

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: P943686

Luminaire Tested: **GALN-SB8B-740-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943686  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8B-740-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

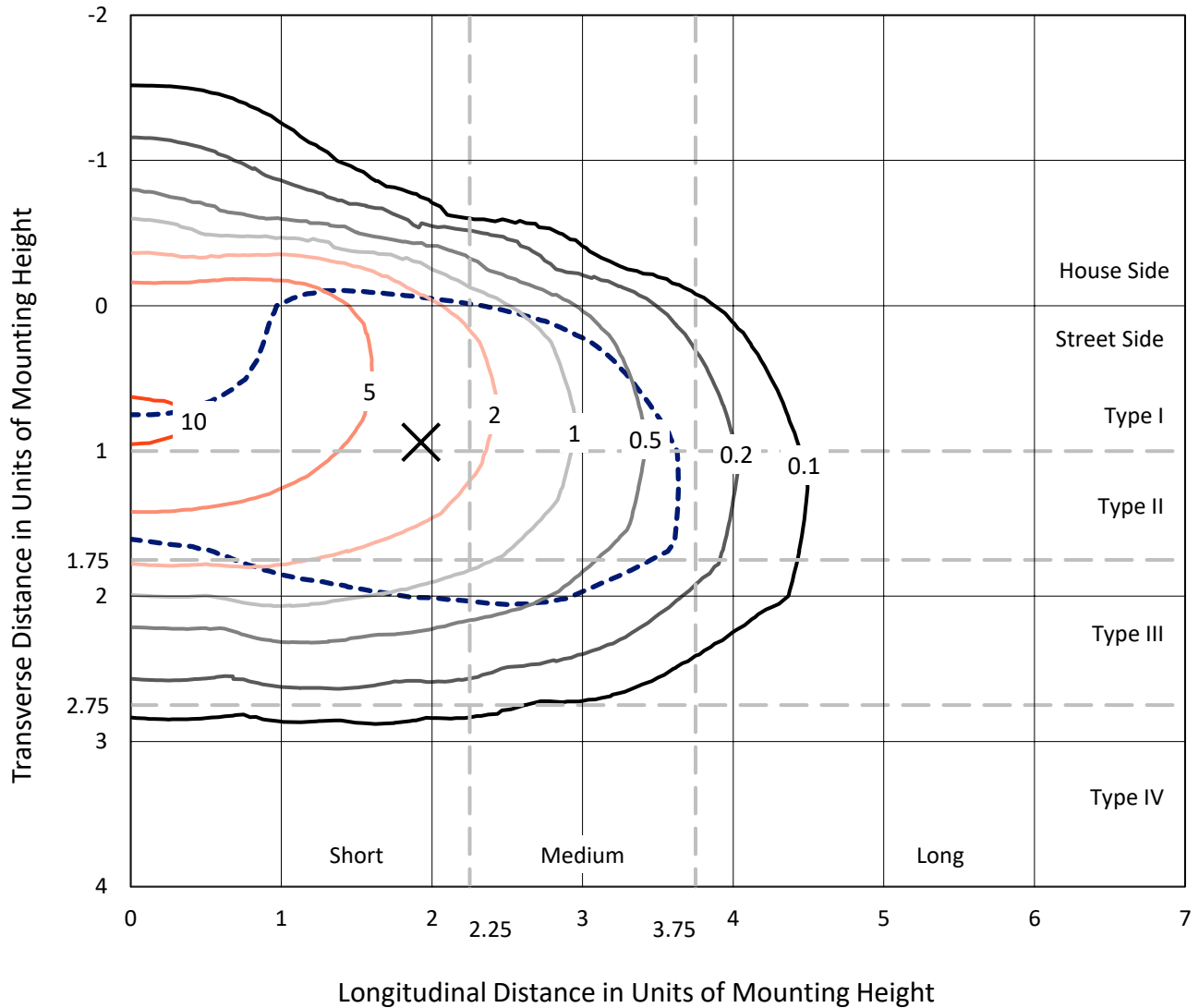
Lumens per Lamp: N/A  
Luminaire Lumens: 37781 lumens  
Efficiency: N/A  
Efficacy: 129.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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

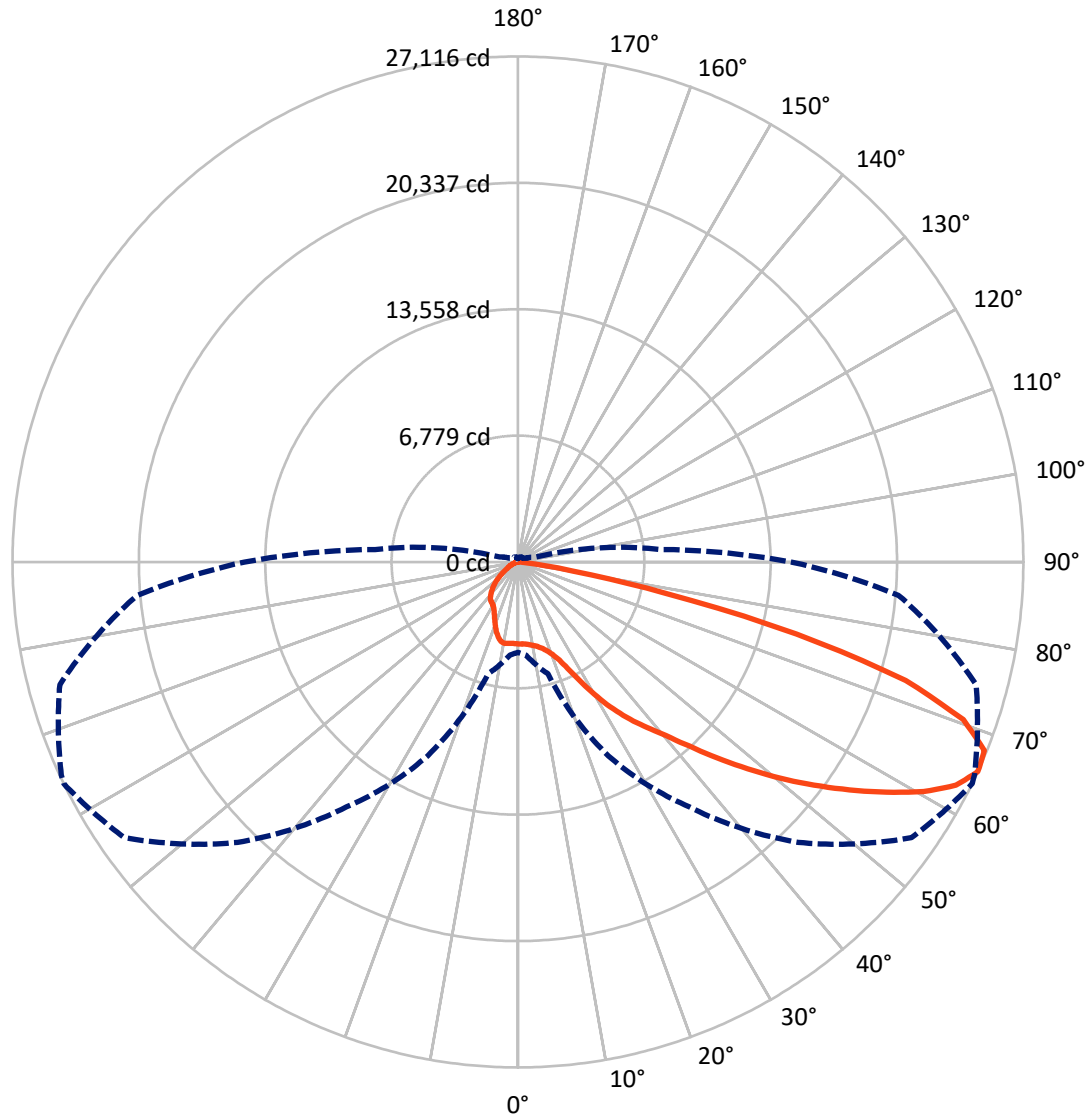
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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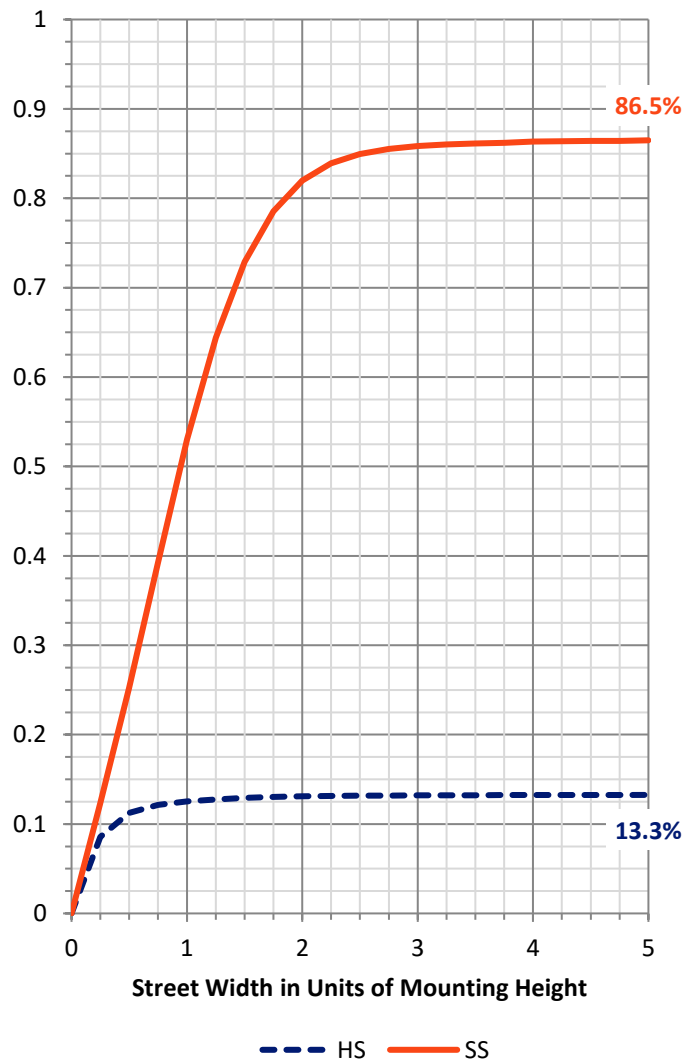
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5052.5	0.0	5052.5
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	32728.5	0.0	32728.5
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	37781.0	0.0	37781.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	405.4	1.1
10°-20°	1099.6	2.9
20°-30°	2083.7	5.5
30°-40°	4216.4	11.2
40°-50°	7182.6	19.0
50°-60°	9767.8	25.9
60°-70°	9172.5	24.3
70°-80°	3674.9	9.7
80°-90°	178.0	0.5
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°	37781.0	100.0
0°-180°	37781.0	100.0

**Coefficient of Utilization**



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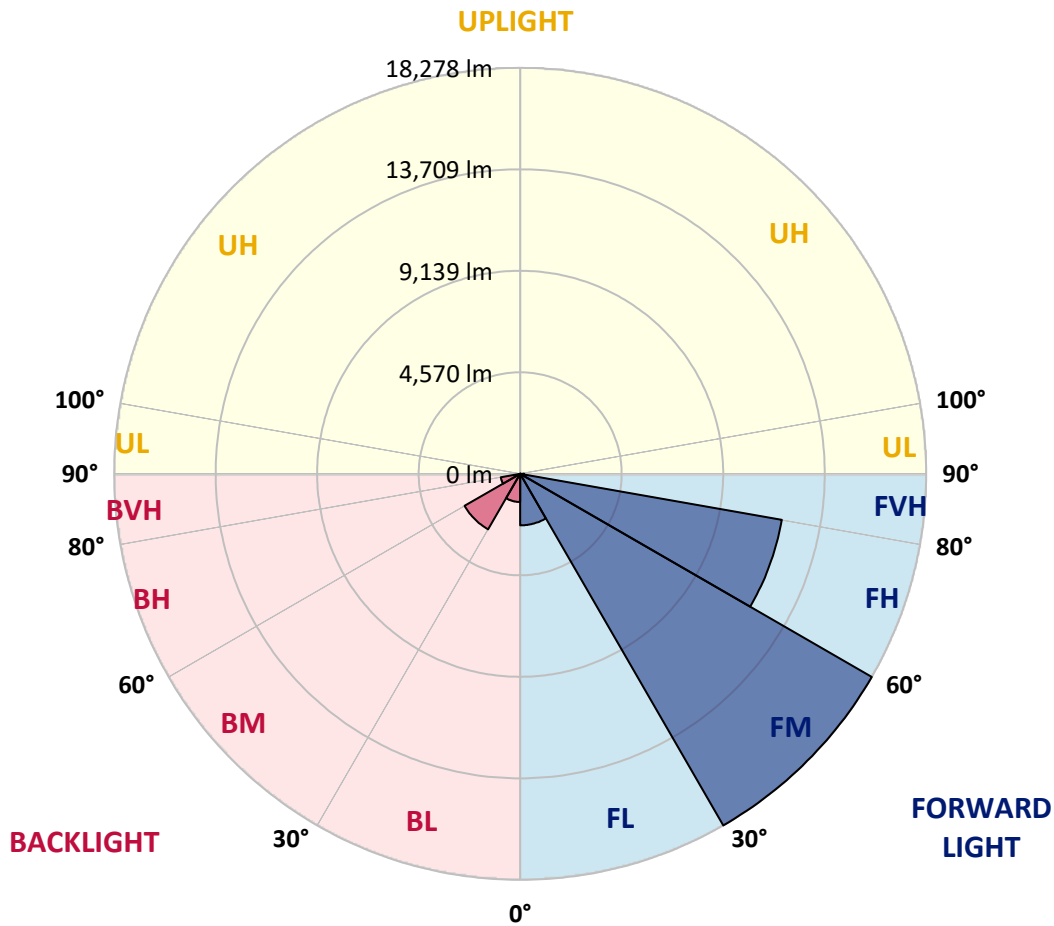
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2320.2	6.1			
FM (30°-60°)	18278.4	48.4			
FH (60°-80°)	11960.6	31.7			G4/12000
FVH (80°-90°)	169.3	0.4			G2/225
BL (0°-30°)	1268.5	3.4	B3/2500		
BM (30°-60°)	2888.5	7.6	B3/5000		
BH (60°-80°)	886.8	2.3	B2/1000		G2/1000
BVH (80°-90°)	8.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	4394.3	4394.3	4394.3	4394.3	4394.3	4394.3	4394.3	4394.3	4394.3	4394.3
2.5°	4379.1	4409.5	4401.9	4394.3	4391.8	4396.9	4399.4	4396.9	4396.9	4396.9
5°	4295.5	4320.9	4320.9	4338.6	4363.9	4394.3	4417.1	4422.2	4427.2	4434.8
7.5°	4136.0	4156.2	4171.4	4229.7	4293.0	4374.1	4442.4	4477.9	4483.0	4510.8
10°	4027.1	4052.4	4077.7	4138.5	4229.7	4351.3	4467.8	4553.9	4566.5	4632.4
12.5°	4022.0	4047.3	4080.3	4146.1	4252.5	4381.7	4523.5	4647.6	4670.4	4766.6
15°	4075.2	4105.6	4136.0	4217.0	4331.0	4488.0	4640.0	4794.5	4817.3	4954.1
17.5°	4184.1	4224.6	4247.4	4328.5	4450.0	4624.8	4824.9	5002.2	5022.4	5182.0
20°	4399.4	4447.5	4455.1	4521.0	4640.0	4827.4	5065.5	5285.9	5311.2	5493.5
22.5°	4845.2	4913.5	4852.8	4885.7	4992.1	5179.5	5437.8	5716.4	5751.9	5959.6
25°	5630.3	5726.5	5569.5	5513.8	5559.4	5754.4	6078.6	6430.7	6471.2	6638.3
27.5°	7172.8	7048.6	6810.6	6577.6	6440.8	6552.2	6916.9	7352.6	7403.2	7565.3
30°	8867.2	8758.3	8436.6	7919.9	7595.7	7578.0	7914.8	8401.1	8459.4	8613.9
32.5°	10564.1	10460.3	10110.7	9475.0	8912.8	8634.1	8867.2	9406.6	9437.0	9535.8
35°	12233.2	12126.8	11777.3	11126.4	10434.9	9801.7	9756.2	10364.0	10374.1	10478.0
37.5°	13912.4	13823.8	13451.4	12813.2	12131.9	11258.1	10835.1	11270.7	11283.4	11384.7
40°	15110.4	15148.4	14892.6	14398.7	13813.6	12858.8	12045.8	12235.7	12159.7	12329.4
42.5°	16138.7	16214.7	15991.8	15743.6	15404.2	14563.3	13545.2	13512.2	13390.7	13481.8
45°	17027.7	17091.0	16890.9	16832.7	16825.1	16234.9	15183.8	14986.3	14816.6	14798.9
47.5°	17354.4	17476.0	17562.1	17757.1	18137.0	17888.8	16878.3	16571.8	16381.8	16242.5
50°	17478.5	17607.7	17901.5	18468.8	19367.9	19474.3	18565.1	18220.6	17987.6	17734.3
52.5°	17311.4	17541.8	17936.9	18891.8	20196.2	20745.8	20183.5	19882.1	19616.2	19203.3
55°	16326.1	16556.6	17364.5	18886.7	20609.0	21637.3	21713.3	21579.0	21280.2	20629.3
57.5°	14249.3	14591.2	15870.2	18243.4	20601.4	22404.7	23212.7	23308.9	22974.6	22042.5
60°	11372.1	11835.5	13395.7	16817.5	19965.7	22820.1	24527.2	25008.4	24653.8	23435.5
62.5°	7935.1	8472.1	9948.6	14583.6	18511.9	22521.2	25487.1	26376.1	26107.6	24681.7
65°	4840.1	5012.3	6202.7	11475.9	16039.9	21270.0	25783.4	27115.6	27027.0	25444.0
67.5°	3224.2	3368.6	3710.5	7869.3	12451.0	18770.2	25074.2	26986.5	27011.8	25319.9
70°	1942.6	2066.7	2289.6	4576.7	8069.3	14857.1	22878.3	25340.2	25487.1	23661.0
72.5°	800.3	883.9	1086.6	2074.3	4179.0	9429.4	18218.1	21756.3	22098.3	19894.8
75°	453.4	496.4	638.3	1041.0	1813.4	4394.3	11035.2	15444.7	15948.7	13712.3
77.5°	301.4	321.7	412.8	673.7	1020.7	1499.4	4716.0	8046.5	9009.0	7489.3
80°	202.6	220.3	283.7	450.8	663.6	643.3	1501.9	2981.0	3667.4	2573.3
82.5°	136.8	139.3	202.6	296.3	420.4	311.5	443.2	927.0	1165.1	744.6
85°	78.5	76.0	149.4	172.2	187.4	129.2	134.2	278.6	364.7	314.1
87.5°	10.1	15.2	58.3	45.6	25.3	27.9	27.9	48.1	70.9	76.0
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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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4394.3	0°	4394.3	4394.3	4394.3	4394.3	4394.3	4394.3	4394.3	4394.3	4394.3	4394.3
4399.4	2.5°	4399.4	4396.9	4389.3	4381.7	4363.9	4353.8	4358.9	4353.8	4351.3	4353.8
4432.3	5°	4432.3	4424.7	4404.5	4379.1	4343.7	4300.6	4272.8	4232.2	4194.2	4171.4
4521.0	7.5°	4521.0	4513.4	4485.5	4414.6	4300.6	4120.8	3956.2	3811.8	3702.9	3639.6
4662.8	10°	4662.8	4650.1	4607.1	4450.0	4151.2	3758.6	3431.9	3160.9	2983.6	2900.0
4830.0	12.5°	4830.0	4814.8	4738.8	4417.1	3867.5	3254.6	2803.8	2502.4	2337.7	2264.3
5022.4	15°	5027.5	5007.2	4857.8	4260.1	3454.7	2697.4	2284.5	2059.1	1952.8	1886.9
5268.1	17.5°	5273.2	5237.7	4946.5	4024.5	3006.4	2271.9	1965.4	1795.7	1702.0	1638.7
5589.8	20°	5592.3	5534.1	5017.4	3743.4	2593.5	2003.4	1750.1	1608.3	1537.4	1481.7
6045.7	22.5°	6038.1	5954.5	5103.5	3439.5	2302.3	1818.5	1590.6	1486.7	1428.5	1365.2
6681.4	25°	6590.2	6491.4	5209.9	3158.3	2102.2	1659.0	1474.1	1387.9	1319.6	1246.1
7514.7	27.5°	7362.7	7185.4	5336.5	2927.9	1930.0	1522.2	1367.7	1271.4	1192.9	1132.1
8459.4	30°	8223.8	7932.6	5447.9	2788.6	1772.9	1395.5	1228.4	1132.1	1058.7	1015.6
9307.9	32.5°	9039.4	8644.3	5521.4	2727.8	1631.1	1251.2	1076.4	972.6	916.9	904.2
10138.6	35°	9809.3	9287.6	5513.8	2669.5	1504.5	1106.8	927.0	820.6	777.6	785.2
11032.7	37.5°	10695.8	9974.0	5460.6	2578.3	1400.6	975.1	797.8	704.1	666.1	668.6
12119.2	40°	11726.6	10766.7	5427.7	2406.1	1286.6	853.5	691.4	615.5	587.6	577.5
13264.0	42.5°	12825.8	11534.1	5432.8	2211.1	1144.8	744.6	618.0	554.7	529.3	521.7
14538.0	45°	13930.1	12266.1	5440.3	2008.5	995.4	661.0	564.8	511.6	496.4	486.3
15829.7	47.5°	14968.6	12889.2	5298.5	1790.7	848.5	597.7	521.7	486.3	473.6	461.0
17126.5	50°	15936.1	13304.5	4956.6	1537.4	732.0	547.1	488.8	463.5	450.8	438.2
18301.7	52.5°	16688.3	13370.4	4391.8	1276.5	650.9	509.1	468.6	445.8	430.6	417.9
19251.4	55°	17022.6	12957.6	3588.9	1033.4	587.6	476.2	448.3	425.5	407.8	395.1
19998.6	57.5°	16936.5	12088.8	2798.7	830.7	526.8	443.2	423.0	407.8	387.5	367.2
20603.9	60°	16513.5	10926.3	2109.8	691.4	471.1	407.8	395.1	382.4	354.6	324.2
20836.9	62.5°	15781.6	9464.9	1504.5	572.4	410.3	367.2	362.2	352.1	311.5	255.8
20492.5	65°	14662.1	7689.4	1013.1	476.2	352.1	321.7	324.2	306.5	253.3	190.0
19231.2	67.5°	13025.9	5622.7	648.4	390.0	293.8	268.5	271.0	260.9	215.3	162.1
16840.3	70°	10941.5	3723.1	423.0	296.3	235.5	207.7	222.9	225.4	182.4	131.7
12924.6	72.5°	8021.2	2198.4	296.3	220.3	172.2	144.4	182.4	187.4	146.9	98.8
7775.5	75°	4571.6	1043.5	222.9	159.6	106.4	101.3	141.8	141.8	101.3	65.9
3366.0	77.5°	1919.8	435.6	157.0	103.8	60.8	58.3	96.2	88.6	50.7	30.4
820.6	80°	554.7	195.0	83.6	50.7	25.3	22.8	38.0	27.9	12.7	5.1
311.5	82.5°	217.8	86.1	32.9	20.3	10.1	10.1	5.1	0.0	0.0	0.0
177.3	85°	129.2	35.5	15.2	7.6	2.5	0.0	0.0	0.0	0.0	0.0
38.0	87.5°	32.9	7.6	5.1	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>
4394.3
4363.9
4176.5
3642.1
2892.4
2256.7
1889.4
1633.6
1471.5
1355.0
1238.5
1119.5
1008.0
911.8
785.2
678.8
574.9
519.2
486.3
461.0
438.2
415.4
392.6
364.7
319.1
250.7
184.9
154.5
126.6
93.7
60.8
30.4
5.1
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