

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: P944916

Luminaire Tested: **GALN-SB1A-740-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944916  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1A-740-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

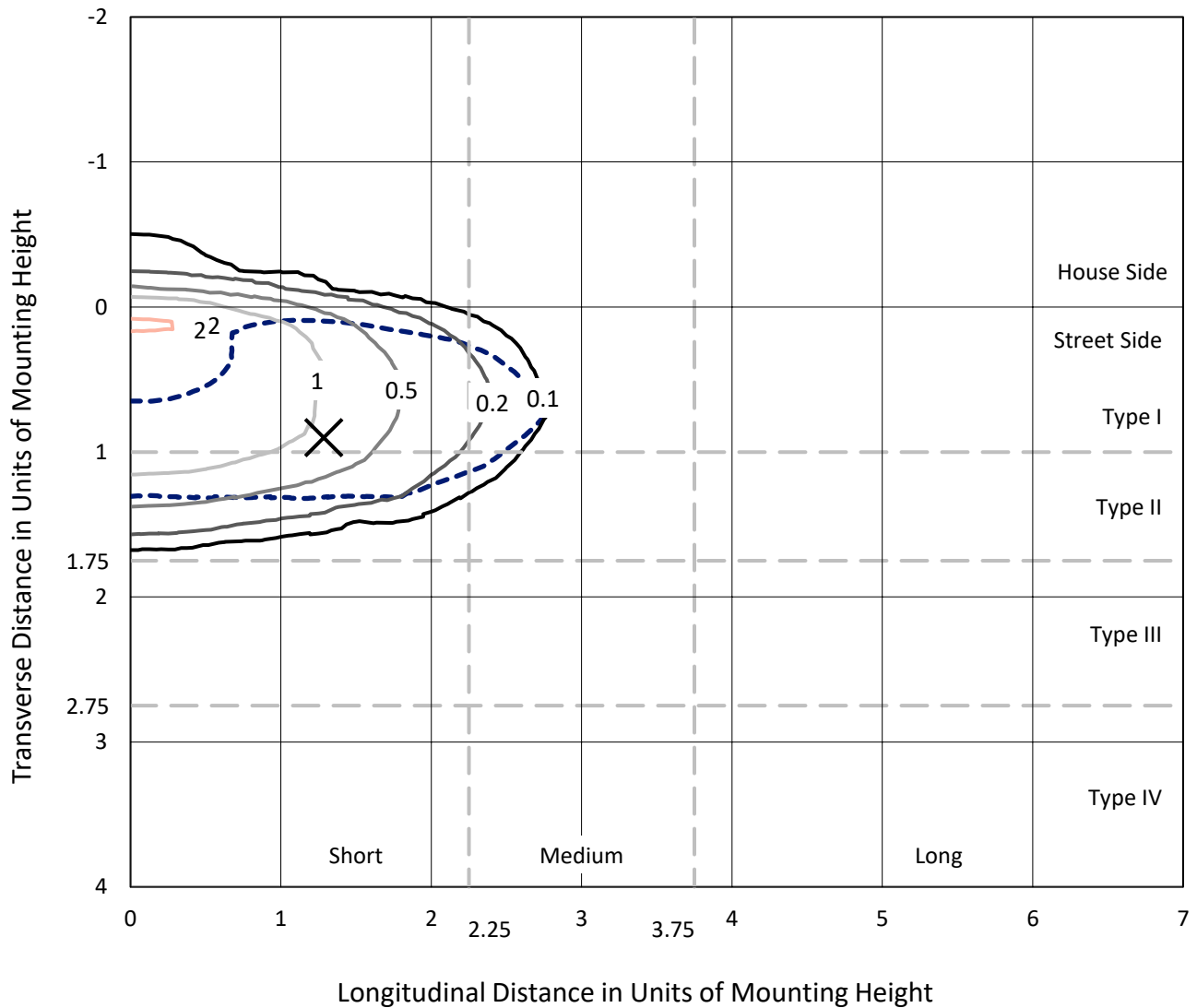
Lumens per Lamp: N/A  
Luminaire Lumens: 4048 lumens  
Efficiency: N/A  
Efficacy: 131.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

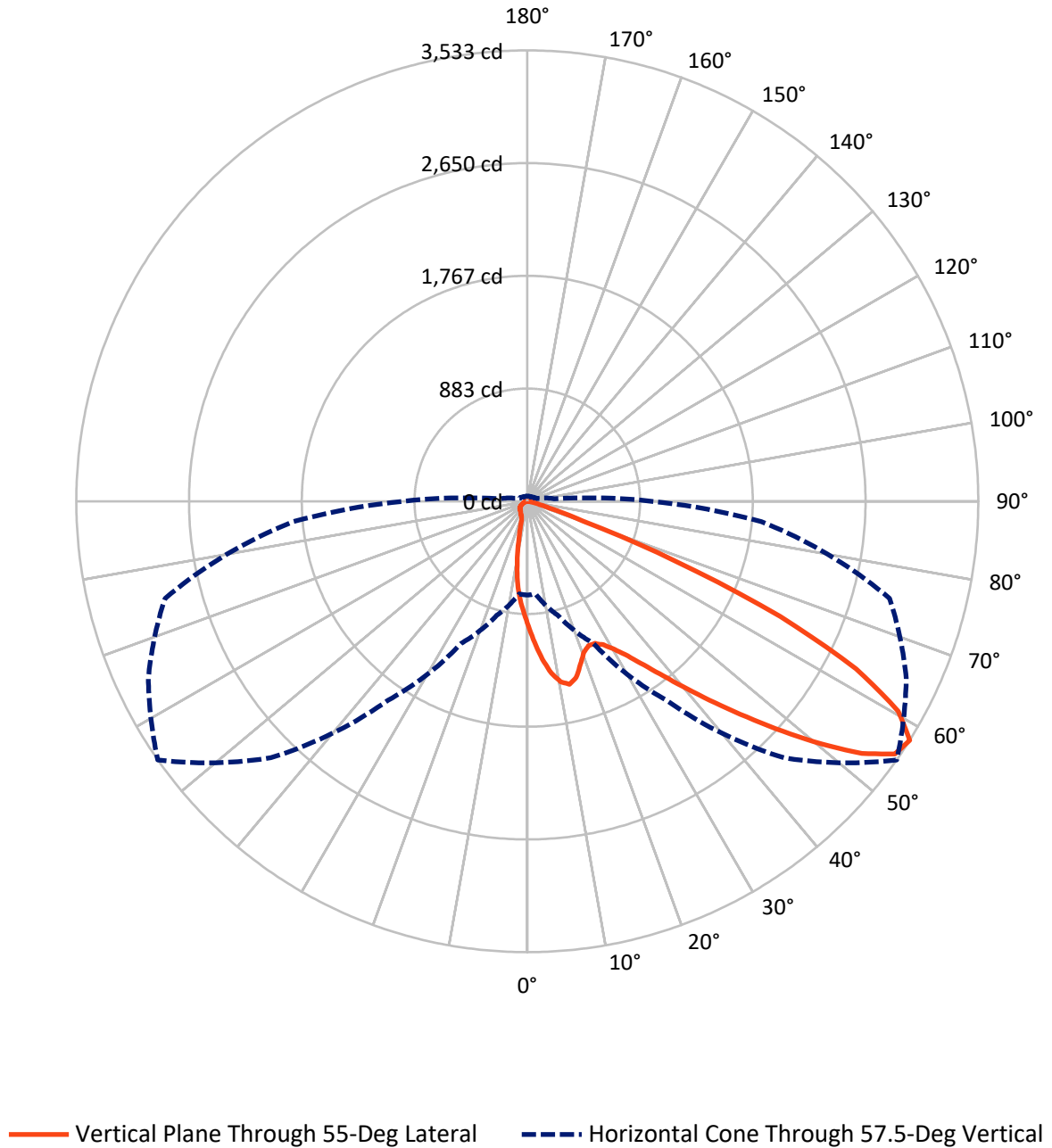
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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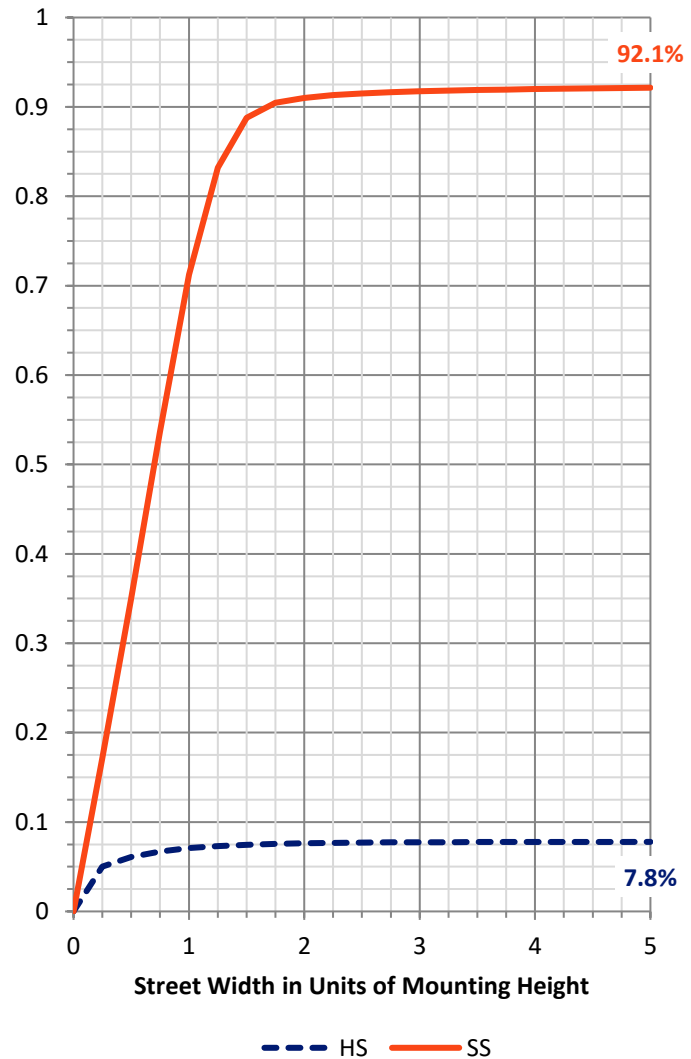
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	316.1	0.0	316.1
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	3731.9	0.0	3731.9
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	4048.0	0.0	4048.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.8	2.2
10°-20°	219.2	5.4
20°-30°	350.8	8.7
30°-40°	593.7	14.7
40°-50°	974.7	24.1
50°-60°	1071.3	26.5
60°-70°	614.5	15.2
70°-80°	125.6	3.1
80°-90°	7.4	0.2
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°	4048.0	100.0
0°-180°	4048.0	100.0

**Coefficient of Utilization**



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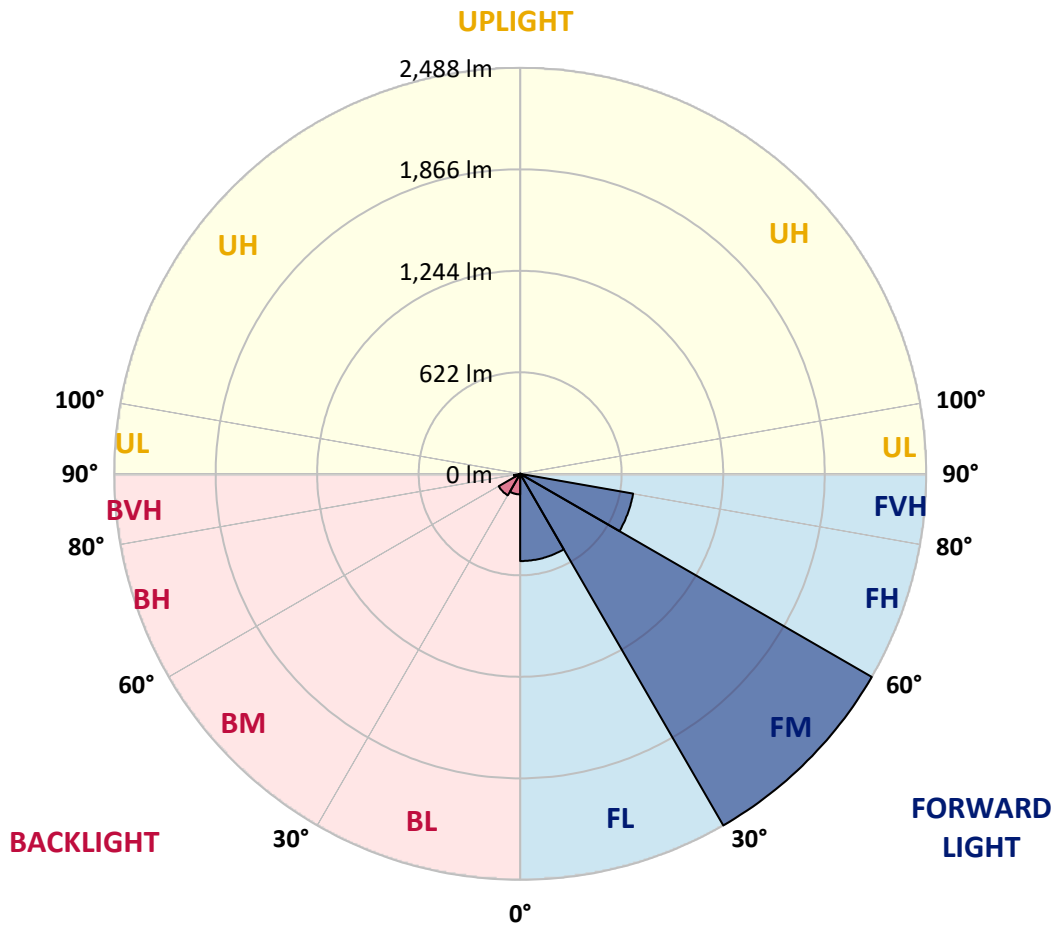
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	534.6	13.2			
FM (30°-60°)	2487.9	61.5			
FH (60°-80°)	702.5	17.4			G1/1800
FVH (80°-90°)	6.9	0.2			G0/10
BL (0°-30°)	126.2	3.1	B1/500		
BM (30°-60°)	151.8	3.8	B0/220		
BH (60°-80°)	37.6	0.9	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	975.5	975.5	975.5	975.5	975.5	975.5	975.5	975.5	975.5	975.5
2.5°	1210.3	1195.1	1192.9	1189.9	1160.9	1139.2	1107.8	1073.3	1034.6	995.2
5°	1398.3	1386.3	1384.1	1370.1	1337.2	1300.2	1244.3	1173.7	1101.5	1016.7
7.5°	1434.7	1432.5	1442.7	1442.2	1437.7	1408.5	1361.4	1277.2	1168.9	1043.1
10°	1272.3	1278.0	1308.4	1335.2	1407.3	1449.2	1439.0	1369.6	1238.3	1073.3
12.5°	1124.2	1117.5	1139.2	1169.4	1253.3	1378.1	1471.2	1446.7	1317.7	1107.5
15°	1031.4	1028.6	1040.9	1054.8	1118.7	1244.5	1433.7	1509.4	1394.1	1147.9
17.5°	1001.7	999.4	1003.2	1006.7	1048.1	1145.5	1344.6	1547.8	1467.2	1194.1
20°	1025.9	1022.9	1022.4	1019.6	1036.9	1103.3	1264.0	1550.6	1532.8	1236.1
22.5°	1096.5	1093.0	1080.8	1069.8	1071.3	1109.0	1228.1	1523.1	1582.3	1275.2
25°	1224.6	1218.8	1193.4	1156.4	1133.0	1148.9	1233.6	1486.9	1629.4	1305.9
27.5°	1384.8	1377.3	1344.6	1289.7	1236.1	1216.6	1273.3	1462.0	1668.6	1329.4
30°	1541.8	1532.1	1499.9	1457.2	1378.8	1317.4	1344.9	1472.9	1715.3	1353.9
32.5°	1711.3	1702.1	1659.4	1606.5	1541.6	1459.0	1443.0	1526.6	1772.5	1388.1
35°	1925.7	1911.2	1850.6	1778.5	1709.6	1625.9	1575.8	1619.2	1848.6	1440.2
37.5°	2169.8	2150.4	2085.0	1985.4	1895.5	1801.9	1737.5	1746.5	1960.2	1510.1
40°	2400.0	2382.3	2321.9	2228.0	2115.2	2001.6	1933.0	1913.0	2114.2	1595.2
42.5°	2538.0	2522.0	2496.6	2456.9	2361.8	2246.0	2159.4	2116.2	2296.4	1697.1
45°	2545.8	2531.8	2566.0	2612.1	2593.4	2516.3	2410.7	2331.6	2479.4	1792.7
47.5°	2421.9	2412.5	2516.3	2677.5	2757.9	2790.4	2693.0	2529.0	2630.4	1861.3
50°	2084.5	2081.0	2294.6	2590.7	2820.6	3030.5	2990.8	2712.7	2747.4	1896.8
52.5°	1807.4	1794.7	1919.2	2312.6	2729.5	3156.8	3281.8	2893.0	2829.3	1903.5
55°	1370.8	1359.6	1515.9	1847.3	2435.7	3111.9	3494.8	3078.9	2888.0	1886.3
57.5°	735.3	728.4	925.8	1229.6	1904.0	2842.3	3533.2	3275.6	2937.4	1840.6
60°	286.3	285.1	358.9	596.6	1157.2	2312.4	3339.3	3393.7	2968.3	1784.4
62.5°	173.2	177.0	189.0	267.8	511.2	1436.5	2892.2	3259.4	2989.1	1733.0
65°	143.3	143.5	145.0	184.0	244.9	601.1	2177.3	2817.6	2937.9	1641.4
67.5°	122.8	125.1	130.8	146.0	172.7	263.6	1253.5	2182.6	2626.6	1428.3
70°	96.8	99.8	107.1	120.1	133.3	165.0	463.3	1452.2	2006.6	1076.6
72.5°	81.6	81.4	85.1	97.6	105.8	116.1	178.2	813.7	1166.2	513.9
75°	63.2	65.6	70.4	81.6	86.6	84.1	96.6	297.3	417.8	155.8
77.5°	49.4	51.4	55.7	66.6	71.6	59.7	55.7	106.3	134.3	55.9
80°	22.2	24.0	37.9	49.2	58.4	41.2	30.2	54.4	59.7	25.5
82.5°	4.0	6.7	22.2	26.0	30.0	26.7	15.7	28.2	29.2	10.2
85°	0.2	0.5	7.7	9.5	12.0	8.7	4.7	11.2	9.7	3.5
87.5°	0.0	0.0	0.0	0.2	0.2	1.2	1.5	2.0	1.5	1.2
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):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
975.5	0°	975.5	975.5	975.5	975.5	975.5	975.5	975.5	975.5	975.5	975.5
977.7	2.5°	959.7	924.3	889.9	861.6	845.2	817.2	798.7	795.8	788.0	794.8
980.2	5°	941.3	877.9	813.7	756.3	709.1	648.2	602.8	583.6	566.9	572.6
986.7	7.5°	932.5	832.4	732.6	634.5	533.7	436.3	363.9	333.7	310.8	314.0
993.9	10°	920.8	785.3	628.8	479.0	344.0	247.9	197.9	179.5	169.2	169.5
1004.7	12.5°	911.8	728.9	508.2	324.7	209.4	158.3	142.8	138.3	135.3	135.5
1020.9	15°	907.3	662.5	389.1	216.4	149.8	134.0	130.3	128.3	126.3	126.1
1038.9	17.5°	899.8	588.6	284.8	158.0	131.0	125.6	122.3	120.1	117.6	117.1
1054.3	20°	888.6	504.7	208.2	133.5	122.8	118.6	114.1	111.1	108.1	107.6
1064.1	22.5°	867.9	416.1	160.0	123.6	116.8	112.1	106.6	103.1	100.1	99.6
1059.3	25°	829.4	333.0	134.8	117.3	111.6	105.8	99.8	95.1	92.4	91.9
1049.1	27.5°	780.8	261.6	122.3	111.6	104.8	99.6	92.9	88.4	85.9	85.4
1035.6	30°	723.4	201.4	115.1	105.1	96.8	92.4	86.4	82.6	81.1	81.1
1026.1	32.5°	661.5	161.0	112.1	98.6	89.9	84.9	80.1	78.6	78.1	77.9
1031.4	35°	603.3	139.8	110.6	93.4	83.6	78.9	76.9	77.1	78.1	78.1
1047.6	37.5°	551.6	133.0	109.8	89.6	78.1	73.9	75.1	77.4	76.4	76.4
1076.1	40°	505.0	133.8	109.3	86.9	73.6	71.1	73.6	71.9	69.4	69.1
1110.8	42.5°	469.3	140.0	108.3	84.6	70.9	69.1	68.1	65.4	65.1	65.6
1146.7	45°	443.3	145.5	108.1	83.6	67.9	64.6	63.4	60.7	65.6	66.9
1161.4	47.5°	412.6	145.5	108.1	80.1	62.9	61.7	59.7	56.7	61.7	62.9
1147.4	50°	372.9	136.3	103.8	76.1	58.9	58.2	54.7	50.9	49.9	50.7
1114.7	52.5°	322.7	119.6	93.1	70.6	54.9	53.4	49.2	46.4	45.7	45.7
1056.1	55°	265.6	100.1	78.6	62.7	50.7	47.9	44.9	43.7	42.9	42.4
974.0	57.5°	215.9	82.1	63.2	55.7	46.7	43.2	42.2	40.7	39.4	38.7
905.3	60°	177.2	64.6	52.2	49.4	42.7	39.4	39.2	37.2	33.9	33.4
848.7	62.5°	136.8	47.4	43.9	42.9	38.7	35.9	35.4	31.5	26.5	25.5
768.3	65°	96.6	36.9	35.4	37.7	34.4	31.9	30.7	24.7	19.5	18.7
643.0	67.5°	67.9	31.0	28.0	32.9	30.0	26.7	26.0	21.0	16.2	15.7
486.2	70°	48.4	25.2	23.0	28.2	24.0	23.5	22.0	17.5	13.2	12.7
240.6	72.5°	34.2	19.2	17.7	24.5	16.5	20.2	18.0	13.5	10.0	9.5
81.9	75°	25.2	13.7	12.5	14.2	12.0	15.2	12.7	9.0	6.2	6.0
36.9	77.5°	18.5	8.7	7.5	7.0	7.0	9.5	7.0	3.7	2.7	2.5
18.7	80°	13.0	4.0	3.5	3.0	2.7	2.2	1.0	0.5	0.2	0.2
6.5	82.5°	7.7	1.7	1.7	1.2	0.7	0.0	0.0	0.0	0.0	0.0
2.5	85°	1.7	0.7	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0
1.0	87.5°	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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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