

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: P944378

Luminaire Tested: **GALN-SB9B-750-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944378
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-SB9B-750-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 5000K, 450mA 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: 41085 lumens
Efficiency: N/A
Efficacy: 124.7 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

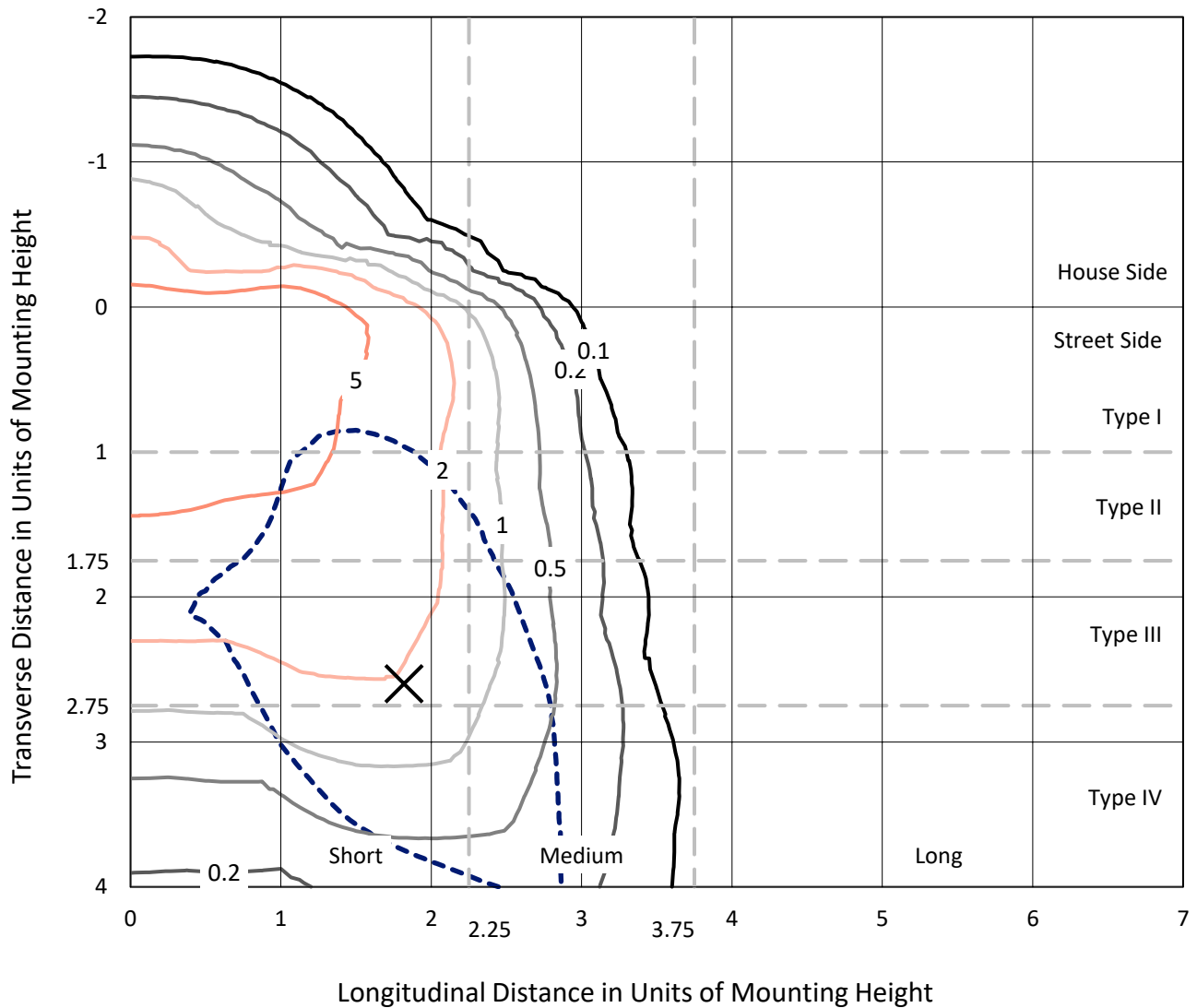
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

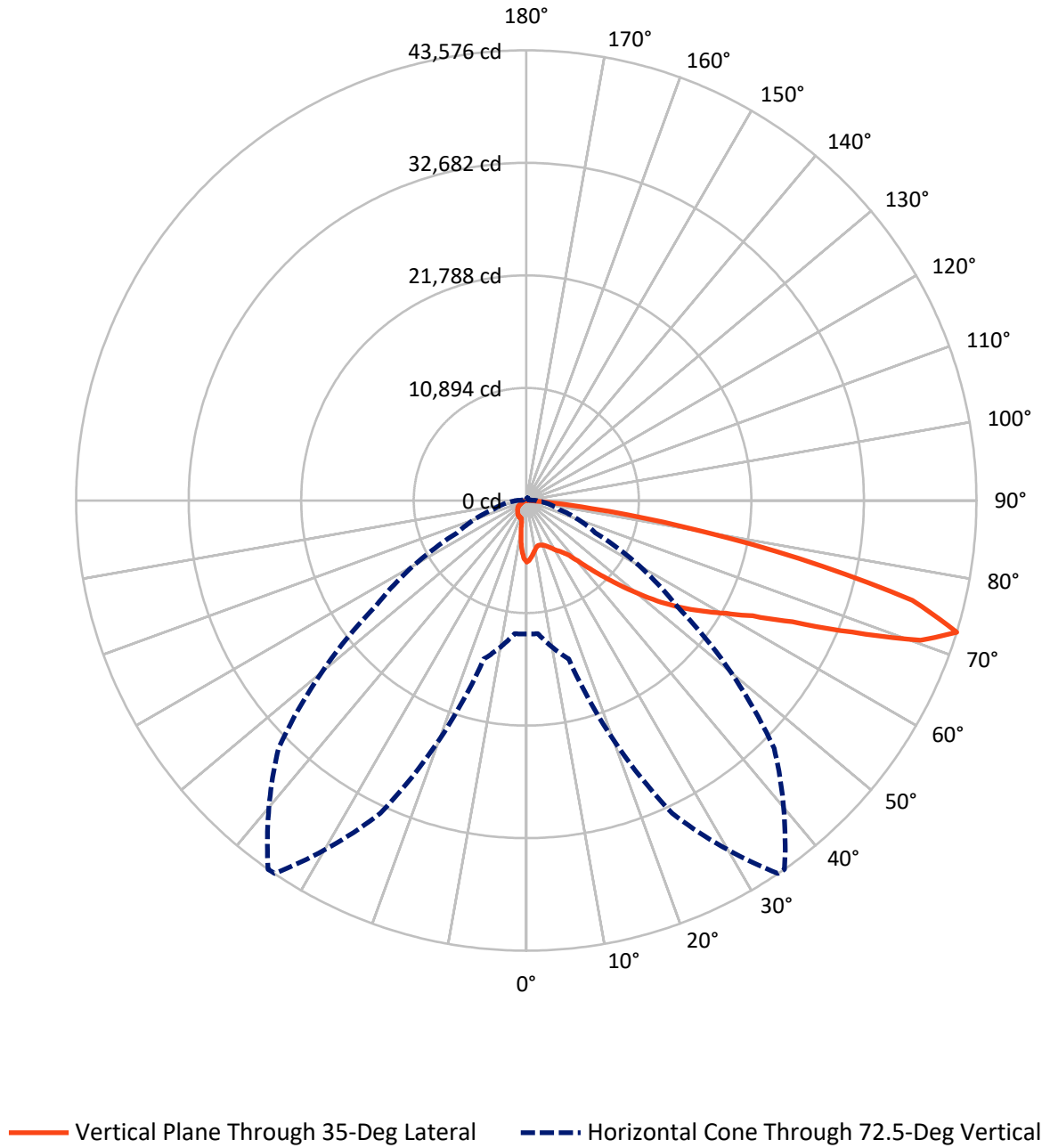
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4623.9	0.0	4623.9
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	36461.1	0.0	36461.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	41085.0	0.0	41085.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.3	1.2
10°-20°	1144.7	2.8
20°-30°	1859.5	4.5
30°-40°	3102.6	7.6
40°-50°	5870.1	14.3
50°-60°	9327.6	22.7
60°-70°	11538.9	28.1
70°-80°	7172.7	17.5
80°-90°	579.7	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°	41085.0	100.0
0°-180°	41085.0	100.0

Coefficient of Utilization



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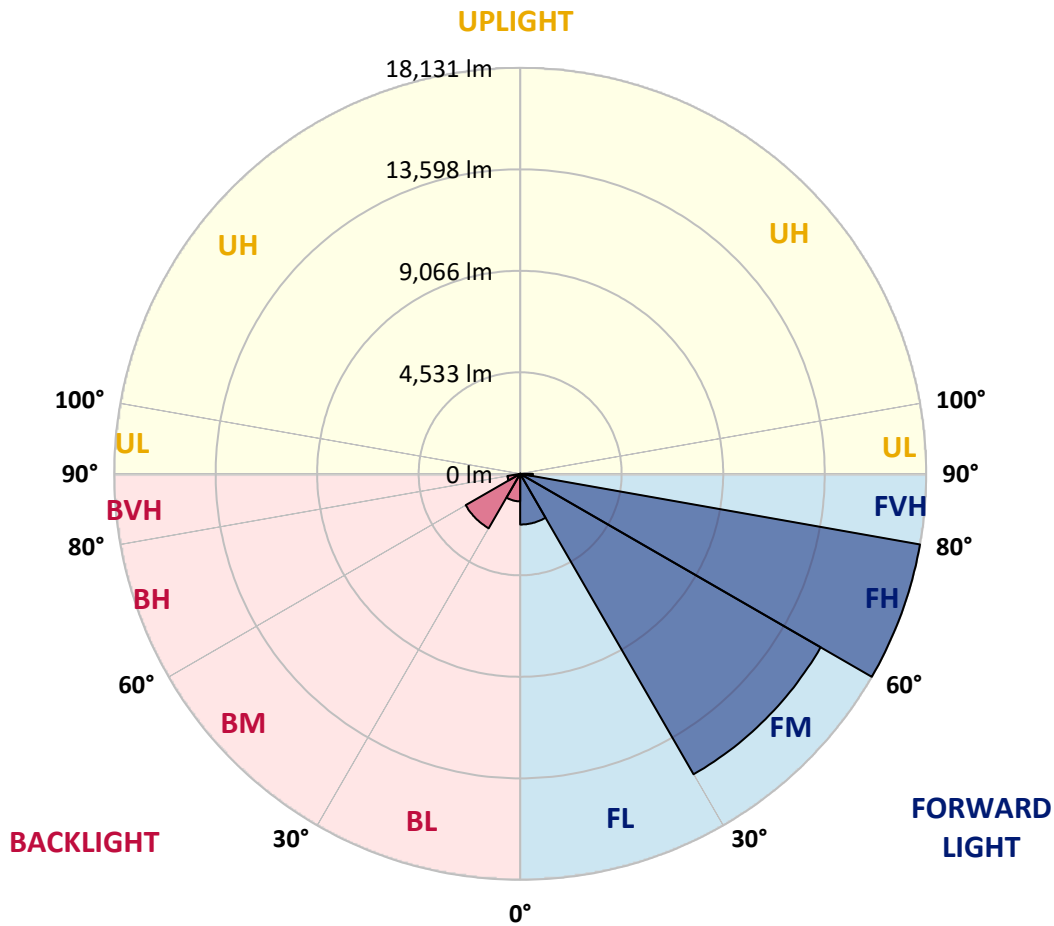
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2264.8	5.5			
FM (30°-60°)	15493.2	37.7			
FH (60°-80°)	18131.3	44.1			G5
FVH (80°-90°)	571.8	1.4			G4/750
BL (0°-30°)	1228.7	3.0	B3/2500		
BM (30°-60°)	2807.1	6.8	B3/5000		
BH (60°-80°)	580.2	1.4	B2/1000		G2/1000
BVH (80°-90°)	7.9	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°	5954.6	5954.6	5954.6	5954.6	5954.6	5954.6	5954.6	5954.6	5954.6	5954.6
2.5°	5689.7	5737.8	5746.9	5761.9	5761.9	5780.0	5810.1	5852.2	5921.5	5957.6
5°	5244.1	5280.3	5325.4	5361.5	5430.8	5439.8	5557.2	5671.6	5831.2	5951.6
7.5°	4795.6	4837.7	4897.9	4985.2	5075.6	5102.6	5280.3	5472.9	5725.8	5951.6
10°	4479.5	4482.5	4536.7	4624.0	4768.5	4801.6	5018.4	5292.3	5608.4	5915.5
12.5°	4301.9	4323.0	4347.0	4413.3	4551.7	4572.8	4804.6	5126.7	5491.0	5894.4
15°	4301.9	4316.9	4332.0	4365.1	4476.5	4494.5	4699.3	5021.4	5430.8	5903.4
17.5°	4347.0	4371.1	4359.1	4398.2	4515.6	4527.7	4708.3	4991.3	5427.8	5960.6
20°	4455.4	4473.5	4449.4	4473.5	4590.9	4615.0	4801.6	5048.5	5478.9	6060.0
22.5°	4627.0	4636.0	4578.8	4596.9	4717.3	4747.4	4964.2	5211.0	5602.4	6219.5
25°	4843.8	4861.8	4774.5	4795.6	4910.0	4946.1	5196.0	5454.9	5798.1	6439.3
27.5°	5093.6	5102.6	5027.4	5024.4	5171.9	5223.1	5475.9	5755.9	6060.0	6716.2
30°	5379.6	5406.7	5334.4	5322.4	5509.1	5551.2	5801.1	6126.2	6445.3	7131.7
32.5°	5605.4	5626.5	5584.3	5614.4	5804.1	5837.2	6195.4	6650.0	7050.4	7721.7
35°	5930.5	5942.6	5846.2	5900.4	6117.2	6201.4	6734.3	7384.5	7812.0	8462.3
37.5°	7107.6	7107.6	6698.2	6430.2	6638.0	6713.2	7471.8	8308.7	8751.3	9455.7
40°	8736.2	8709.1	8110.0	7562.2	7535.1	7682.6	8522.5	9473.8	9964.5	10647.8
42.5°	10473.2	10431.1	9615.3	9073.4	8983.1	9034.2	9735.7	10909.7	11409.5	12101.9
45°	12014.6	12002.5	11255.9	10527.4	10364.8	10527.4	11249.9	12589.5	12947.8	13676.3
47.5°	13306.0	13306.0	12761.1	12285.5	12201.2	12297.5	13300.0	14453.0	14419.9	15353.1
50°	14793.2	14781.1	14263.3	14058.6	14145.9	14281.4	15660.2	16415.8	15943.1	16999.8
52.5°	15834.8	15907.0	15729.4	15696.3	16141.8	16376.6	18056.4	18336.4	17306.9	18562.2
55°	16659.6	16743.9	16948.6	17180.4	18038.4	18345.4	20377.5	20157.7	18447.8	19916.9
57.5°	17827.7	17707.2	18023.3	18480.9	19868.7	20239.0	22626.3	21876.7	19366.0	21015.7
60°	19245.6	19263.6	19317.8	19895.8	21696.0	22171.7	24841.9	23502.3	19956.0	21690.0
62.5°	20949.5	20976.5	21087.9	21976.0	24149.5	24598.1	27202.1	24832.9	20227.0	21500.4
65°	20832.0	20946.4	22189.7	25227.2	27879.4	28322.0	29956.6	25766.1	19817.5	19766.4
67.5°	18977.6	19164.3	21244.5	29110.7	33502.9	33996.6	33286.1	25949.7	18050.4	15371.2
70°	16545.2	16611.5	19113.1	32602.8	40014.4	40514.1	36266.4	23929.8	13697.4	8573.7
72.5°	12920.7	12935.7	15870.9	33412.6	43548.6	43575.7	33927.3	17764.4	7366.5	3293.4
75°	9229.9	9139.6	10629.8	27096.7	38313.5	38620.6	25435.0	8332.8	2814.7	1556.4
77.5°	4949.1	5048.5	6014.8	16069.6	26467.5	26991.3	13878.0	2402.3	1433.0	1059.7
80°	1529.3	1613.6	2465.5	7357.4	14991.8	15307.9	5144.8	1068.7	999.5	755.6
82.5°	481.7	499.7	1150.0	3091.7	6222.5	6367.0	1490.2	605.1	683.4	499.7
85°	138.5	141.5	511.8	1153.0	1538.3	1568.4	418.4	234.8	391.4	310.1
87.5°	15.1	48.2	192.7	192.7	135.5	132.5	45.2	51.2	111.4	39.1
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°
5954.6	0°	5954.6	5954.6	5954.6	5954.6	5954.6	5954.6	5954.6	5954.6	5954.6	5954.6
5981.7	2.5°	5966.6	5969.6	5930.5	5864.3	5792.0	5731.8	5656.6	5596.4	5554.2	5542.2
6035.9	5°	6008.8	5987.7	5876.3	5674.6	5433.8	5226.1	4994.3	4810.6	4690.2	4639.0
6093.1	7.5°	6072.0	6011.8	5767.9	5370.6	4910.0	4500.6	4085.1	3763.0	3558.3	3456.0
6147.3	10°	6126.2	6005.8	5587.3	4931.1	4226.6	3606.5	3046.5	2658.2	2441.4	2339.1
6210.5	12.5°	6177.4	6002.8	5352.5	4410.3	3456.0	2697.3	2176.5	1983.9	1923.7	1902.6
6312.8	15°	6273.7	6011.8	5057.5	3814.2	2688.3	2038.0	1848.4	1845.4	1857.4	1851.4
6469.4	17.5°	6406.2	6020.8	4723.3	3182.0	2074.2	1797.2	1788.2	1815.3	1833.3	1824.3
6665.1	20°	6577.7	6056.9	4368.1	2555.8	1782.2	1737.0	1758.1	1782.2	1797.2	1782.2
6927.0	22.5°	6818.6	6120.2	3979.8	2053.1	1688.8	1700.9	1718.9	1746.0	1761.1	1740.0
7261.1	25°	7113.6	6219.5	3597.4	1785.2	1643.7	1658.7	1685.8	1715.9	1734.0	1712.9
7682.6	27.5°	7495.9	6379.1	3245.2	1725.0	1598.5	1607.6	1646.7	1691.9	1715.9	1688.8
8281.6	30°	8049.8	6641.0	2941.2	1752.1	1571.4	1550.4	1604.5	1667.8	1694.9	1670.8
9097.5	32.5°	8784.4	7011.2	2754.5	1794.2	1559.4	1484.1	1535.3	1616.6	1661.7	1646.7
10163.1	35°	9747.7	7574.2	2682.3	1842.4	1550.4	1414.9	1451.0	1538.3	1616.6	1631.6
11505.8	37.5°	10915.8	8356.9	2703.3	1863.4	1523.3	1357.7	1375.8	1451.0	1553.4	1601.5
13017.0	40°	12243.3	9269.1	2823.8	1842.4	1493.2	1309.5	1312.5	1369.7	1460.0	1532.3
14642.6	42.5°	13613.1	10334.7	3046.5	1764.1	1466.1	1267.4	1258.4	1297.5	1357.7	1408.9
16265.3	45°	14916.6	11430.5	3266.3	1655.7	1433.0	1225.2	1204.2	1219.2	1231.3	1252.3
17845.7	47.5°	16054.5	12201.2	3203.1	1556.4	1387.8	1177.1	1140.9	1134.9	1098.8	1095.8
19257.6	50°	16840.2	12369.8	2844.8	1457.0	1321.6	1122.9	1065.7	1029.6	966.3	936.2
20314.3	52.5°	17090.1	11704.5	2324.0	1357.7	1213.2	1050.6	969.4	912.2	833.9	806.8
20922.4	55°	16759.0	10401.0	1857.4	1237.3	1062.7	954.3	864.0	788.7	725.5	692.4
20988.6	57.5°	15949.2	8742.2	1469.1	1095.8	903.1	845.9	755.6	680.4	626.2	593.1
20254.0	60°	14606.5	6942.0	1162.0	927.2	770.7	728.5	635.2	587.0	538.9	499.7
18357.5	62.5°	12568.5	4955.1	912.2	734.5	644.2	596.1	541.9	505.7	448.6	394.4
14946.7	65°	9807.9	3031.5	704.4	538.9	517.8	493.7	460.6	427.5	358.2	304.1
9750.7	67.5°	6186.4	1436.0	502.7	406.4	409.4	397.4	382.3	355.2	304.1	255.9
4368.1	70°	2724.4	695.4	331.1	310.1	304.1	304.1	316.1	307.1	258.9	213.7
1517.2	72.5°	927.2	373.3	246.9	234.8	219.8	216.7	264.9	255.9	207.7	165.6
755.6	75°	484.7	249.9	180.6	168.6	132.5	159.6	210.7	198.7	147.5	108.4
499.7	77.5°	316.1	177.6	123.4	108.4	75.3	105.4	156.5	138.5	87.3	54.2
328.1	80°	198.7	117.4	72.2	51.2	36.1	57.2	84.3	60.2	33.1	12.0
192.7	82.5°	105.4	60.2	27.1	18.1	15.1	18.1	21.1	15.1	6.0	0.0
99.3	85°	42.1	21.1	9.0	6.0	3.0	0.0	6.0	3.0	0.0	0.0
18.1	87.5°	15.1	3.0	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>
5954.6
5563.2
4657.1
3471.0
2342.1
1896.6
1848.4
1821.3
1779.2
1737.0
1709.9
1688.8
1667.8
1646.7
1631.6
1613.6
1556.4
1429.9
1264.4
1092.8
939.2
803.8
692.4
587.0
490.7
385.3
295.0
249.9
204.7
156.5
99.3
48.2
9.0
0.0
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0.0

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