

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: P955512

Luminaire Tested: **GALN-SB8B-940-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955512
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-940-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33607 lumens
Efficiency: N/A
Efficacy: 114.8 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

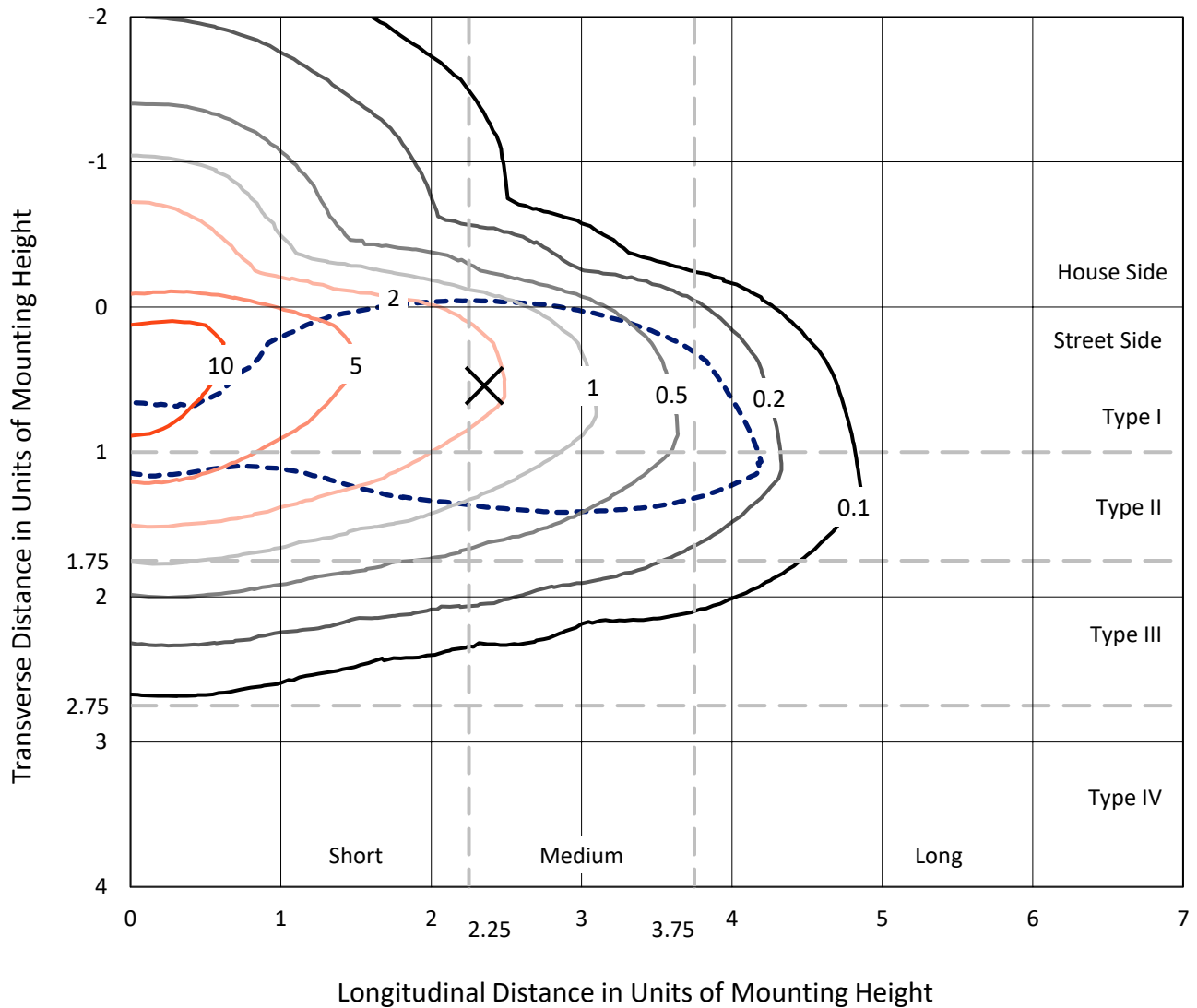
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

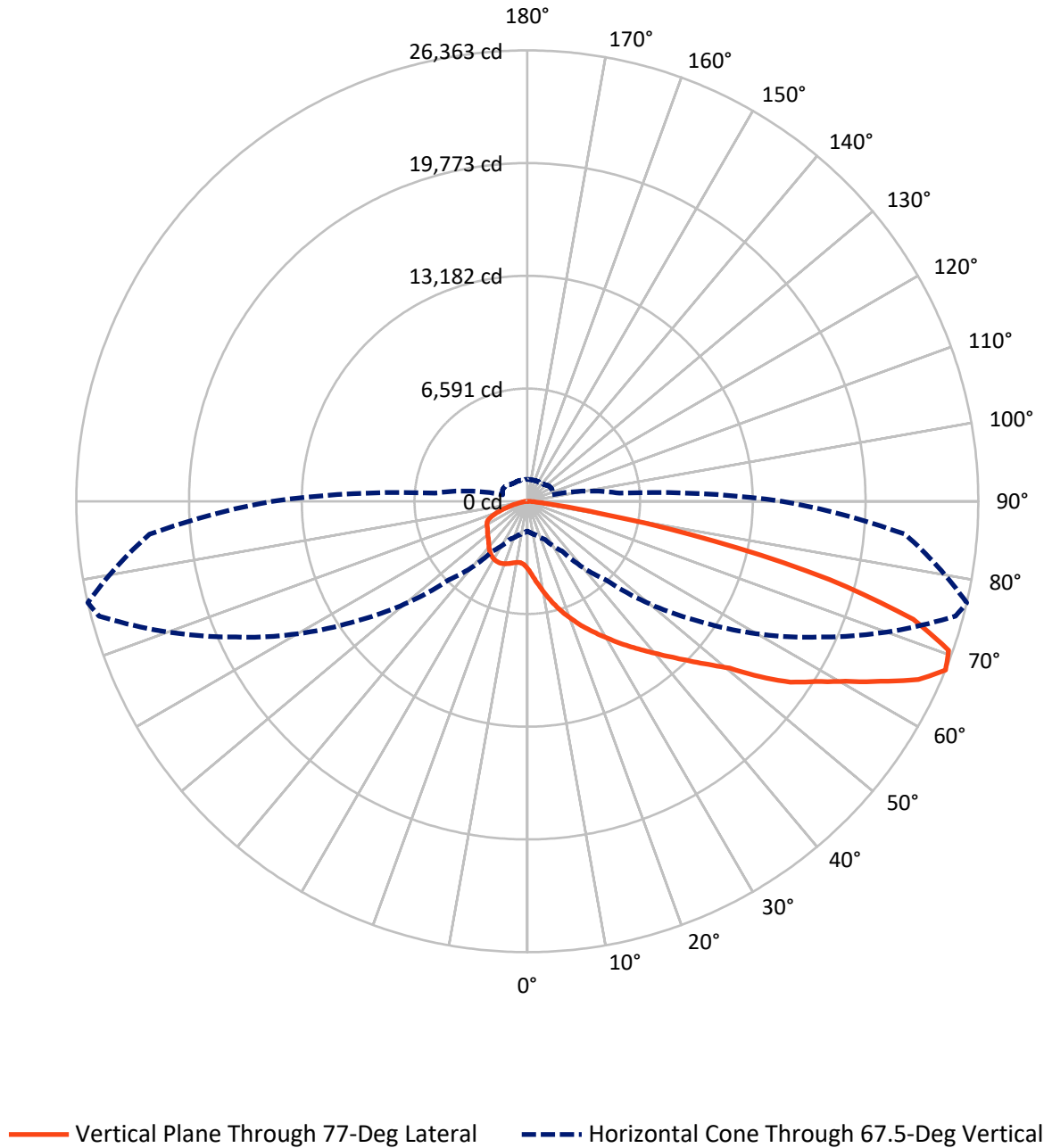
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 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	6357.1	0.0	6357.1
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	27249.9	0.0	27249.9
	% Fixture	81.1	0.0	81.1
Total	Lumens	33607.0	0.0	33607.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.7	1.3
10°-20°	1518.4	4.5
20°-30°	2866.9	8.5
30°-40°	4618.6	13.7
40°-50°	6317.4	18.8
50°-60°	7126.0	21.2
60°-70°	6651.3	19.8
70°-80°	3646.0	10.8
80°-90°	439.8	1.3
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°	33607.0	100.0
0°-180°	33607.0	100.0

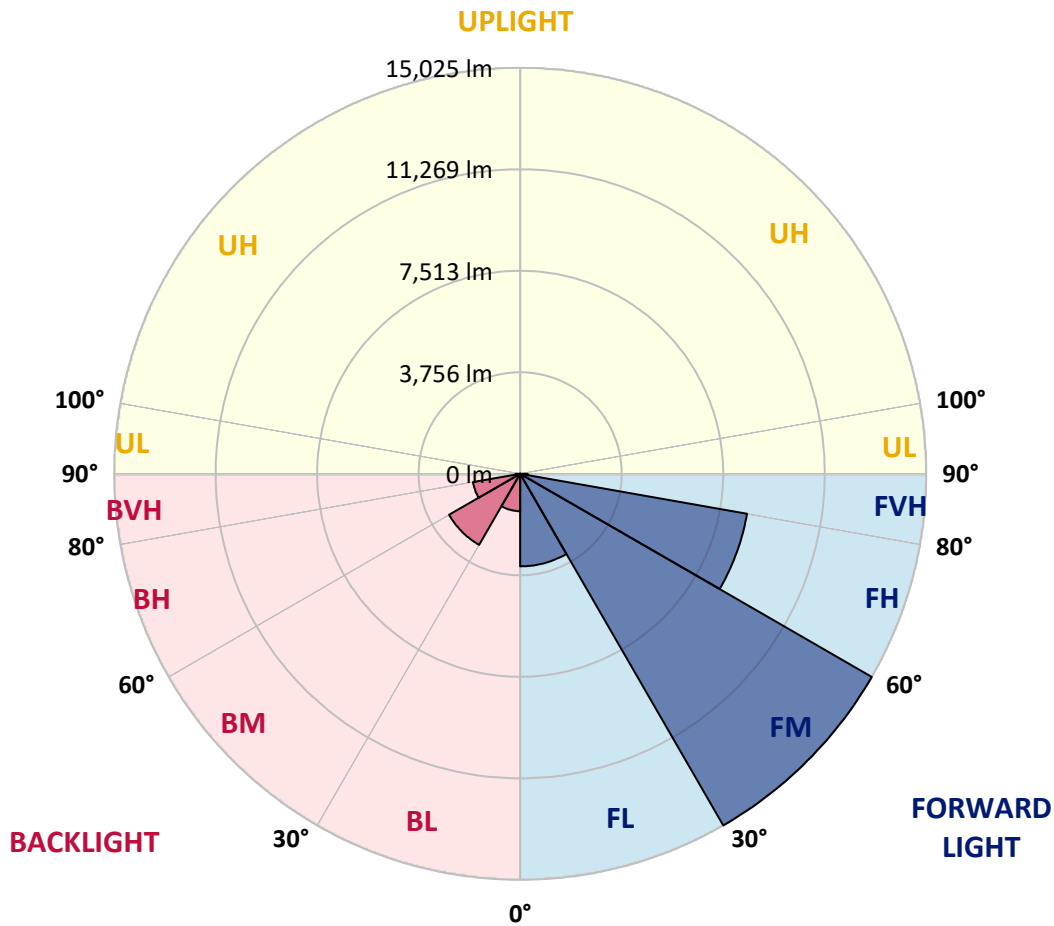


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3425.8	10.2			
FM (30°-60°)	15025.3	44.7			
FH (60°-80°)	8523.7	25.4			G4/12000
FVH (80°-90°)	275.0	0.8			G3/500
BL (0°-30°)	1382.2	4.1	B3/2500		
BM (30°-60°)	3036.6	9.0	B3/5000		
BH (60°-80°)	1773.5	5.3	B3/2500		G3/2500
BVH (80°-90°)	164.8	0.5			G2/225
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°	77°
0°	3943.1	3943.1	3943.1	3943.1	3943.1	3943.1	3943.1	3943.1	3943.1	3943.1
2.5°	4937.2	4971.9	4928.5	4928.5	4782.8	4706.4	4560.7	4449.7	4250.2	4215.5
5°	5835.8	5879.2	5818.4	5792.4	5620.7	5462.8	5218.2	4977.1	4621.4	4585.0
7.5°	6531.4	6586.9	6533.2	6505.4	6352.7	6175.8	5889.6	5553.0	5051.7	4980.5
10°	7098.7	7107.4	7090.0	7100.4	6980.7	6835.0	6541.8	6149.8	5523.5	5426.4
12.5°	7419.6	7459.5	7494.2	7556.7	7535.9	7445.7	7182.0	6713.6	6023.1	5898.2
15°	7570.6	7640.0	7718.0	7862.0	7978.2	8000.8	7799.6	7319.0	6531.4	6380.5
17.5°	7624.3	7690.3	7813.4	8021.6	8271.4	8439.7	8349.5	7907.1	7034.5	6861.0
20°	7896.7	7915.8	7990.4	8188.1	8458.8	8738.1	8805.7	8472.6	7532.4	7336.4
22.5°	8479.6	8441.4	8462.2	8552.4	8746.7	9017.4	9171.8	8972.3	8044.2	7818.6
25°	9442.4	9331.4	9220.3	9116.2	9215.1	9367.8	9543.0	9471.9	8580.2	8294.0
27.5°	10658.5	10523.1	10278.5	9936.8	9817.1	9870.9	9948.9	9935.1	9076.3	8786.6
30°	11855.5	11697.6	11406.2	10911.7	10596.0	10453.8	10394.8	10354.9	9615.9	9307.1
32.5°	12811.3	12686.4	12400.2	11846.8	11388.8	11145.9	10949.9	10807.7	10179.7	9870.9
35°	13647.5	13531.3	13203.4	12599.7	12101.8	11843.3	11586.6	11283.0	10766.0	10453.8
37.5°	14410.8	14294.6	13845.2	13217.3	12715.9	12537.2	12308.2	11793.0	11354.1	11059.2
40°	14893.0	14867.0	14447.2	13736.0	13215.5	13127.0	13050.7	12384.6	12006.4	11732.3
42.5°	15016.2	15073.5	14740.4	14155.8	13659.6	13588.5	13767.2	13054.2	12738.5	12476.5
45°	14719.6	14884.4	14665.8	14268.5	13975.4	13937.2	14402.1	13786.3	13548.6	13309.2
47.5°	13968.4	14247.7	14157.5	14102.0	14060.4	14225.2	14960.7	14563.4	14466.3	14258.1
50°	12452.2	12981.3	13139.2	13489.6	13892.1	14448.9	15469.0	15411.7	15538.4	15328.5
52.5°	9831.0	10559.6	11475.5	12353.3	13375.1	14374.4	16027.6	16629.6	17163.9	17049.4
55°	8115.3	8443.2	9147.5	10757.3	12372.4	14060.4	16279.1	17613.2	18777.2	18674.9
57.5°	6796.9	7090.0	7523.7	8868.2	10856.2	13347.4	16435.3	18213.4	19882.3	19871.9
60°	5383.0	5693.5	6137.6	7090.0	9085.0	12115.7	16400.6	18896.9	21292.6	21379.4
62.5°	3787.0	4128.8	4621.4	5509.6	7275.6	10519.7	15692.8	19391.3	22952.8	23188.7
65°	2489.4	2714.9	3086.2	3852.9	5421.2	8467.4	14341.4	19455.5	24729.2	25128.2
67.5°	1745.2	1831.9	2050.5	2466.9	3573.6	6493.3	12188.5	18791.1	25914.1	26363.4
70°	1361.8	1405.2	1516.2	1682.7	2244.8	4366.4	9340.0	17063.3	25660.8	26129.2
72.5°	1176.2	1217.8	1259.4	1280.3	1505.8	2695.8	6326.7	14266.8	23275.5	23592.9
75°	1066.9	1077.3	1112.0	1105.1	1148.4	1748.7	3651.7	10394.8	18364.3	18255.0
77.5°	896.9	910.8	968.0	959.3	1020.0	1195.3	1896.1	6708.4	11905.8	11163.3
80°	759.8	766.8	829.2	818.8	886.5	865.7	968.0	3419.2	5049.9	4278.0
82.5°	263.7	326.1	633.2	652.3	676.6	523.9	558.6	1394.8	1542.2	1181.4
85°	128.4	137.0	322.7	458.0	456.2	263.7	272.4	497.9	485.7	381.7
87.5°	20.8	26.0	38.2	178.7	142.3	69.4	93.7	97.1	100.6	86.7
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°
3943.1	0°	3943.1	3943.1	3943.1	3943.1	3943.1	3943.1	3943.1	3943.1	3943.1	3943.1
4083.7	2.5°	3986.5	3899.8	3717.6	3549.4	3417.5	3290.9	3219.7	3159.0	3124.3	3117.4
4274.5	5°	4094.1	3915.4	3584.0	3304.7	3122.6	2987.3	2916.2	2871.1	2848.5	2834.6
4531.2	7.5°	4248.5	3986.5	3514.7	3197.2	3006.4	2909.2	2872.8	2865.8	2864.1	2865.8
4841.8	10°	4461.8	4102.7	3507.7	3171.2	3011.6	2957.8	2956.1	2957.8	2964.7	2966.5
5180.0	12.5°	4692.6	4222.4	3535.5	3193.7	3077.5	3048.0	3042.8	3041.1	3046.3	3049.7
5521.8	15°	4944.1	4380.3	3582.3	3242.3	3150.4	3119.1	3113.9	3103.5	3101.8	3100.0
5880.9	17.5°	5202.6	4536.4	3634.4	3294.3	3197.2	3153.8	3134.7	3110.5	3091.4	3086.2
6252.1	20°	5464.5	4690.8	3670.8	3320.4	3200.7	3139.9	3101.8	3060.1	3027.2	3008.1
6626.8	22.5°	5743.8	4852.2	3693.3	3313.4	3169.4	3086.2	3016.8	2968.2	2917.9	2884.9
7005.0	25°	6016.2	4992.7	3691.6	3277.0	3108.7	3002.9	2914.4	2852.0	2782.6	2747.9
7395.3	27.5°	6278.2	5119.3	3648.2	3212.8	3022.0	2904.0	2798.2	2723.6	2655.9	2623.0
7789.1	30°	6548.8	5225.1	3580.6	3119.1	2919.6	2789.5	2673.3	2609.1	2548.4	2517.2
8205.5	32.5°	6817.7	5322.3	3485.2	3002.9	2801.7	2676.8	2562.3	2503.3	2466.9	2466.9
8653.1	35°	7102.2	5389.9	3358.5	2867.6	2676.8	2557.1	2466.9	2432.2	2428.7	2407.9
9126.7	37.5°	7402.3	5433.3	3204.1	2728.8	2553.6	2440.8	2413.1	2371.4	2336.7	2291.6
9647.1	40°	7718.0	5476.7	3018.5	2584.8	2423.5	2361.0	2348.9	2293.4	2194.5	2083.5
10236.9	42.5°	8101.4	5506.2	2825.9	2440.8	2286.4	2265.6	2283.0	2187.6	2029.7	1946.4
10948.2	45°	8545.5	5554.8	2649.0	2298.6	2145.9	2145.9	2218.8	2093.9	1963.8	1911.7
11760.0	47.5°	9121.5	5667.5	2484.2	2142.4	2015.8	2050.5	2076.5	1981.1	1908.3	1844.1
12748.9	50°	9954.1	5938.1	2314.2	1984.6	1916.9	1986.3	1949.9	1894.4	1809.4	1757.3
14320.6	52.5°	10988.1	6097.7	2163.3	1842.3	1831.9	1901.3	1849.3	1797.2	1733.0	1663.6
15512.4	55°	11692.4	6127.2	2036.6	1738.2	1774.7	1767.7	1748.7	1701.8	1667.1	1575.2
16688.5	57.5°	12480.0	6186.2	1932.5	1675.8	1738.2	1661.9	1655.0	1615.1	1570.0	1507.5
18123.2	60°	13422.0	6278.2	1842.3	1651.5	1707.0	1592.5	1557.8	1542.2	1497.1	1465.9
19849.3	62.5°	14448.9	6361.4	1750.4	1655.0	1670.6	1524.9	1472.8	1467.6	1439.9	1429.5
21469.6	65°	15149.8	6134.2	1635.9	1651.5	1613.3	1455.5	1389.6	1387.8	1365.3	1361.8
22172.2	67.5°	14905.2	5414.2	1481.5	1602.9	1554.4	1386.1	1313.2	1306.3	1276.8	1278.5
21438.4	70°	13680.4	4387.2	1268.1	1483.2	1481.5	1323.6	1233.4	1210.9	1171.0	1177.9
18640.2	72.5°	11383.6	3251.0	981.9	1283.7	1365.3	1266.4	1141.5	1105.1	1054.7	1061.7
13760.2	75°	8221.1	2210.1	714.7	976.7	1188.3	1198.7	1051.3	988.8	928.1	938.5
7659.0	77.5°	4206.8	1252.5	525.6	673.1	933.3	1089.4	969.7	886.5	872.6	969.7
2208.4	80°	1372.2	628.0	364.3	471.9	612.4	891.7	850.0	754.6	751.2	773.7
463.2	82.5°	409.4	265.4	234.2	310.5	338.3	683.5	733.8	570.7	490.9	517.0
154.4	85°	140.5	128.4	133.6	154.4	161.3	400.7	513.5	378.2	357.4	393.8
34.7	87.5°	33.0	45.1	38.2	34.7	34.7	97.1	199.5	157.9	218.6	145.7
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>
3943.1
3117.4
2832.9
2871.1
2968.2
3051.5
3098.3
3091.4
3015.0
2886.7
2747.9
2621.2
2515.4
2468.6
2402.7
2284.7
2067.9
1948.2
1920.4
1842.3
1752.1
1649.8
1576.9
1486.7
1474.6
1429.5
1360.1
1278.5
1184.9
1059.9
942.0
955.9
664.4
534.3
388.6
140.5
0.0

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