

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: P944542

Luminaire Tested: **GALN-SB9C-750-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944542
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-750-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 71538 lumens
Efficiency: N/A
Efficacy: 159.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

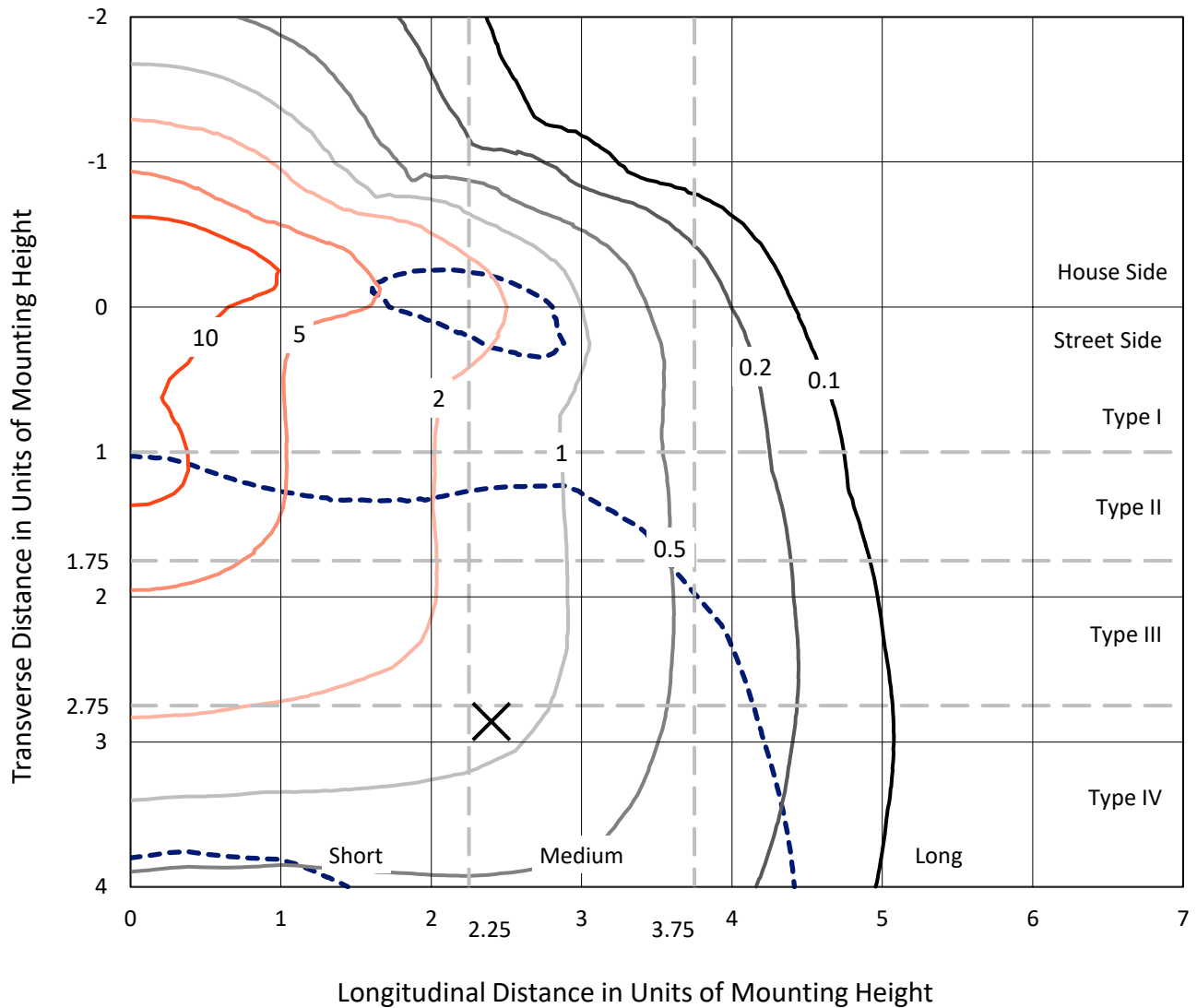
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

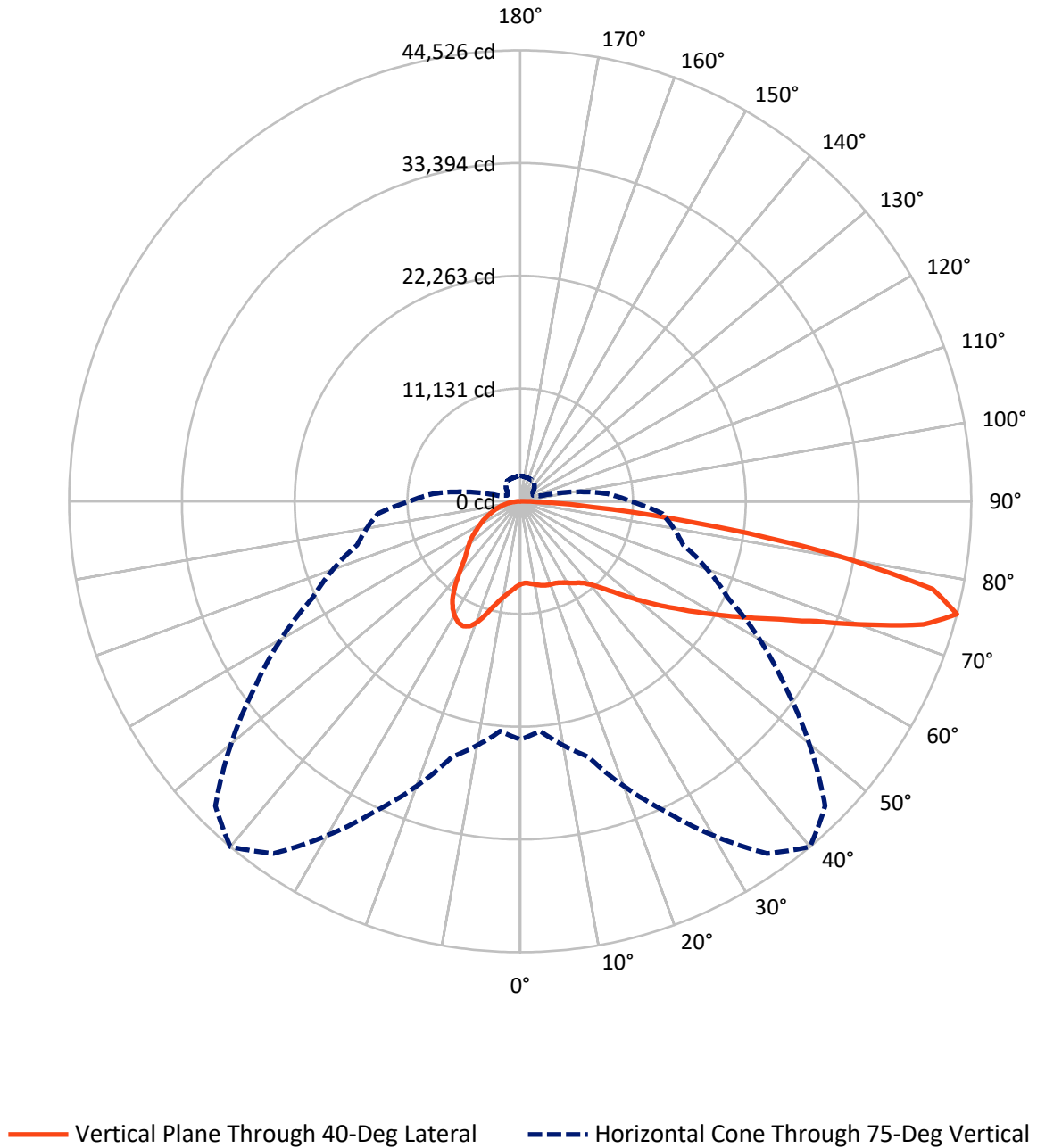
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22164.9	0.0	22164.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	49373.1	0.0	49373.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	71538.0	0.0	71538.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	816.6	1.1
10°-20°	2741.6	3.8
20°-30°	5005.9	7.0
30°-40°	7099.8	9.9
40°-50°	9586.8	13.4
50°-60°	12896.8	18.0
60°-70°	16369.1	22.9
70°-80°	14855.9	20.8
80°-90°	2165.5	3.0
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°	71538.0	100.0
0°-180°	71538.0	100.0

Coefficient of Utilization

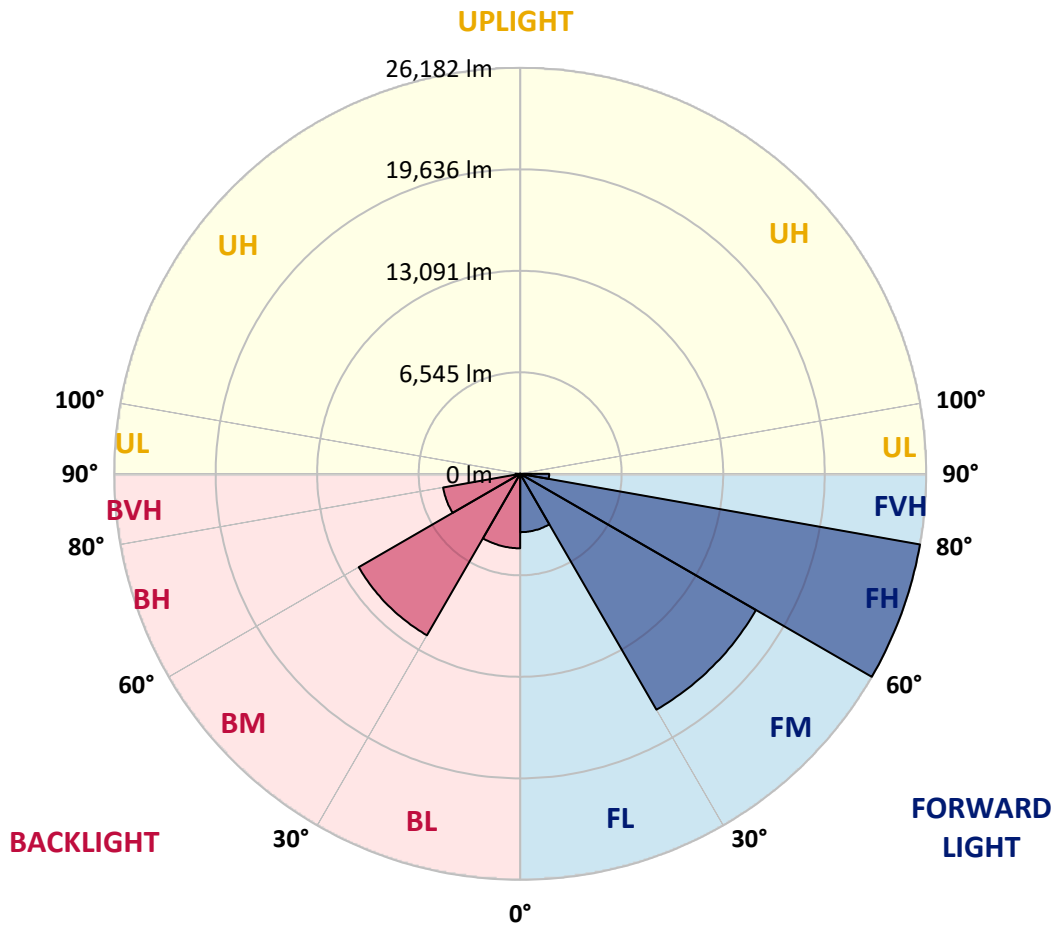


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3763.0	5.3			
FM (30°-60°)	17561.0	24.5			
FH (60°-80°)	26181.8	36.6			G5
FVH (80°-90°)	1867.4	2.6			G5
BL (0°-30°)	4801.1	6.7	B4/5000		
BM (30°-60°)	12022.4	16.8	B5		
BH (60°-80°)	5043.2	7.0	B5		G5
BVH (80°-90°)	298.1	0.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	8180.5	8180.5	8180.5	8180.5	8180.5	8180.5	8180.5	8180.5	8180.5	8180.5
2.5°	8055.3	8100.8	8089.4	8074.2	8074.2	8078.0	8074.2	8100.8	8127.3	8153.9
5°	8138.7	8184.3	8161.5	8142.5	8127.3	8123.6	8112.2	8108.4	8123.6	8157.7
7.5°	8301.9	8347.4	8313.3	8279.1	8248.8	8233.6	8218.4	8195.6	8184.3	8203.2
10°	8484.0	8529.5	8487.8	8427.1	8377.8	8358.8	8343.6	8320.9	8305.7	8317.1
12.5°	8666.1	8711.7	8654.8	8571.3	8506.8	8495.4	8476.4	8468.8	8465.0	8461.2
15°	8836.9	8874.8	8802.7	8704.1	8635.8	8616.8	8597.8	8609.2	8628.2	8651.0
17.5°	8969.7	9007.6	8901.4	8772.4	8707.9	8700.3	8688.9	8726.8	8780.0	8836.9
20°	9091.1	9129.0	8992.4	8817.9	8742.0	8742.0	8745.8	8825.5	8901.4	8984.9
22.5°	9261.8	9292.2	9125.2	8886.2	8776.2	8783.8	8814.1	8893.8	8988.6	9102.5
25°	9516.1	9538.8	9333.9	9015.2	8890.0	8912.8	8939.3	8977.3	9068.3	9201.1
27.5°	9925.8	9944.8	9675.4	9242.9	9053.1	9091.1	9129.0	9102.5	9144.2	9258.0
30°	10502.6	10513.9	10172.5	9599.5	9330.1	9349.1	9356.7	9246.7	9167.0	9258.0
32.5°	11185.5	11181.7	10775.8	10032.1	9645.1	9626.1	9561.6	9345.3	9159.4	9239.1
35°	12244.1	12202.4	11678.8	10639.2	10001.7	9884.1	9732.3	9455.3	9197.3	9220.1
37.5°	13997.1	13868.1	13143.4	11633.3	10532.9	10233.2	10009.3	9633.7	9280.8	9212.5
40°	15973.9	15810.8	15014.0	12995.4	11329.7	10847.8	10487.4	9887.9	9417.4	9246.7
42.5°	18318.8	18087.3	17229.8	14600.4	12339.0	11640.8	11098.3	10210.4	9618.5	9356.7
45°	21198.6	20891.3	19677.1	16410.3	13610.1	12680.5	11955.8	10699.9	9925.8	9569.2
47.5°	24108.8	24184.7	22458.3	18481.9	15135.4	13962.9	13029.6	11436.0	10373.6	9910.7
50°	27201.2	27254.3	25224.4	20777.5	16865.6	15412.4	14236.1	12259.3	10995.8	10396.3
52.5°	29614.3	29621.9	27736.2	23179.3	18667.9	17006.0	15537.6	13200.3	11716.7	11041.4
55°	31124.5	31105.5	29496.7	25452.0	20739.5	18679.2	16979.4	14270.3	12597.0	11800.2
57.5°	32221.0	32164.1	30710.9	27406.1	22947.8	20656.1	18610.9	15484.5	13636.6	12703.2
60°	32638.4	32604.2	31534.3	29094.5	25269.9	22841.6	20492.9	16842.8	14816.7	13769.4
62.5°	32797.7	32862.3	32342.4	30729.9	27755.2	25262.3	22560.8	18466.8	16144.7	14976.0
65°	33359.3	33476.9	33370.7	32869.8	30562.9	28096.6	25304.0	20398.0	17594.1	16269.9
67.5°	34471.0	34588.6	34634.2	35431.0	33992.9	31629.1	28726.5	22803.6	19290.1	17613.0
70°	34444.5	34410.3	35214.7	37468.5	38288.1	36519.9	33340.3	25763.2	21312.5	18728.6
72.5°	31352.1	31078.9	32979.9	37445.7	41862.3	41627.0	38974.8	29580.2	23057.8	18865.2
75°	23520.7	22792.2	26150.2	33746.3	42458.0	44525.9	42556.6	31947.8	22644.3	16668.3
77.5°	10058.6	9326.3	13283.8	24981.5	37999.7	41623.2	39270.8	27872.8	18075.9	11022.4
80°	2633.2	2629.4	4014.3	11325.9	25842.8	30737.5	26965.9	18000.1	10328.0	3938.5
82.5°	1089.0	1062.4	1476.0	4405.2	12627.4	17248.8	14076.8	8028.7	3729.8	1066.2
85°	406.0	402.2	717.1	1521.5	4454.5	7114.3	5148.8	2052.7	929.6	519.8
87.5°	113.8	110.0	155.6	527.4	1085.2	1646.7	880.3	337.7	261.8	204.9
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°
8180.5	0°	8180.5	8180.5	8180.5	8180.5	8180.5	8180.5	8180.5	8180.5	8180.5	8180.5
8195.6	2.5°	8207.0	8226.0	8260.1	8286.7	8320.9	8358.8	8411.9	8446.1	8480.2	8503.0
8214.6	5°	8241.2	8282.9	8370.2	8457.4	8559.9	8654.8	8764.8	8844.5	8909.0	8927.9
8282.9	7.5°	8317.1	8385.4	8533.3	8681.3	8844.5	9000.0	9159.4	9296.0	9406.0	9447.8
8404.3	10°	8449.9	8540.9	8749.6	8958.3	9174.6	9413.6	9618.5	9815.8	9971.4	10035.9
8548.5	12.5°	8616.8	8730.6	9003.8	9292.2	9591.9	9922.0	10187.6	10430.5	10624.0	10711.2
8749.6	15°	8833.1	8981.1	9330.1	9717.1	10157.3	10616.4	10954.1	11223.5	11439.8	11546.0
8958.3	17.5°	9068.3	9265.6	9705.8	10290.1	10919.9	11523.2	11917.8	12115.1	12339.0	12441.4
9151.8	20°	9296.0	9538.8	10168.7	11018.6	11857.1	12498.4	12817.1	12870.2	12885.4	12896.8
9333.9	22.5°	9531.2	9857.5	10749.2	11936.8	12836.0	13280.0	13325.5	13097.9	12779.1	12631.2
9512.3	25°	9789.2	10221.8	11508.0	12949.9	13678.4	13731.5	13382.4	12828.5	12225.2	11948.2
9656.4	27.5°	10039.7	10643.0	12418.7	13917.4	14285.5	13818.8	13067.5	12282.1	11553.6	11261.4
9758.9	30°	10290.1	11124.8	13424.2	14763.5	14562.4	13602.5	12570.4	11694.0	10961.7	10654.3
9849.9	32.5°	10544.3	11686.4	14581.4	15374.4	14513.1	13143.4	11952.0	11033.8	10388.7	10066.2
9929.6	35°	10832.7	12376.9	15678.0	15708.3	14183.0	12468.0	11136.2	10244.6	9683.0	9425.0
10024.5	37.5°	11208.3	13253.4	16645.5	15791.8	13606.3	11477.7	10123.1	9311.2	8848.3	8730.6
10164.9	40°	11675.0	14308.2	17385.4	15659.0	12752.6	10274.9	9015.2	8366.4	8104.6	8131.1
10354.6	42.5°	12282.1	15488.2	17905.2	15317.5	11565.0	9034.2	8043.9	7755.5	7880.7	7987.0
10639.2	45°	13071.3	16713.8	18227.7	14737.0	10221.8	7983.2	7470.9	7539.2	7634.1	7645.5
11098.3	47.5°	14080.6	17954.5	18440.2	13860.5	8852.1	7243.3	7106.7	7121.9	7102.9	7023.2
11785.0	50°	15340.3	19161.1	18629.9	12699.5	7687.2	6780.4	6598.3	6545.1	6283.3	6025.3
12699.5	52.5°	16774.5	20269.0	18709.6	11257.6	6780.4	6393.4	6097.4	5763.5	5274.0	5194.4
13849.1	55°	18368.1	21293.5	18504.7	9485.7	6017.7	5896.3	5448.6	5046.4	4993.3	4925.0
15363.0	57.5°	20272.8	22397.6	18087.3	7508.9	5236.1	5315.8	4879.4	4925.0	4830.1	4723.9
17309.5	60°	22355.9	23539.7	17355.0	5706.6	4427.9	4591.1	4731.5	4727.7	4701.1	4613.8
19362.2	62.5°	24230.3	24291.0	15913.2	4371.0	3718.4	4029.5	4412.7	4409.0	4386.2	4336.9
21506.0	65°	25345.8	24177.1	13507.6	3441.4	3134.1	3566.6	3980.2	4010.6	4014.3	4010.6
23118.5	67.5°	25148.5	22845.4	10206.6	2739.5	2652.2	3096.1	3551.4	3593.2	3623.5	3631.1
23323.4	70°	22917.4	19920.0	6655.2	2185.5	2223.4	2682.6	3145.5	3187.2	3213.8	3244.1
20238.7	72.5°	17863.5	14645.9	3809.5	1768.1	1847.8	2325.9	2743.3	2792.6	2807.8	2864.7
14084.4	75°	10885.8	8613.0	2056.5	1392.5	1517.7	1988.2	2344.9	2401.8	2428.3	2496.6
6917.0	77.5°	5175.4	3729.8	1172.4	1085.2	1221.8	1624.0	1980.6	2045.1	1973.0	2011.0
1908.5	80°	1749.2	1384.9	739.9	827.2	933.4	1267.3	1586.0	1650.5	1498.7	1491.2
633.6	82.5°	610.9	561.6	470.5	550.2	603.3	906.8	1199.0	1282.5	1115.5	1111.7
284.6	85°	239.0	227.7	261.8	299.7	360.5	557.8	789.2	830.9	686.8	554.0
83.5	87.5°	49.3	53.1	64.5	68.3	110.0	193.5	284.6	349.1	277.0	235.2
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>
8180.5
8487.8
8935.5
9451.5
10039.7
10711.2
11538.4
12437.6
12927.1
12672.9
11989.9
11295.6
10688.5
10108.0
9481.9
8814.1
8222.2
8085.6
7721.4
7083.9
6059.5
5220.9
4936.4
4704.9
4583.5
4317.9
4010.6
3638.7
3259.3
2887.4
2504.2
1980.6
1476.0
1058.6
546.4
216.3
0.0

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