

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: P944608

Luminaire Tested: **GALN-SB9C-850-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944608  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9C-850-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

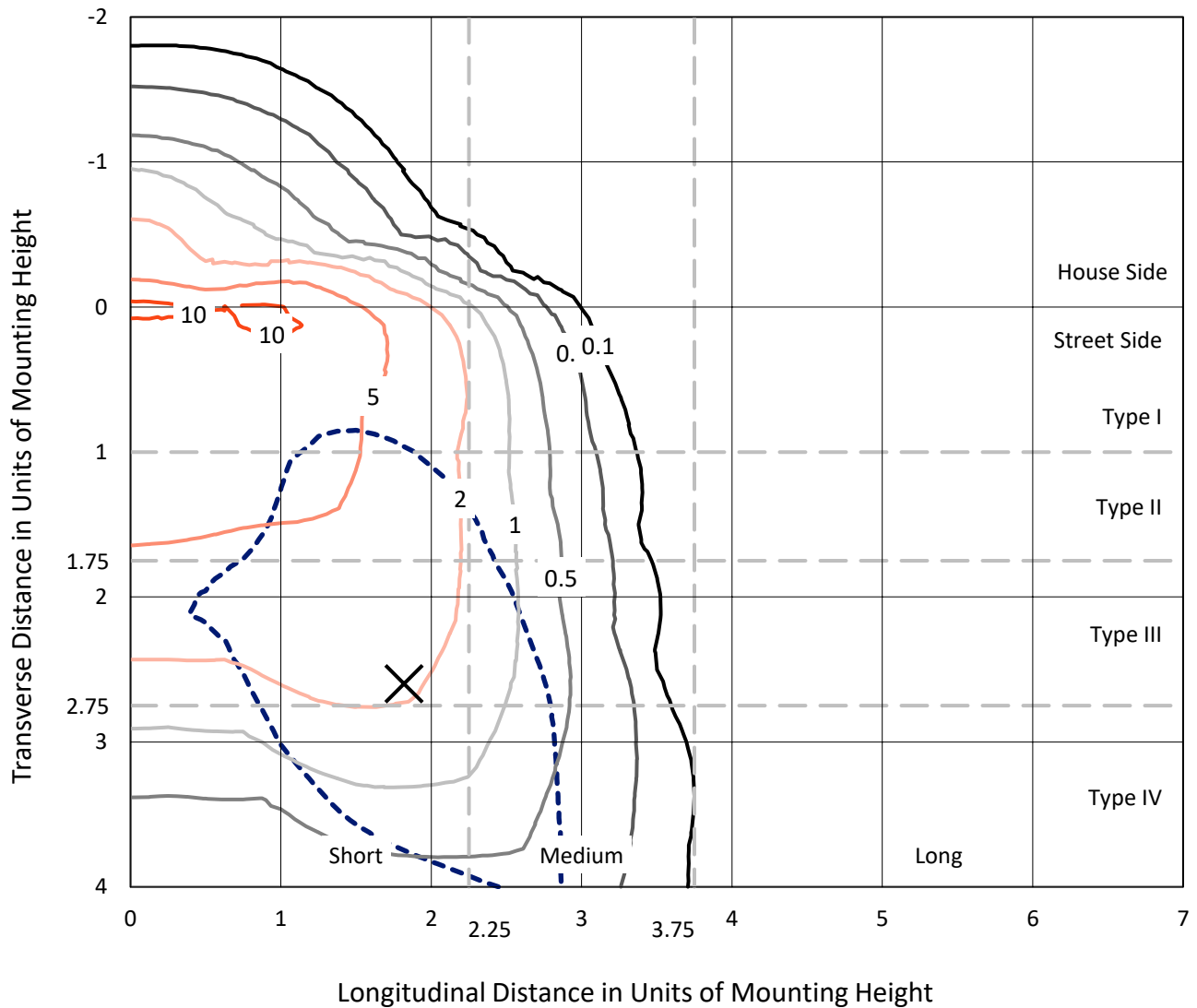
Lumens per Lamp: N/A  
Luminaire Lumens: 49402 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

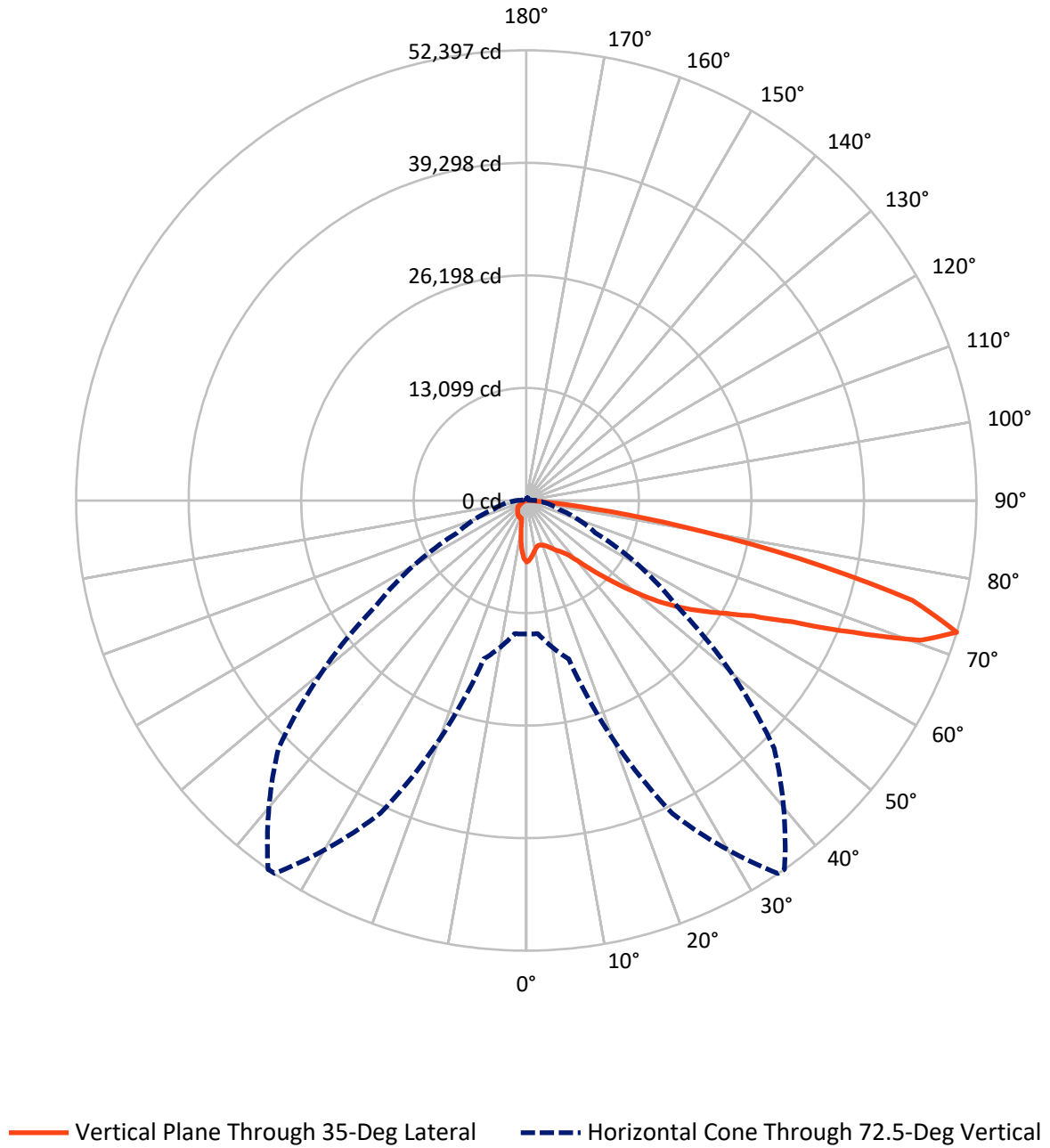
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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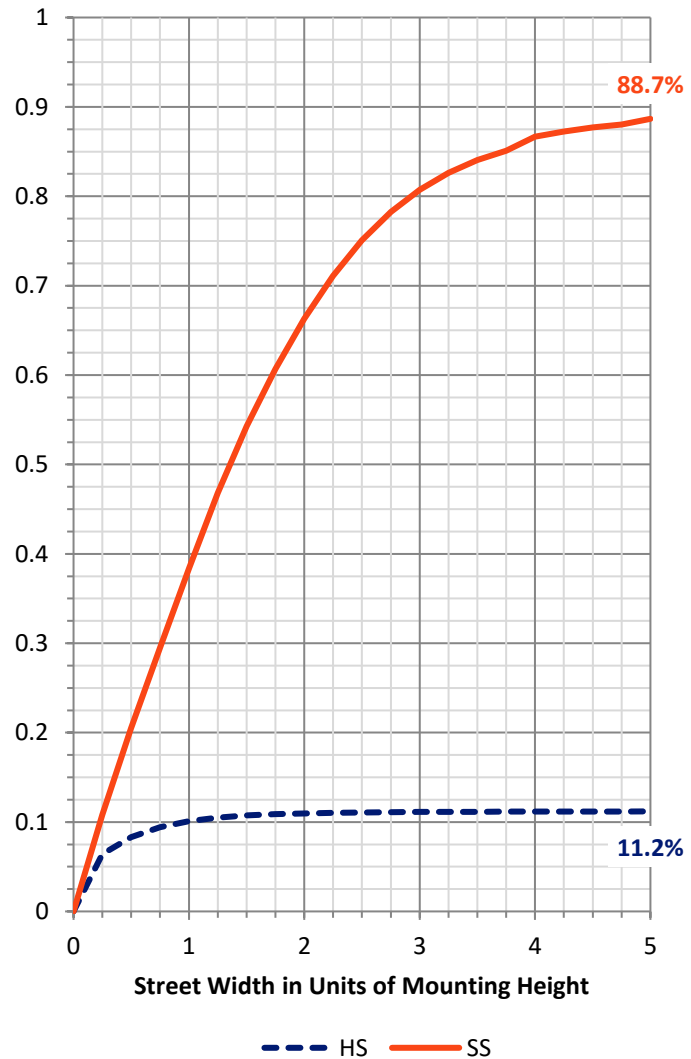
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5560.0	0.0	5560.0
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	43842.0	0.0	43842.0
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	49402.0	0.0	49402.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	588.4	1.2
10°-20°	1376.4	2.8
20°-30°	2235.9	4.5
30°-40°	3730.6	7.6
40°-50°	7058.4	14.3
50°-60°	11215.8	22.7
60°-70°	13874.8	28.1
70°-80°	8624.6	17.5
80°-90°	697.0	1.4
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°	49402.0	100.0
0°-180°	49402.0	100.0



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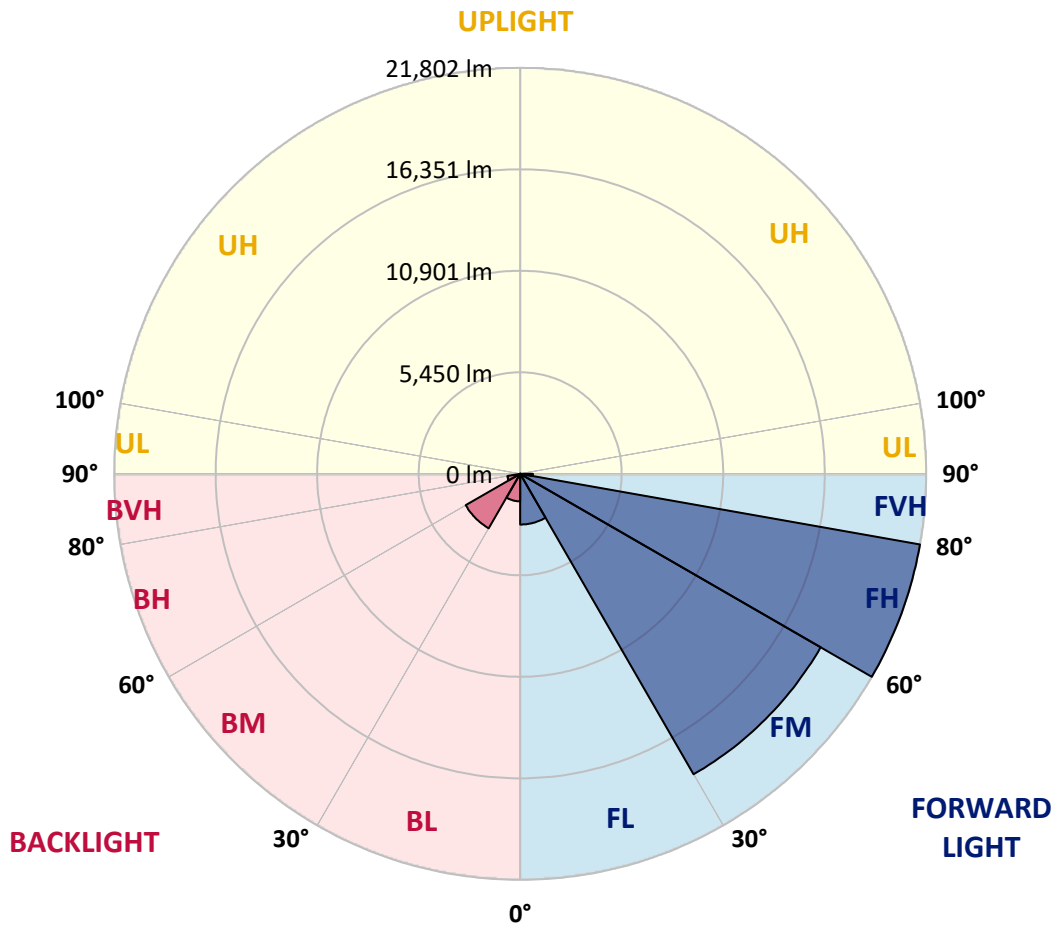
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2723.3	5.5			
FM (30°-60°)	18629.5	37.7			
FH (60°-80°)	21801.7	44.1			G5
FVH (80°-90°)	687.5	1.4			G4/750
BL (0°-30°)	1477.4	3.0	B3/2500		
BM (30°-60°)	3375.4	6.8	B3/5000		
BH (60°-80°)	697.7	1.4	B2/1000		G2/1000
BVH (80°-90°)	9.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	7160.0	7160.0	7160.0	7160.0	7160.0	7160.0	7160.0	7160.0	7160.0	7160.0
2.5°	6841.5	6899.4	6910.2	6928.3	6928.3	6950.1	6986.3	7036.9	7120.2	7163.6
5°	6305.7	6349.2	6403.5	6446.9	6530.2	6541.0	6682.2	6819.7	7011.6	7156.4
7.5°	5766.4	5817.1	5889.4	5994.4	6103.0	6135.6	6349.2	6580.8	6884.9	7156.4
10°	5386.3	5389.9	5455.1	5560.0	5733.8	5773.6	6034.2	6363.6	6743.7	7112.9
12.5°	5172.7	5198.1	5227.0	5306.7	5473.2	5498.5	5777.2	6164.6	6602.6	7087.6
15°	5172.7	5190.8	5208.9	5248.7	5382.7	5404.4	5650.5	6037.9	6530.2	7098.5
17.5°	5227.0	5256.0	5241.5	5288.6	5429.7	5444.2	5661.4	6001.7	6526.5	7167.2
20°	5357.3	5379.1	5350.1	5379.1	5520.2	5549.2	5773.6	6070.4	6588.1	7286.7
22.5°	5563.7	5574.5	5505.7	5527.5	5672.3	5708.5	5969.1	6265.9	6736.5	7478.6
25°	5824.3	5846.0	5741.0	5766.4	5903.9	5947.4	6247.8	6559.1	6971.8	7742.8
27.5°	6124.7	6135.6	6045.1	6041.5	6218.9	6280.4	6584.5	6921.1	7286.7	8075.8
30°	6468.6	6501.2	6414.3	6399.8	6624.3	6675.0	6975.4	7366.3	7750.0	8575.4
32.5°	6740.1	6765.4	6714.8	6751.0	6979.0	7018.8	7449.6	7996.2	8477.6	9284.8
35°	7131.0	7145.5	7029.7	7094.8	7355.5	7456.8	8097.5	8879.4	9393.4	10175.3
37.5°	8546.4	8546.4	8054.1	7731.9	7981.7	8072.2	8984.4	9990.7	10522.8	11369.9
40°	10504.7	10472.1	9751.8	9093.0	9060.4	9237.8	10247.7	11391.6	11981.6	12803.3
42.5°	12593.4	12542.7	11561.7	10910.1	10801.5	10863.1	11706.5	13118.2	13719.1	14551.7
45°	14446.7	14432.2	13534.5	12658.5	12463.0	12658.5	13527.3	15138.1	15568.9	16444.8
47.5°	15999.6	15999.6	15344.4	14772.5	14671.1	14787.0	15992.4	17378.8	17338.9	18461.1
50°	17787.8	17773.3	17150.7	16904.6	17009.5	17172.4	18830.3	19738.9	19170.6	20441.1
52.5°	19040.3	19127.1	18913.6	18873.7	19409.5	19691.8	21711.7	22048.3	20810.4	22319.8
55°	20032.1	20133.4	20379.6	20658.3	21690.0	22059.2	24502.6	24238.3	22182.3	23948.7
57.5°	21436.6	21291.8	21671.9	22222.1	23890.8	24336.1	27206.6	26305.2	23286.3	25270.0
60°	23141.5	23163.2	23228.4	23923.4	26088.1	26660.0	29870.8	28259.9	23995.8	26080.8
62.5°	25190.3	25222.9	25356.8	26424.7	29038.2	29577.6	32708.7	29859.9	24321.6	25852.8
65°	25049.2	25186.7	26681.7	30334.1	33523.2	34055.3	36020.8	30982.0	23829.3	23767.7
67.5°	22819.4	23043.8	25545.1	35003.7	40285.0	40878.6	40024.4	31202.9	21704.4	18482.8
70°	19894.5	19974.2	22982.2	39202.7	48114.7	48715.6	43608.0	28774.0	16470.2	10309.3
72.5°	15536.3	15554.4	19083.7	40176.4	52364.3	52396.9	40795.4	21360.6	8857.7	3960.1
75°	11098.4	10989.8	12781.6	32582.0	46069.5	46438.7	30583.9	10019.7	3384.5	1871.4
77.5°	5951.0	6070.4	7232.4	19322.6	31825.5	32455.3	16687.4	2888.6	1723.0	1274.2
80°	1838.9	1940.2	2964.6	8846.8	18026.7	18406.8	6186.3	1285.0	1201.8	908.6
82.5°	579.2	600.9	1382.8	3717.6	7482.2	7655.9	1791.8	727.6	821.7	600.9
85°	166.5	170.1	615.4	1386.4	1849.7	1885.9	503.2	282.3	470.6	372.8
87.5°	18.1	57.9	231.7	231.7	162.9	159.3	54.3	61.5	133.9	47.1
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°
7160.0	0°	7160.0	7160.0	7160.0	7160.0	7160.0	7160.0	7160.0	7160.0	7160.0	7160.0
7192.6	2.5°	7174.5	7178.1	7131.0	7051.4	6964.5	6892.1	6801.6	6729.2	6678.6	6664.1
7257.7	5°	7225.2	7199.8	7065.9	6823.4	6533.8	6284.0	6005.3	5784.5	5639.7	5578.1
7326.5	7.5°	7301.2	7228.8	6935.6	6457.8	5903.9	5411.6	4912.1	4524.8	4278.6	4155.6
7391.7	10°	7366.3	7221.5	6718.4	5929.3	5082.2	4336.5	3663.3	3196.3	2935.7	2812.6
7467.7	12.5°	7427.9	7217.9	6436.0	5303.0	4155.6	3243.4	2617.1	2385.5	2313.1	2287.7
7590.8	15°	7543.7	7228.8	6081.3	4586.3	3232.5	2450.6	2222.6	2219.0	2233.4	2226.2
7779.0	17.5°	7703.0	7239.6	5679.5	3826.2	2494.1	2161.0	2150.2	2182.8	2204.5	2193.6
8014.3	20°	7909.3	7283.1	5252.4	3073.2	2142.9	2088.6	2114.0	2142.9	2161.0	2142.9
8329.2	22.5°	8198.9	7359.1	4785.4	2468.7	2030.7	2045.2	2066.9	2099.5	2117.6	2092.3
8731.0	25°	8553.6	7478.6	4325.7	2146.6	1976.4	1994.5	2027.1	2063.3	2085.0	2059.7
9237.8	27.5°	9013.4	7670.4	3902.2	2074.2	1922.1	1933.0	1980.0	2034.3	2063.3	2030.7
9958.1	30°	9679.4	7985.3	3536.6	2106.7	1889.5	1864.2	1929.4	2005.4	2038.0	2009.0
10939.1	32.5°	10562.6	8430.6	3312.1	2157.4	1875.1	1784.6	1846.1	1943.8	1998.1	1980.0
12220.5	35°	11721.0	9107.5	3225.3	2215.3	1864.2	1701.3	1744.8	1849.7	1943.8	1961.9
13835.0	37.5°	13125.5	10048.6	3250.6	2240.7	1831.6	1632.5	1654.3	1744.8	1867.8	1925.7
15652.1	40°	14721.8	11145.4	3395.4	2215.3	1795.4	1574.6	1578.2	1647.0	1755.6	1842.5
17606.8	42.5°	16368.8	12426.8	3663.3	2121.2	1762.9	1523.9	1513.1	1560.1	1632.5	1694.1
19557.9	45°	17936.2	13744.5	3927.5	1990.9	1723.0	1473.3	1447.9	1466.0	1480.5	1505.8
21458.3	47.5°	19304.5	14671.1	3851.5	1871.4	1668.7	1415.4	1371.9	1364.7	1321.2	1317.6
23156.0	50°	20249.3	14873.8	3420.7	1752.0	1589.1	1350.2	1281.4	1238.0	1162.0	1125.8
24426.6	52.5°	20549.7	14073.9	2794.5	1632.5	1458.8	1263.3	1165.6	1096.8	1002.7	970.1
25157.8	55°	20151.5	12506.5	2233.4	1487.7	1277.8	1147.5	1038.9	948.4	872.4	832.6
25237.4	57.5°	19177.8	10512.0	1766.5	1317.6	1085.9	1017.2	908.6	818.1	752.9	713.1
24354.2	60°	17563.4	8347.3	1397.3	1114.9	926.7	876.0	763.8	705.9	647.9	600.9
22073.7	62.5°	15112.8	5958.2	1096.8	883.2	774.6	716.7	651.6	608.1	539.4	474.2
17972.4	65°	11793.4	3645.2	847.0	647.9	622.6	593.7	553.8	514.0	430.8	365.6
11724.6	67.5°	7438.7	1726.7	604.5	488.7	492.3	477.8	459.7	427.1	365.6	307.7
5252.4	70°	3275.9	836.2	398.2	372.8	365.6	365.6	380.1	369.2	311.3	257.0
1824.4	72.5°	1114.9	448.9	296.8	282.3	264.2	260.6	318.5	307.7	249.8	199.1
908.6	75°	582.8	300.4	217.2	202.7	159.3	191.9	253.4	238.9	177.4	130.3
600.9	77.5°	380.1	213.6	148.4	130.3	90.5	126.7	188.2	166.5	105.0	65.2
394.6	80°	238.9	141.2	86.9	61.5	43.4	68.8	101.4	72.4	39.8	14.5
231.7	82.5°	126.7	72.4	32.6	21.7	18.1	21.7	25.3	18.1	7.2	0.0
119.5	85°	50.7	25.3	10.9	7.2	3.6	0.0	7.2	3.6	0.0	0.0
21.7	87.5°	18.1	3.6	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

(END O

<u>180°</u>
7160.0
6689.4
5599.9
4173.7
2816.2
2280.5
2222.6
2190.0
2139.3
2088.6
2056.1
2030.7
2005.4
1980.0
1961.9
1940.2
1871.4
1719.4
1520.3
1314.0
1129.4
966.5
832.6
705.9
590.0
463.3
354.7
300.4
246.1
188.2
119.5
57.9
10.9
0.0
0.0
0.0
0.0

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