

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: P953727

Luminaire Tested: **GALN-SB7A-940-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953727
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-SB7A-940-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23546 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

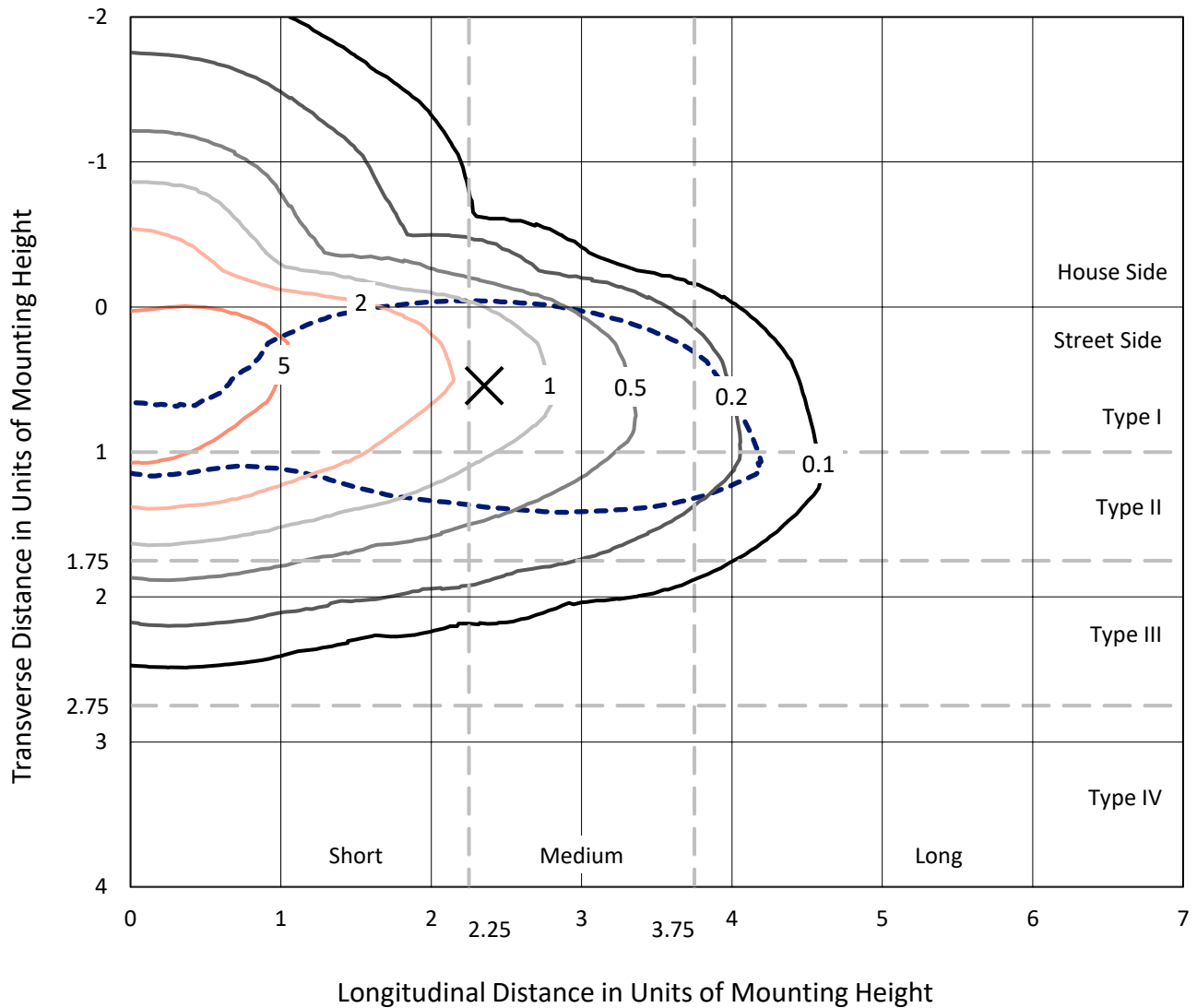
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

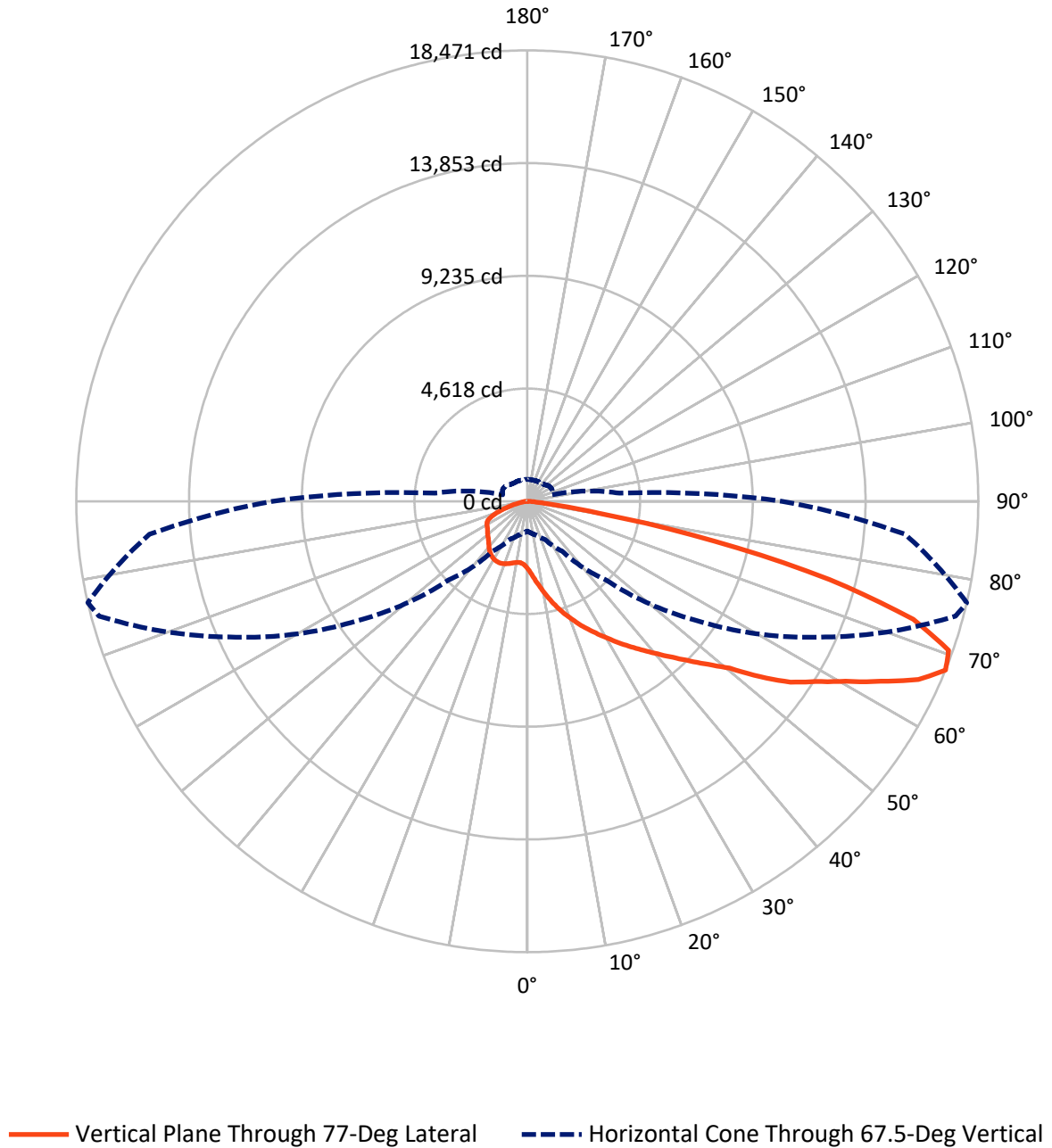
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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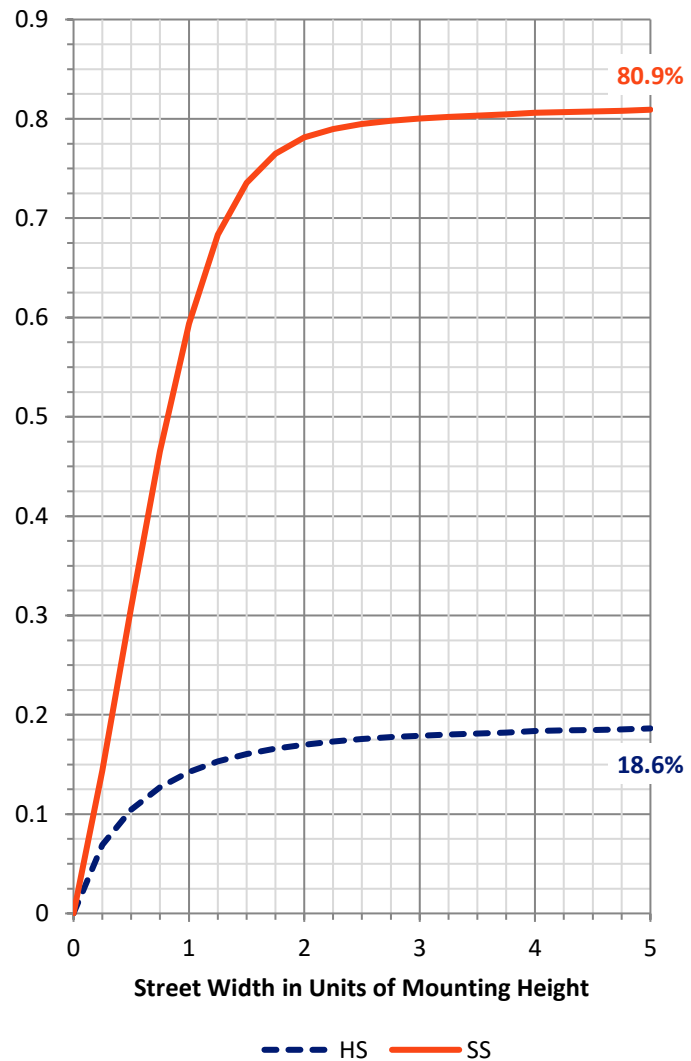
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4454.0	0.0	4454.0
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	19092.0	0.0	19092.0
	% Fixture	81.1	0.0	81.1
Total	Lumens	23546.0	0.0	23546.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.1	1.3
10°-20°	1063.8	4.5
20°-30°	2008.6	8.5
30°-40°	3235.9	13.7
40°-50°	4426.1	18.8
50°-60°	4992.7	21.2
60°-70°	4660.1	19.8
70°-80°	2554.5	10.8
80°-90°	308.1	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°	23546.0	100.0
0°-180°	23546.0	100.0



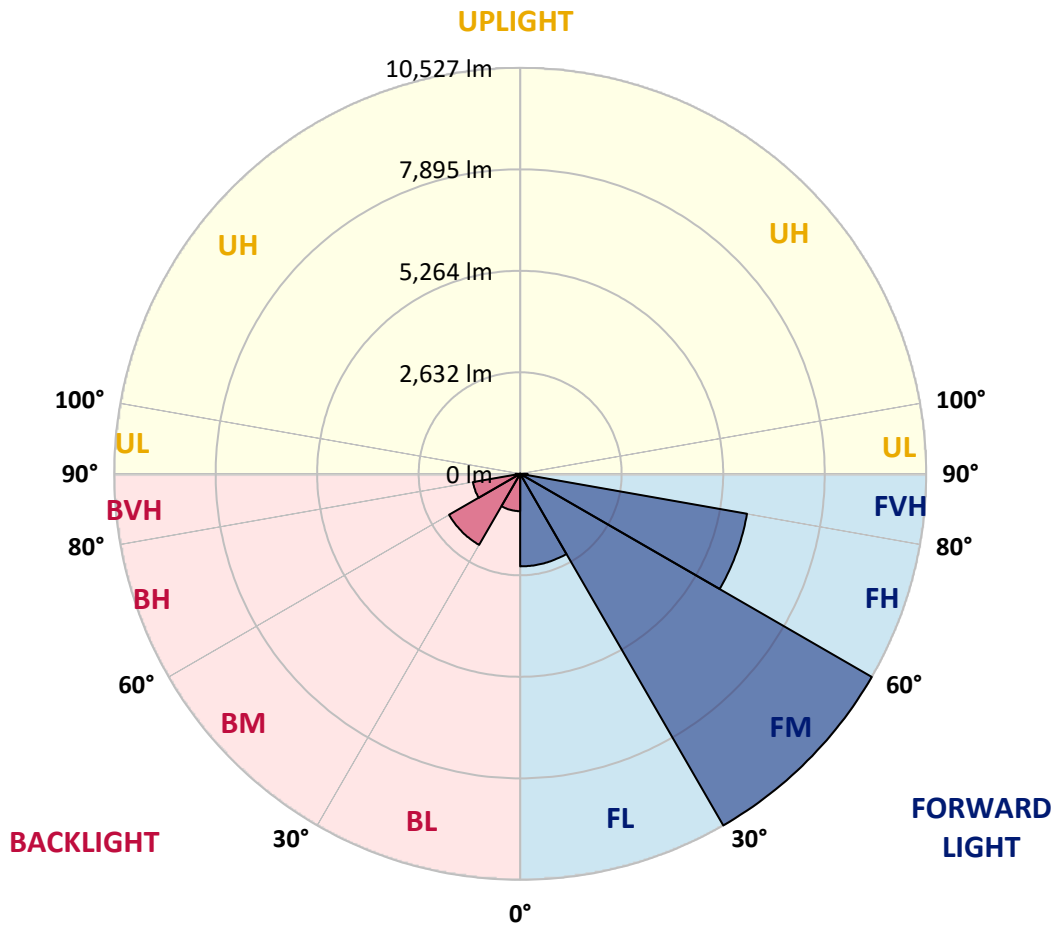
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2400.2	10.2			
FM (30°-60°)	10527.2	44.7			
FH (60°-80°)	5972.0	25.4			G3/7500
FVH (80°-90°)	192.7	0.8			G2/225
BL (0°-30°)	968.4	4.1	B2/1000		
BM (30°-60°)	2127.5	9.0	B2/2500		
BH (60°-80°)	1242.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	115.4	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2762.7	2762.7	2762.7	2762.7	2762.7	2762.7	2762.7	2762.7	2762.7	2762.7
2.5°	3459.1	3483.4	3453.0	3453.0	3350.9	3297.5	3195.4	3117.6	2977.8	2953.5
5°	4088.7	4119.1	4076.6	4058.3	3938.0	3827.4	3656.0	3487.1	3237.9	3212.4
7.5°	4576.1	4615.0	4577.3	4557.9	4450.9	4326.9	4126.4	3890.6	3539.3	3489.5
10°	4973.5	4979.6	4967.5	4974.8	4890.9	4788.8	4583.4	4308.7	3869.9	3801.9
12.5°	5198.4	5226.4	5250.7	5294.4	5279.8	5216.6	5031.9	4703.7	4220.0	4132.5
15°	5304.1	5352.8	5407.5	5508.3	5589.8	5605.6	5464.6	5127.9	4576.1	4470.4
17.5°	5341.8	5388.0	5474.3	5620.2	5795.2	5913.1	5849.9	5539.9	4928.6	4807.0
20°	5532.6	5546.0	5598.3	5736.8	5926.4	6122.1	6169.5	5936.2	5277.4	5140.1
22.5°	5941.0	5914.3	5928.9	5992.1	6128.2	6317.8	6426.0	6286.2	5636.0	5478.0
25°	6615.6	6537.8	6460.0	6387.1	6456.4	6563.3	6686.1	6636.3	6011.5	5811.0
27.5°	7467.6	7372.8	7201.4	6962.0	6878.1	6915.8	6970.5	6960.8	6359.1	6156.2
30°	8306.3	8195.7	7991.5	7645.1	7423.9	7324.2	7282.9	7254.9	6737.1	6520.8
32.5°	8976.0	8888.5	8687.9	8300.2	7979.3	7809.2	7671.8	7572.1	7132.2	6915.8
35°	9561.8	9480.4	9250.7	8827.7	8478.9	8297.8	8117.9	7905.2	7543.0	7324.2
37.5°	10096.6	10015.2	9700.4	9260.4	8909.1	8783.9	8623.5	8262.5	7955.0	7748.4
40°	10434.5	10416.3	10122.1	9623.8	9259.2	9197.2	9143.7	8677.0	8412.0	8220.0
42.5°	10520.8	10560.9	10327.5	9917.9	9570.3	9520.5	9645.7	9146.1	8924.9	8741.4
45°	10312.9	10428.4	10275.3	9996.9	9791.5	9764.8	10090.5	9659.0	9492.5	9324.8
47.5°	9786.7	9982.3	9919.1	9880.2	9851.1	9966.5	10481.9	10203.6	10135.5	9989.6
50°	8724.4	9095.1	9205.7	9451.2	9733.2	10123.3	10838.0	10797.9	10886.6	10739.6
52.5°	6887.9	7398.3	8040.1	8655.1	9371.0	10071.1	11229.4	11651.1	12025.5	11945.3
55°	5685.8	5915.5	6409.0	7536.9	8668.5	9851.1	11405.6	12340.3	13155.8	13084.1
57.5°	4762.1	4967.5	5271.3	6213.3	7606.2	9351.5	11515.0	12760.8	13930.1	13922.8
60°	3771.5	3989.0	4300.2	4967.5	6365.2	8488.6	11490.7	13239.7	14918.2	14979.0
62.5°	2653.3	2892.7	3237.9	3860.2	5097.5	7370.4	10994.8	13586.1	16081.4	16246.7
65°	1744.1	1902.2	2162.3	2699.5	3798.2	5932.5	10048.0	13631.1	17326.0	17605.5
67.5°	1222.7	1283.5	1436.6	1728.3	2503.8	4549.4	8539.6	13165.6	18156.1	18470.9
70°	954.1	984.5	1062.3	1179.0	1572.8	3059.2	6543.9	11955.0	17978.7	18306.8
72.5°	824.1	853.2	882.4	897.0	1055.0	1888.8	4432.7	9995.7	16307.5	16529.9
75°	747.5	754.8	779.1	774.2	804.6	1225.2	2558.5	7282.9	12866.6	12790.0
77.5°	628.4	638.1	678.2	672.1	714.7	837.4	1328.5	4700.1	8341.5	7821.3
80°	532.4	537.2	581.0	573.7	621.1	606.5	678.2	2395.6	3538.1	2997.3
82.5°	184.7	228.5	443.6	457.0	474.0	367.1	391.4	977.2	1080.5	827.7
85°	89.9	96.0	226.1	320.9	319.7	184.7	190.8	348.8	340.3	267.4
87.5°	14.6	18.2	26.7	125.2	99.7	48.6	65.6	68.1	70.5	60.8
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°
2762.7	0°	2762.7	2762.7	2762.7	2762.7	2762.7	2762.7	2762.7	2762.7	2762.7	2762.7
2861.1	2.5°	2793.1	2732.3	2604.7	2486.8	2394.4	2305.7	2255.8	2213.3	2189.0	2184.1
2994.8	5°	2868.4	2743.2	2511.1	2315.4	2187.8	2093.0	2043.1	2011.5	1995.7	1986.0
3174.7	7.5°	2976.6	2793.1	2462.5	2240.0	2106.3	2038.3	2012.8	2007.9	2006.7	2007.9
3392.3	10°	3126.1	2874.5	2457.6	2221.8	2110.0	2072.3	2071.1	2072.3	2077.2	2078.4
3629.3	12.5°	3287.7	2958.4	2477.1	2237.6	2156.2	2135.5	2131.9	2130.7	2134.3	2136.7
3868.7	15°	3464.0	3069.0	2509.9	2271.6	2207.2	2185.3	2181.7	2174.4	2173.2	2172.0
4120.3	17.5°	3645.1	3178.4	2546.3	2308.1	2240.0	2209.7	2196.3	2179.3	2165.9	2162.3
4380.4	20°	3828.6	3286.5	2571.9	2326.3	2242.5	2199.9	2173.2	2144.0	2120.9	2107.6
4643.0	22.5°	4024.3	3399.6	2587.7	2321.5	2220.6	2162.3	2113.6	2079.6	2044.4	2021.3
4907.9	25°	4215.1	3498.0	2586.4	2296.0	2178.1	2103.9	2041.9	1998.2	1949.6	1925.2
5181.4	27.5°	4398.6	3586.7	2556.1	2251.0	2117.3	2034.6	1960.5	1908.2	1860.8	1837.7
5457.3	30°	4588.3	3660.9	2508.7	2185.3	2045.6	1954.4	1873.0	1828.0	1785.5	1763.6
5749.0	32.5°	4776.6	3728.9	2441.8	2103.9	1962.9	1875.4	1795.2	1753.9	1728.3	1728.3
6062.6	35°	4976.0	3776.3	2353.1	2009.1	1875.4	1791.5	1728.3	1704.0	1701.6	1687.0
6394.4	37.5°	5186.2	3806.7	2244.9	1911.9	1789.1	1710.1	1690.7	1661.5	1637.2	1605.6
6759.0	40°	5407.5	3837.1	2114.9	1811.0	1698.0	1654.2	1645.7	1606.8	1537.5	1459.7
7172.3	42.5°	5676.1	3857.8	1979.9	1710.1	1601.9	1587.4	1599.5	1532.7	1422.1	1363.7
7670.6	45°	5987.2	3891.8	1856.0	1610.4	1503.5	1503.5	1554.5	1467.0	1375.9	1339.4
8239.4	47.5°	6390.7	3970.8	1740.5	1501.1	1412.3	1436.6	1454.9	1388.0	1337.0	1292.0
8932.2	50°	6974.1	4160.4	1621.4	1390.5	1343.1	1391.7	1366.1	1327.3	1267.7	1231.2
10033.4	52.5°	7698.5	4272.2	1515.6	1290.8	1283.5	1332.1	1295.7	1259.2	1214.2	1165.6
10868.4	55°	8192.0	4292.9	1426.9	1217.9	1243.4	1238.5	1225.2	1192.3	1168.0	1103.6
11692.5	57.5°	8743.8	4334.2	1354.0	1174.1	1217.9	1164.4	1159.5	1131.6	1100.0	1056.2
12697.6	60°	9403.8	4398.6	1290.8	1157.1	1196.0	1115.8	1091.5	1080.5	1048.9	1027.0
13907.0	62.5°	10123.3	4457.0	1226.4	1159.5	1170.5	1068.4	1031.9	1028.3	1008.8	1001.5
15042.2	65°	10614.4	4297.8	1146.2	1157.1	1130.4	1019.7	973.6	972.3	956.5	954.1
15534.4	67.5°	10443.0	3793.4	1038.0	1123.1	1089.0	971.1	920.1	915.2	894.6	895.8
15020.3	70°	9584.9	3073.8	888.5	1039.2	1038.0	927.4	864.2	848.4	820.4	825.3
13059.8	72.5°	7975.7	2277.7	687.9	899.4	956.5	887.3	799.8	774.2	739.0	743.8
9640.8	75°	5759.9	1548.5	500.8	684.3	832.6	839.9	736.6	692.8	650.3	657.5
5366.1	77.5°	2947.4	877.5	368.3	471.6	653.9	763.3	679.4	621.1	611.4	679.4
1547.2	80°	961.4	440.0	255.2	330.6	429.0	624.7	595.6	528.7	526.3	542.1
324.5	82.5°	286.8	186.0	164.1	217.6	237.0	478.9	514.1	399.9	344.0	362.2
108.2	85°	98.5	89.9	93.6	108.2	113.0	280.8	359.8	265.0	250.4	275.9
24.3	87.5°	23.1	31.6	26.7	24.3	24.3	68.1	139.8	110.6	153.1	102.1
0.0	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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180°
2762.7
2184.1
1984.8
2011.5
2079.6
2137.9
2170.8
2165.9
2112.4
2022.5
1925.2
1836.5
1762.4
1729.6
1683.4
1600.7
1448.8
1364.9
1345.5
1290.8
1227.6
1155.9
1104.8
1041.6
1033.1
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