

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: P957151

Luminaire Tested: **GALN-SB9C-830-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-830-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46843 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

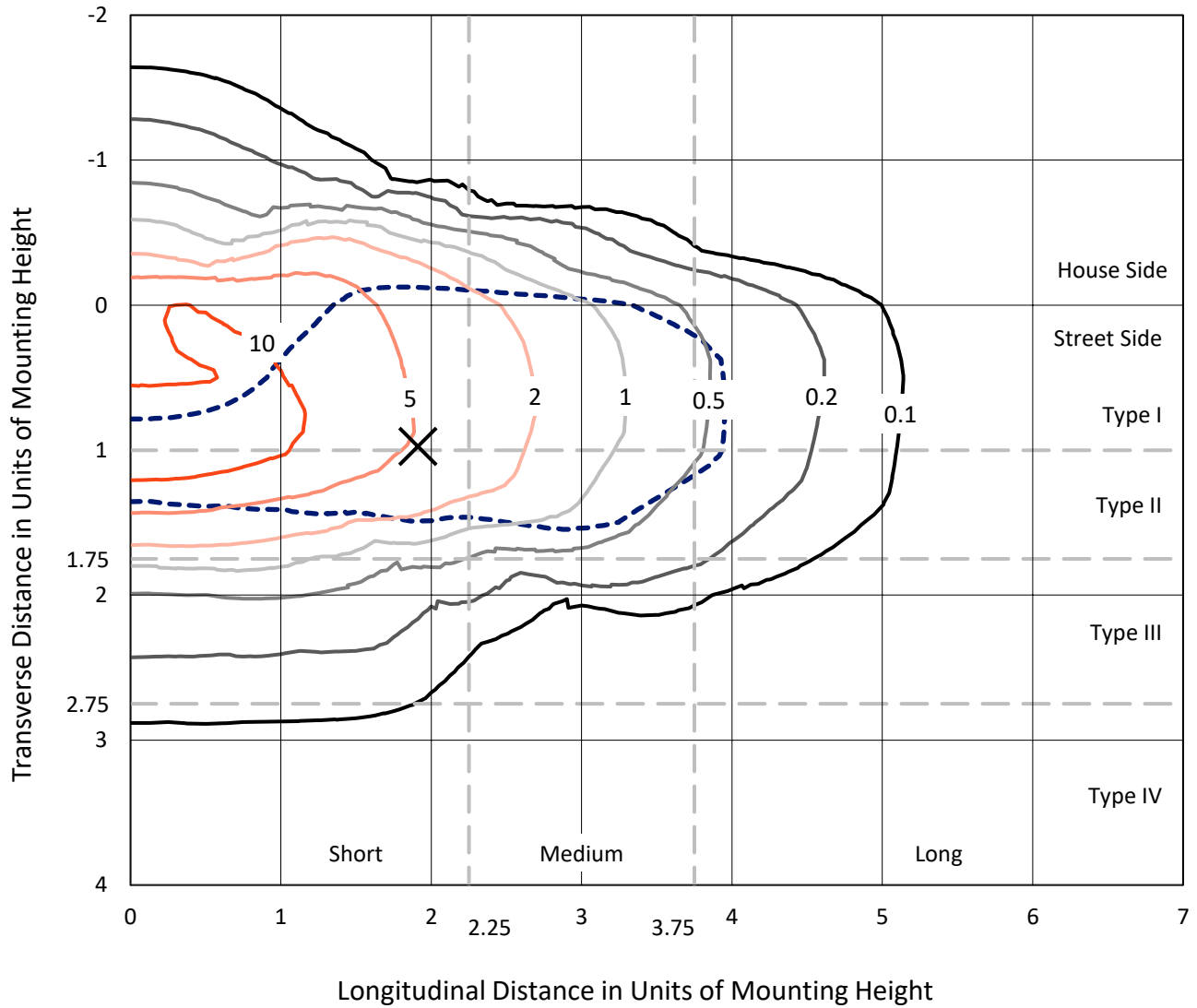
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

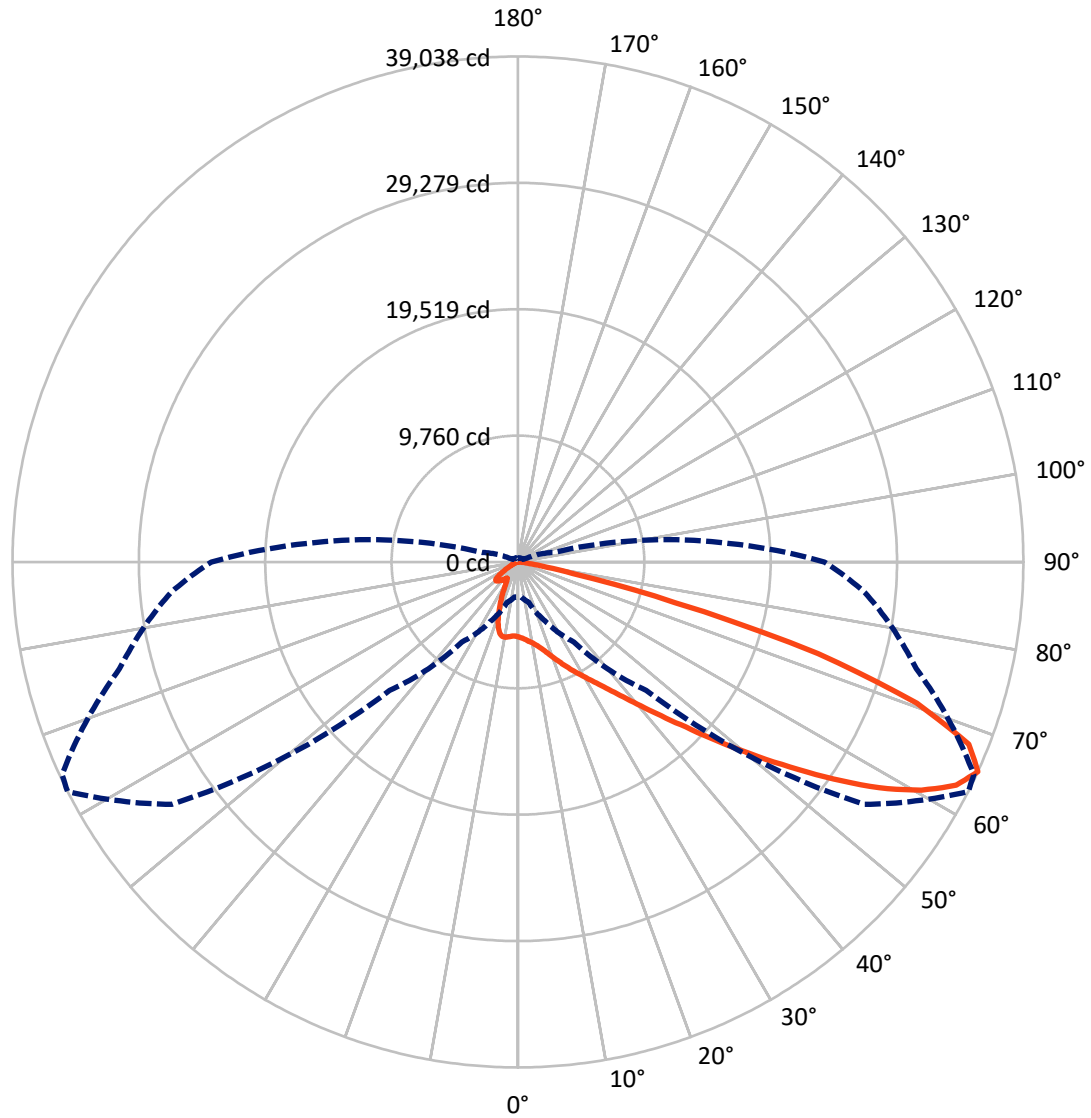
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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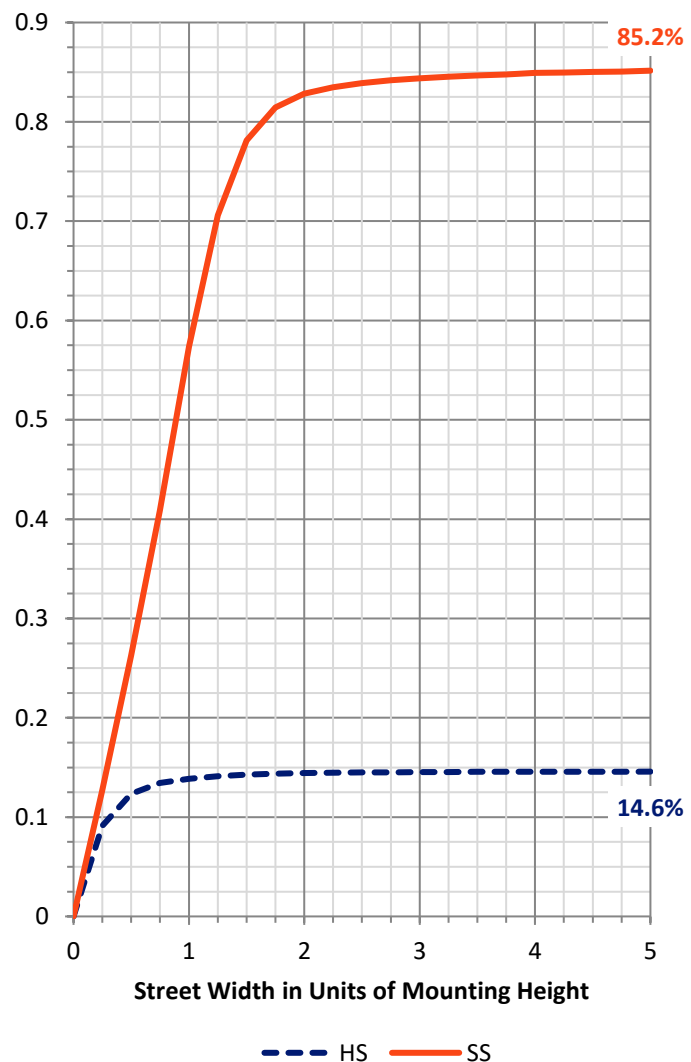
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6885.6	0.0	6885.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	39957.4	0.0	39957.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	46843.0	0.0	46843.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.7	1.2
10°-20°	1511.4	3.2
20°-30°	2631.7	5.6
30°-40°	4743.3	10.1
40°-50°	9407.5	20.1
50°-60°	12814.6	27.4
60°-70°	10228.5	21.8
70°-80°	4628.6	9.9
80°-90°	332.7	0.7
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°	46843.0	100.0
0°-180°	46843.0	100.0

Coefficient of Utilization

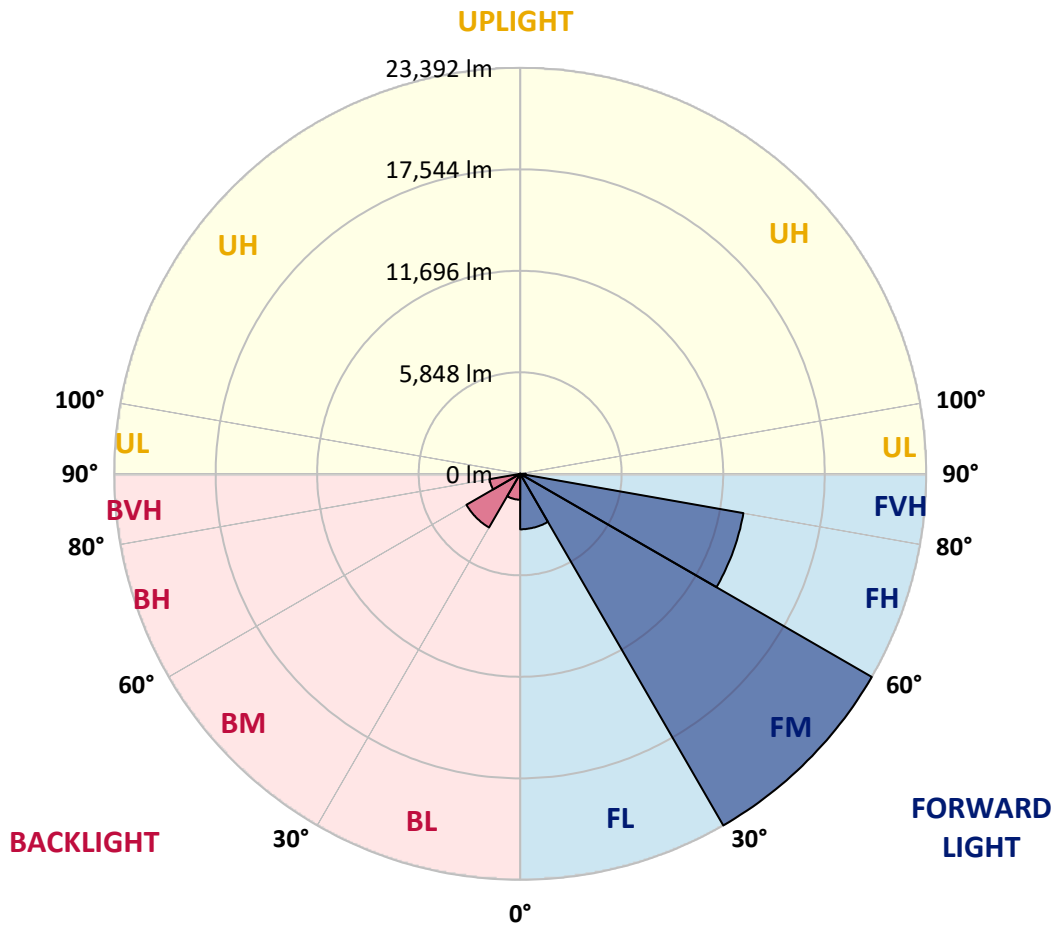


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3197.6	6.8			
FM (30°-60°)	23392.2	49.9			
FH (60°-80°)	13059.6	27.9			G5
FVH (80°-90°)	308.0	0.7			G3/500
BL (0°-30°)	1490.1	3.2	B3/2500		
BM (30°-60°)	3573.2	7.6	B3/5000		
BH (60°-80°)	1797.5	3.8	B3/2500		G3/2500
BVH (80°-90°)	24.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	5781.3	5781.3	5781.3	5781.3	5781.3	5781.3	5781.3	5781.3	5781.3	5781.3
2.5°	5916.7	5900.5	5923.1	5913.4	5907.0	5894.1	5887.7	5881.2	5868.3	5858.7
5°	5932.8	5923.1	5945.7	5965.0	5984.3	6003.7	6013.3	6026.2	6013.3	5987.6
7.5°	5797.4	5791.0	5839.3	5897.3	5984.3	6058.5	6139.0	6184.1	6187.4	6177.7
10°	5787.8	5771.6	5820.0	5890.9	6003.7	6135.8	6277.6	6374.3	6387.2	6429.1
12.5°	5939.2	5923.1	5990.8	6068.1	6184.1	6322.7	6496.7	6632.1	6651.4	6709.4
15°	6193.8	6171.2	6248.6	6348.5	6496.7	6654.6	6838.3	6960.8	6976.9	7047.8
17.5°	6490.3	6467.7	6558.0	6664.3	6825.4	7041.3	7254.0	7389.4	7408.7	7453.8
20°	6870.5	6841.5	6912.4	7009.1	7179.9	7437.7	7692.3	7885.7	7882.4	7882.4
22.5°	7312.0	7266.9	7328.2	7405.5	7566.6	7879.2	8217.6	8446.4	8446.4	8356.2
25°	7785.8	7740.6	7808.3	7879.2	8021.0	8375.5	8771.9	9055.5	9068.3	8913.7
27.5°	8378.7	8320.7	8372.3	8456.1	8539.8	8900.8	9371.3	9700.0	9706.4	9467.9
30°	9519.5	9355.2	9194.0	9103.8	9142.5	9500.2	10002.9	10367.0	10399.3	10070.6
32.5°	11607.7	11575.5	11008.3	10267.1	9880.4	10144.7	10708.6	11146.9	11166.2	10744.1
35°	14852.9	14814.2	13902.2	12490.7	11230.7	11008.3	11565.8	12084.7	12071.8	11594.8
37.5°	18726.4	18691.0	17489.0	15600.5	13560.6	12313.5	12671.2	13215.8	13296.4	12671.2
40°	22036.0	21903.9	21143.4	19322.6	16654.3	14479.1	14243.8	14604.7	14688.5	13947.3
42.5°	24543.2	24430.4	24043.7	22906.1	20398.9	17682.3	16096.8	16235.4	16328.8	15439.4
45°	25841.9	25816.1	25970.8	25864.4	24214.5	21613.9	18745.8	18168.9	18204.4	17092.6
47.5°	26025.6	26012.7	26718.4	27717.4	27495.1	26048.1	22145.6	20579.4	20453.7	18958.4
50°	24942.8	24917.0	26270.5	28142.8	29686.4	29773.4	26006.2	23296.0	23018.9	20888.8
52.5°	21485.0	21478.5	23702.1	26818.3	30456.6	33034.7	29821.8	26280.2	25816.1	22931.9
55°	16531.8	16651.1	19200.1	22883.6	29051.6	34604.1	33247.4	29593.0	28880.8	24987.9
57.5°	11710.9	11884.9	14404.9	17685.5	24694.6	33676.0	35564.4	32912.2	32145.3	27037.5
60°	6290.5	6445.2	8968.4	12883.9	18371.9	30214.9	36785.8	35793.2	35068.1	28983.9
62.5°	3747.9	3799.4	4843.5	8317.5	12426.3	23083.4	36266.9	37987.8	37391.6	30617.7
65°	2690.9	2700.5	3225.8	5078.8	7544.1	14024.7	32628.6	39038.4	38854.7	31848.8
67.5°	2265.5	2259.0	2478.2	3374.0	5140.0	7025.2	25007.2	37552.7	38332.6	32628.6
70°	1943.2	1952.9	2210.7	2471.7	3863.9	3976.7	12432.7	32696.3	34359.2	32834.9
72.5°	1446.9	1479.2	1717.6	2252.6	2916.4	2736.0	4292.5	24243.5	27250.1	30936.8
75°	1021.6	1037.7	1208.5	1894.9	2175.2	1991.6	2191.4	12532.6	16386.8	23718.2
77.5°	786.3	815.3	915.2	1324.5	2143.0	1398.6	1340.6	4337.6	6664.3	14327.6
80°	425.4	476.9	660.6	957.1	1504.9	989.3	663.9	1727.3	2259.0	6699.7
82.5°	219.1	244.9	460.8	689.6	857.2	863.7	328.7	718.6	931.3	2068.9
85°	87.0	106.3	309.4	380.3	441.5	425.4	148.2	290.0	335.1	573.6
87.5°	19.3	32.2	112.8	87.0	83.8	90.2	35.4	67.7	64.5	67.7
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°
5781.3	0°	5781.3	5781.3	5781.3	5781.3	5781.3	5781.3	5781.3	5781.3	5781.3	5781.3
5820.0	2.5°	5816.8	5803.9	5768.4	5729.7	5684.6	5658.9	5642.7	5639.5	5617.0	5600.8
5948.9	5°	5913.4	5900.5	5832.9	5752.3	5665.3	5597.6	5533.2	5475.2	5391.4	5375.3
6135.8	7.5°	6106.8	6071.3	5961.8	5852.2	5687.9	5491.3	5252.8	4978.9	4734.0	4659.9
6383.9	10°	6345.3	6296.9	6158.4	5965.0	5600.8	5065.9	4489.1	3954.1	3528.7	3409.5
6677.2	12.5°	6616.0	6574.1	6390.4	6032.7	5236.7	4266.7	3383.7	2719.9	2307.4	2204.2
6989.8	15°	6938.2	6877.0	6622.4	5929.6	4585.7	3241.9	2323.5	1930.3	1782.1	1762.8
7347.5	17.5°	7279.8	7179.9	6828.7	5559.0	3709.2	2304.1	1795.0	1682.2	1617.7	1598.4
7708.4	20°	7592.4	7463.5	6951.1	4998.2	2771.4	1795.0	1608.1	1533.9	1475.9	1453.4
8069.3	22.5°	7905.0	7721.3	6951.1	4234.5	2078.6	1592.0	1475.9	1408.3	1340.6	1311.6
8456.1	25°	8230.5	7985.6	6828.7	3383.7	1672.5	1459.8	1350.3	1276.1	1218.1	1182.7
8823.4	27.5°	8546.3	8207.9	6548.3	2578.1	1488.8	1343.8	1234.2	1163.4	1108.6	1082.8
9223.0	30°	8846.0	8427.1	6155.1	1956.1	1369.6	1231.0	1127.9	1066.7	1011.9	986.1
9741.9	32.5°	9252.0	8704.2	5736.2	1604.8	1266.5	1124.7	1031.2	973.2	924.9	905.5
10415.4	35°	9816.0	9113.5	5375.3	1575.8	1179.5	1037.7	944.2	889.4	841.1	825.0
11285.5	37.5°	10615.2	9774.1	5185.1	1769.2	1108.6	960.3	873.3	815.3	770.2	757.3
12390.8	40°	11601.3	10670.0	5288.3	1962.6	1060.2	892.7	808.9	750.9	712.2	696.1
13660.5	42.5°	12771.1	11775.3	5858.7	2110.8	1028.0	834.6	747.6	683.2	657.4	651.0
15101.0	45°	14114.9	12990.2	6732.0	2268.7	976.4	779.9	686.4	638.1	618.7	615.5
16667.2	47.5°	15642.4	14324.4	7743.9	2465.3	924.9	728.3	638.1	605.8	589.7	583.3
18301.0	50°	17157.0	15668.2	8784.8	2574.8	883.0	680.0	599.4	573.6	560.7	557.5
20028.3	52.5°	18742.5	17050.7	9625.9	2471.7	847.5	641.3	567.2	547.8	534.9	531.7
21620.3	55°	20253.9	18168.9	9770.9	2097.9	776.6	602.6	531.7	522.1	505.9	505.9
23234.8	57.5°	21555.8	18729.6	8746.1	1540.4	705.7	544.6	496.3	486.6	473.7	470.5
24691.4	60°	22751.4	18568.5	6751.3	1037.7	628.4	486.6	451.2	444.7	431.8	415.7
25957.9	62.5°	23424.9	17859.5	4618.0	676.7	551.1	425.4	399.6	396.4	367.4	335.1
26895.7	65°	23679.5	16402.9	2881.0	493.1	460.8	364.2	344.8	338.4	296.5	261.0
27427.4	67.5°	23457.2	14005.3	1453.4	389.9	364.2	302.9	283.6	283.6	254.6	222.4
27395.2	70°	22567.7	10499.2	612.3	312.6	280.4	232.0	232.0	244.9	215.9	180.5
25974.0	72.5°	20637.4	7063.9	325.5	238.5	209.5	164.4	190.1	199.8	170.8	135.3
21259.4	75°	16406.2	4308.6	225.6	177.2	132.1	116.0	145.0	151.5	116.0	90.2
14575.7	77.5°	11221.0	2474.9	151.5	112.8	83.8	67.7	99.9	93.5	61.2	41.9
5620.2	80°	4927.3	1031.2	87.0	51.6	32.2	25.8	35.4	25.8	19.3	12.9
770.2	82.5°	576.8	241.7	32.2	19.3	12.9	6.4	3.2	0.0	0.0	0.0
235.2	85°	119.2	29.0	16.1	6.4	3.2	0.0	0.0	0.0	0.0	0.0
41.9	87.5°	22.6	6.4	3.2	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

(END O

<u>180°</u>
5781.3
5617.0
5368.8
4624.4
3364.4
2175.2
1743.4
1588.7
1440.5
1295.5
1169.8
1082.8
989.3
905.5
825.0
754.1
692.9
651.0
612.3
583.3
557.5
531.7
502.7
467.3
412.5
328.7
257.8
219.1
177.2
135.3
87.0
45.1
12.9
0.0
0.0
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