.7	220.9	145.5	228.7	259.9	231.3
87.5°	5.2	7.8	46.8	33.8	36.4	44.2	20.8	44.2	36.4	36.4
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°
5979.7	0°	5979.7	5979.7	5979.7	5979.7	5979.7	5979.7	5979.7	5979.7	5979.7	5979.7
6068.1	2.5°	6018.7	5979.7	5881.0	5766.6	5615.9	5543.1	5444.4	5376.8	5319.6	5324.8
6218.8	5°	6135.6	6036.9	5816.0	5540.5	5197.5	4953.2	4693.3	4514.0	4368.5	4337.3
6426.7	7.5°	6296.8	6140.8	5753.6	5257.3	4677.7	4238.6	3846.1	3594.1	3414.8	3357.6
6678.8	10°	6504.7	6278.6	5673.1	4901.2	4067.0	3508.3	3087.3	2889.8	2767.7	2726.1
6975.0	12.5°	6746.4	6437.1	5566.5	4467.2	3438.1	2900.2	2632.5	2533.8	2494.8	2481.8
7338.9	15°	7050.4	6634.6	5405.4	3952.7	2905.4	2528.6	2414.2	2401.2	2406.4	2401.2
7775.5	17.5°	7411.6	6850.3	5142.9	3422.6	2546.8	2338.9	2297.3	2307.7	2320.7	2318.1
8264.0	20°	7806.6	7063.4	4807.7	2952.2	2302.5	2203.7	2180.3	2190.7	2201.1	2195.9
8827.9	22.5°	8256.2	7292.1	4436.1	2585.8	2138.8	2079.0	2053.0	2055.6	2055.6	2045.2
9542.6	25°	8794.2	7544.2	4046.3	2325.9	2014.0	1967.3	1936.1	1925.7	1910.1	1878.9
10410.6	27.5°	9436.1	7811.8	3672.0	2144.0	1915.3	1871.1	1834.7	1808.7	1769.7	1717.8
11452.7	30°	10158.5	8136.7	3355.0	2029.6	1837.3	1793.1	1751.6	1712.6	1655.4	1590.4
12650.7	32.5°	11008.3	8484.9	3123.7	1954.3	1767.1	1720.4	1671.0	1624.2	1561.8	1496.9
13996.9	35°	12021.8	8905.9	2988.6	1902.3	1712.6	1650.2	1595.6	1543.7	1496.9	1439.7
15460.0	37.5°	13121.1	9352.9	2947.0	1876.3	1676.2	1580.0	1517.7	1481.3	1476.1	1442.3
17042.6	40°	14324.3	9883.0	2978.2	1860.7	1637.2	1512.5	1444.9	1437.1	1450.1	1390.3
18734.4	42.5°	15597.7	10511.9	3030.1	1842.5	1582.6	1444.9	1379.9	1379.9	1369.5	1286.4
20522.3	45°	16975.0	11237.0	3082.1	1798.3	1517.7	1377.3	1328.0	1309.8	1265.6	1185.0
22320.6	47.5°	18362.8	11975.0	3121.1	1717.8	1439.7	1320.2	1276.0	1234.4	1169.4	1096.7
24085.2	50°	19680.3	12637.7	3079.5	1598.2	1351.3	1265.6	1218.8	1161.6	1091.5	1042.1
25756.2	52.5°	20857.6	13212.0	2902.8	1457.9	1257.8	1208.4	1166.8	1107.1	1049.9	997.9
27263.5	55°	21881.5	13677.2	2591.0	1325.4	1174.6	1159.0	1117.5	1042.1	964.1	920.0
28757.7	57.5°	22863.8	14030.6	2201.1	1216.2	1099.3	1104.5	1042.1	974.5	901.8	855.0
30771.8	60°	24171.0	14503.6	1806.1	1114.9	1018.7	1034.3	966.7	917.4	826.4	766.6
34225.5	62.5°	26260.4	15239.1	1434.5	990.1	925.2	930.4	901.8	842.0	732.8	662.7
36785.3	65°	27918.4	14968.8	1130.5	855.0	818.6	826.4	826.4	761.4	644.5	563.9
36923.0	67.5°	27731.2	12817.0	901.8	722.5	717.3	722.5	740.6	686.1	571.7	506.8
34111.2	70°	25545.7	10194.9	722.5	600.3	623.7	610.7	662.7	626.3	514.6	449.6
26444.9	72.5°	20844.6	7344.1	550.9	496.4	478.2	499.0	597.7	563.9	428.8	356.0
14007.3	75°	12180.3	3918.9	410.6	392.4	345.6	415.8	530.1	480.8	327.4	262.5
4293.1	77.5°	3965.7	1366.9	301.5	288.5	257.3	335.2	452.2	405.4	267.7	207.9
1257.8	80°	1062.9	413.2	205.3	189.7	166.3	249.5	358.6	322.2	192.3	135.1
540.5	82.5°	426.2	174.1	119.5	106.5	91.0	171.5	283.3	259.9	142.9	85.8
168.9	85°	137.7	57.2	44.2	33.8	41.6	106.5	168.9	176.7	101.4	44.2
26.0	87.5°	18.2	7.8	7.8	10.4	7.8	18.2	52.0	49.4	28.6	5.2
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>
5979.7
5272.9
4267.1
3300.4
2694.9
2474.0
2398.6
2312.9
2193.3
2040.0
1873.7
1712.6
1585.2
1499.5
1434.5
1439.7
1392.9
1286.4
1182.4
1094.1
1034.3
992.7
914.8
849.8
758.8
657.5
556.1
496.4
441.8
348.2
254.7
200.1
132.5
85.8
33.8
0.0
0.0

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