

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: P944394

Luminaire Tested: **GALN-SB9B-827-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944394
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-SB9B-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 450mA 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: 32568 lumens
Efficiency: N/A
Efficacy: 98.8 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

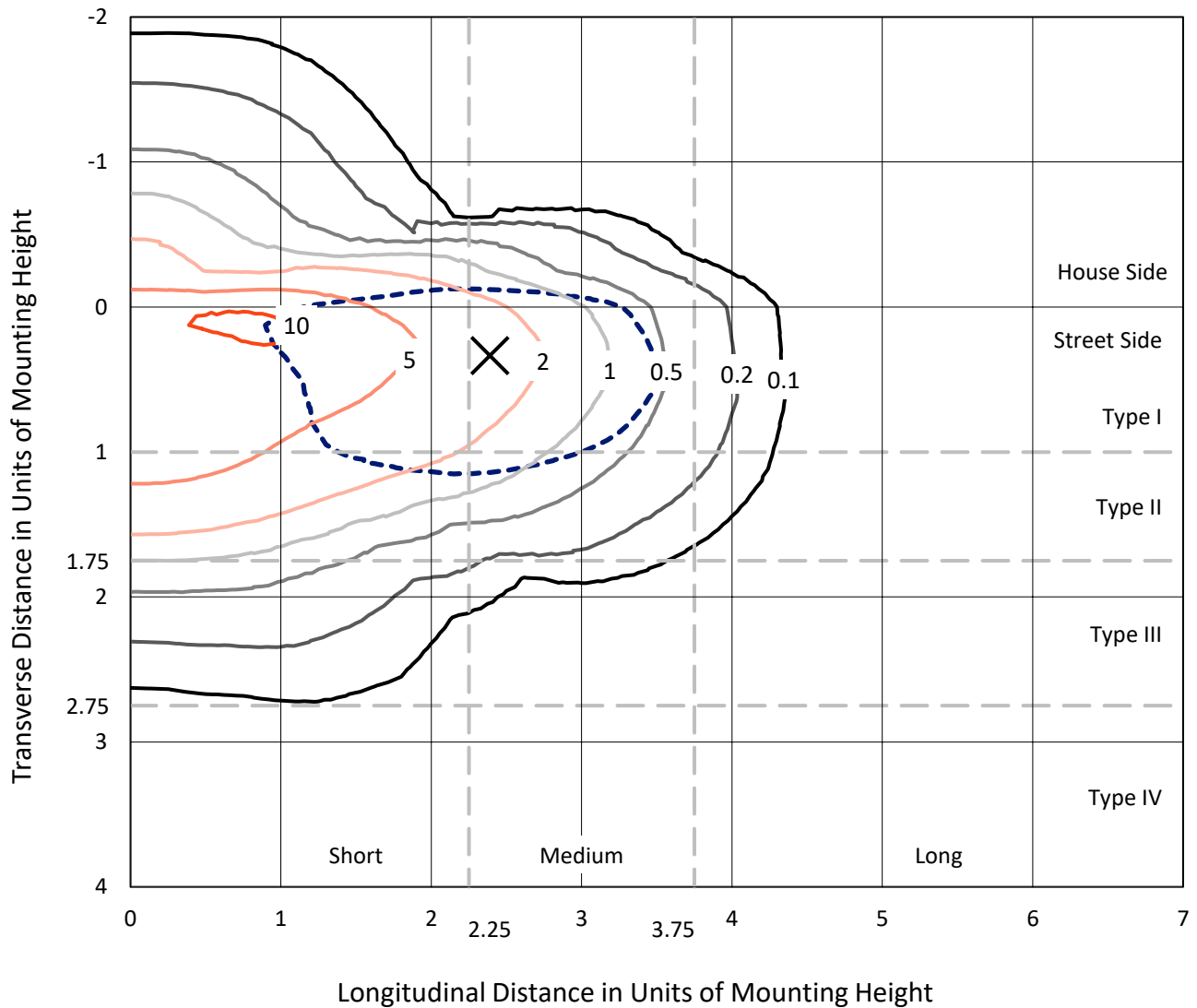
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

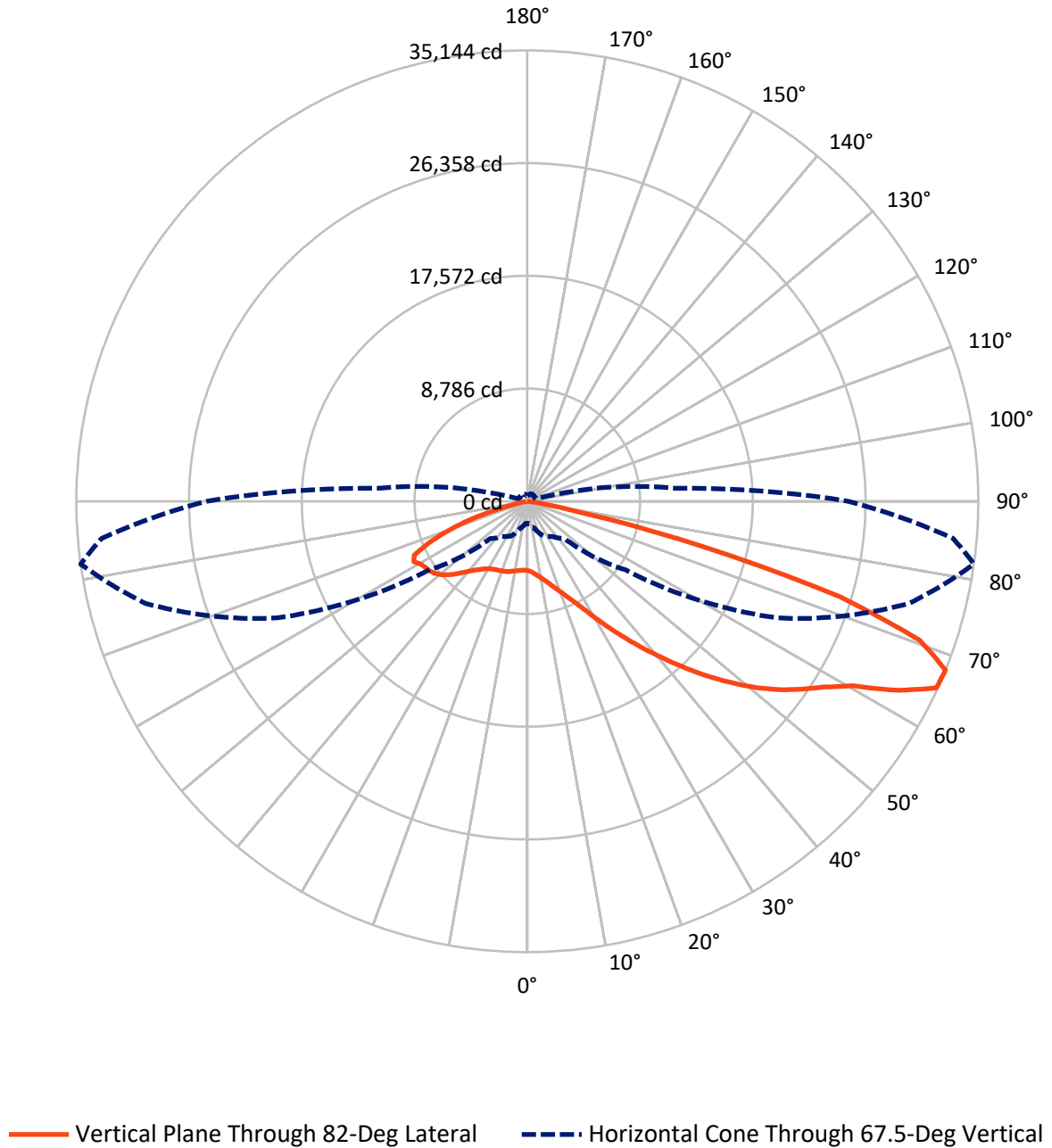
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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	5899.4	0.0	5899.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	26668.6	0.0	26668.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	32568.0	0.0	32568.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.7	1.5
10°-20°	1249.1	3.8
20°-30°	2000.7	6.1
30°-40°	3537.8	10.9
40°-50°	6198.7	19.0
50°-60°	8267.3	25.4
60°-70°	7696.4	23.6
70°-80°	2953.9	9.1
80°-90°	183.5	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°	32568.0	100.0
0°-180°	32568.0	100.0

Coefficient of Utilization



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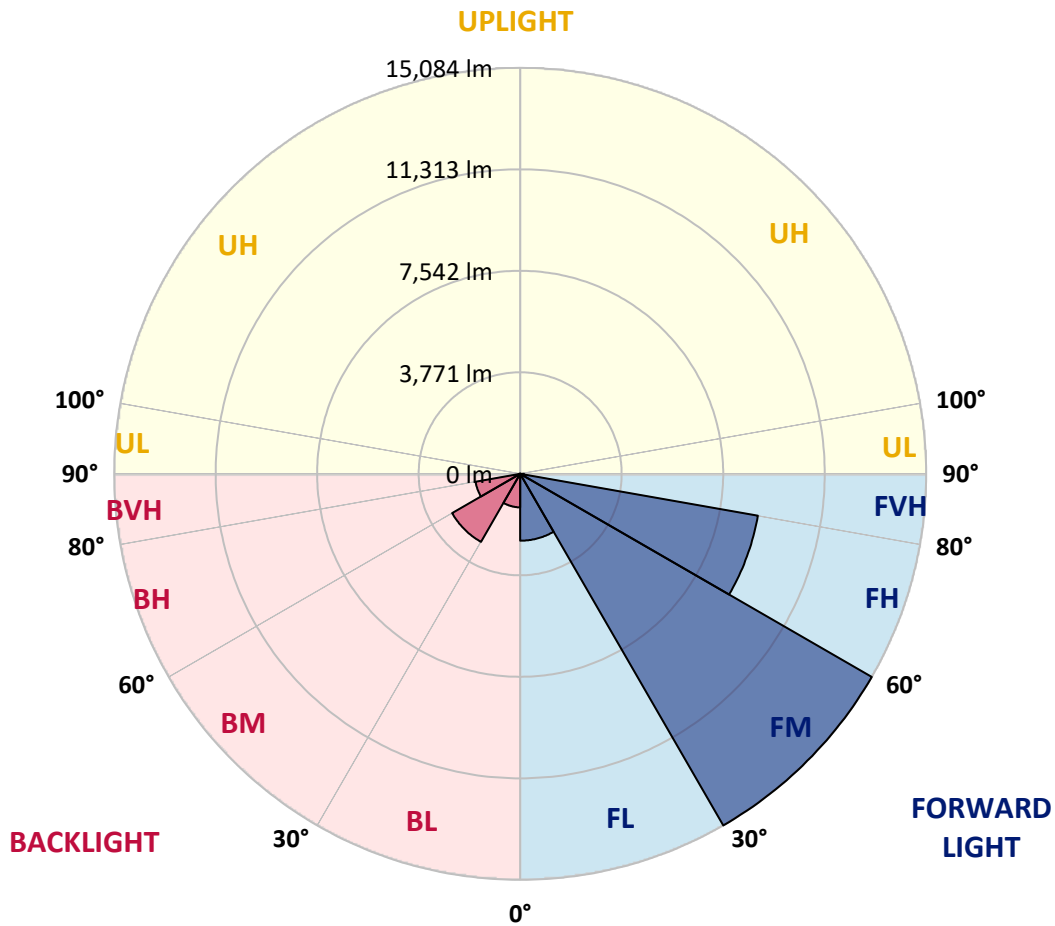
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2484.6	7.6			
FM (30°-60°)	15084.2	46.3			
FH (60°-80°)	8966.5	27.5			G4/12000
FVH (80°-90°)	133.4	0.4			G2/225
BL (0°-30°)	1245.9	3.8	B3/2500		
BM (30°-60°)	2919.6	9.0	B3/5000		
BH (60°-80°)	1683.8	5.2	B3/2500		G3/2500
BVH (80°-90°)	50.1	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°	5395.4	5395.4	5395.4	5395.4	5395.4	5395.4	5395.4	5395.4	5395.4	5395.4
2.5°	5702.6	5735.4	5716.7	5707.3	5690.9	5667.4	5648.7	5590.0	5529.1	5489.2
5°	5817.5	5850.3	5848.0	5857.3	5869.1	5876.1	5871.4	5805.8	5719.0	5651.0
7.5°	5719.0	5756.5	5787.0	5833.9	5916.0	6002.7	6044.9	6030.9	5941.8	5848.0
10°	5440.0	5479.8	5552.5	5662.7	5836.2	6023.8	6180.9	6253.6	6197.3	6094.2
12.5°	4928.8	4968.7	5111.7	5350.9	5641.6	5967.5	6267.7	6462.3	6476.4	6373.2
15°	4354.3	4394.2	4546.6	4846.7	5289.9	5812.8	6314.6	6682.7	6807.0	6717.9
17.5°	3997.9	4033.1	4148.0	4389.5	4851.4	5503.3	6298.2	6917.2	7200.9	7130.6
20°	3890.0	3920.5	3974.5	4143.3	4527.8	5182.0	6190.3	7137.6	7625.3	7585.5
22.5°	4004.9	4033.1	4049.5	4124.5	4366.0	4971.0	6054.3	7362.7	8117.7	8122.4
25°	4269.9	4298.0	4279.3	4326.2	4431.7	4905.3	6002.7	7627.7	8736.8	8788.4
27.5°	4706.0	4708.4	4663.8	4661.5	4677.9	5003.8	6056.7	7911.4	9517.6	9613.7
30°	5580.7	5545.5	5374.3	5189.1	5104.7	5299.3	6206.7	8246.7	10439.1	10610.3
32.5°	6928.9	6877.3	6563.1	6120.0	5674.4	5775.3	6476.4	8628.9	11442.7	11752.2
35°	8392.1	8378.0	8049.7	7390.9	6612.4	6452.9	6914.9	9130.7	12537.7	13030.1
37.5°	9752.1	9745.0	9557.5	8781.3	7834.0	7397.9	7618.3	9787.3	13710.1	14422.9
40°	10994.8	11015.9	10828.3	10134.3	9179.9	8610.2	8575.0	10598.6	15013.8	15940.0
42.5°	12068.8	12092.2	11902.3	11388.8	10509.5	9951.4	9749.7	11592.8	16287.1	17569.7
45°	12798.0	12943.4	12915.2	12504.9	11874.1	11295.0	11161.3	12840.2	17738.5	19297.8
47.5°	13004.3	13138.0	13349.0	13405.3	13020.7	12451.0	12610.4	14343.2	19206.4	21028.3
50°	12495.5	12619.8	13058.3	13642.1	13909.4	13733.6	14019.6	15954.1	20709.4	22754.1
52.5°	11491.9	11618.6	12171.9	13095.8	14186.1	14739.5	15433.6	17541.5	22165.5	24388.4
55°	10040.5	10174.1	10884.6	11930.4	13658.5	15154.5	16613.0	19126.6	23499.7	25858.6
57.5°	8066.2	8164.6	8903.3	10366.4	12331.4	14741.8	17482.9	20857.1	24756.5	27303.0
60°	5257.1	5343.8	6202.0	7834.0	10131.9	13363.1	17656.4	22786.9	26426.0	29181.2
62.5°	3496.1	3554.7	4063.6	5261.8	7135.3	10715.8	16641.1	24327.4	28874.0	32449.9
65°	2398.7	2457.4	2966.2	3800.9	4609.9	7088.4	13721.8	24123.4	31092.2	35045.6
67.5°	1711.7	1761.0	2192.4	2980.3	3336.7	4117.5	9301.9	21516.0	30773.3	35144.1
70°	1226.3	1254.5	1610.9	2321.4	2652.0	2473.8	5172.7	16455.9	26944.2	32452.2
72.5°	858.2	867.6	1118.5	1768.0	2136.1	1805.5	2462.1	10971.4	20378.8	25471.7
75°	581.5	593.2	752.7	1296.7	1714.1	1378.8	1303.7	5883.1	11963.2	14099.4
77.5°	356.4	361.1	485.4	886.3	1282.6	1050.5	839.4	2492.5	4628.7	4544.2
80°	201.7	201.7	309.5	551.0	874.6	677.7	588.5	1059.9	1465.5	1287.3
82.5°	112.6	114.9	225.1	342.3	579.2	401.0	323.6	490.1	633.1	560.4
85°	46.9	51.6	138.3	161.8	276.7	199.3	131.3	206.3	234.5	208.7
87.5°	4.7	7.0	42.2	30.5	32.8	39.9	18.8	39.9	32.8	32.8
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°
5395.4	0°	5395.4	5395.4	5395.4	5395.4	5395.4	5395.4	5395.4	5395.4	5395.4	5395.4
5475.1	2.5°	5430.6	5395.4	5306.3	5203.1	5067.1	5001.5	4912.4	4851.4	4799.8	4804.5
5611.1	5°	5536.1	5447.0	5247.7	4999.1	4689.6	4469.2	4234.7	4072.9	3941.6	3913.5
5798.7	7.5°	5681.5	5540.8	5191.4	4743.6	4220.7	3824.4	3470.3	3242.9	3081.1	3029.5
6026.2	10°	5869.1	5665.1	5118.7	4422.3	3669.6	3165.5	2785.6	2607.4	2497.2	2459.7
6293.5	12.5°	6087.1	5808.1	5022.6	4030.7	3102.2	2616.8	2375.3	2286.2	2251.0	2239.3
6621.8	15°	6361.5	5986.3	4877.2	3566.5	2621.5	2281.5	2178.3	2166.6	2171.3	2166.6
7015.7	17.5°	6687.4	6180.9	4640.4	3088.1	2297.9	2110.3	2072.8	2082.2	2093.9	2091.6
7456.5	20°	7043.8	6373.2	4337.9	2663.7	2077.5	1988.4	1967.3	1976.7	1986.1	1981.4
7965.3	22.5°	7449.5	6579.5	4002.6	2333.1	1929.8	1875.9	1852.4	1854.7	1854.7	1845.4
8610.2	25°	7934.8	6807.0	3650.9	2098.6	1817.2	1775.0	1746.9	1737.5	1723.4	1695.3
9393.3	27.5°	8514.0	7048.5	3313.2	1934.5	1728.1	1688.3	1655.4	1632.0	1596.8	1549.9
10333.6	30°	9165.9	7341.6	3027.2	1831.3	1657.8	1617.9	1580.4	1545.2	1493.6	1435.0
11414.6	32.5°	9932.6	7655.8	2818.5	1763.3	1594.5	1552.3	1507.7	1465.5	1409.2	1350.6
12629.2	35°	10847.1	8035.7	2696.5	1716.4	1545.2	1489.0	1439.7	1392.8	1350.6	1299.0
13949.3	37.5°	11839.0	8439.0	2659.0	1693.0	1512.4	1425.6	1369.4	1336.5	1331.9	1301.4
15377.3	40°	12924.6	8917.3	2687.2	1678.9	1477.2	1364.7	1303.7	1296.7	1308.4	1254.5
16903.8	42.5°	14073.6	9484.8	2734.1	1662.5	1428.0	1303.7	1245.1	1245.1	1235.7	1160.7
18517.0	45°	15316.3	10139.0	2780.9	1622.6	1369.4	1242.8	1198.2	1181.8	1141.9	1069.2
20139.6	47.5°	16568.5	10804.9	2816.1	1549.9	1299.0	1191.2	1151.3	1113.8	1055.2	989.5
21731.7	50°	17757.3	11402.8	2778.6	1442.1	1219.3	1141.9	1099.7	1048.1	984.8	940.3
23239.4	52.5°	18819.5	11921.0	2619.2	1315.4	1134.9	1090.3	1052.8	998.9	947.3	900.4
24599.4	55°	19743.3	12340.8	2337.8	1195.9	1059.9	1045.8	1008.3	940.3	869.9	830.1
25947.7	57.5°	20629.7	12659.6	1986.1	1097.4	991.9	996.5	940.3	879.3	813.7	771.4
27764.9	60°	21809.1	13086.4	1629.6	1005.9	919.2	933.2	872.3	827.7	745.7	691.7
30881.2	62.5°	23694.3	13750.0	1294.3	893.4	834.8	839.4	813.7	759.7	661.2	597.9
33190.8	65°	25190.3	13506.1	1020.0	771.4	738.6	745.7	745.7	687.0	581.5	508.8
33315.1	67.5°	25021.5	11564.6	813.7	651.9	647.2	651.9	668.3	619.0	515.9	457.2
30778.0	70°	23049.5	9198.7	651.9	541.7	562.8	551.0	597.9	565.1	464.3	405.7
23860.8	72.5°	18807.7	6626.4	497.1	447.9	431.4	450.2	539.3	508.8	386.9	321.2
12638.5	75°	10990.1	3536.0	370.5	354.1	311.9	375.2	478.3	433.8	295.4	236.8
3873.6	77.5°	3578.2	1233.4	272.0	260.3	232.1	302.5	408.0	365.8	241.5	187.6
1134.9	80°	959.0	372.8	185.2	171.2	150.1	225.1	323.6	290.8	173.5	121.9
487.7	82.5°	384.5	157.1	107.9	96.1	82.1	154.8	255.6	234.5	129.0	77.4
152.4	85°	124.3	51.6	39.9	30.5	37.5	96.1	152.4	159.4	91.4	39.9
23.4	87.5°	16.4	7.0	7.0	9.4	7.0	16.4	46.9	44.6	25.8	4.7
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>
5395.4
4757.6
3850.2
2977.9
2431.6
2232.3
2164.3
2086.9
1979.0
1840.7
1690.6
1545.2
1430.3
1353.0
1294.3
1299.0
1256.8
1160.7
1066.9
987.2
933.2
895.7
825.4
766.8
684.7
593.2
501.8
447.9
398.6
314.2
229.8
180.6
119.6
77.4
30.5
0.0
0.0

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