

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: P943414

Luminaire Tested: **GALN-SB7D-850-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-850-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50548 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

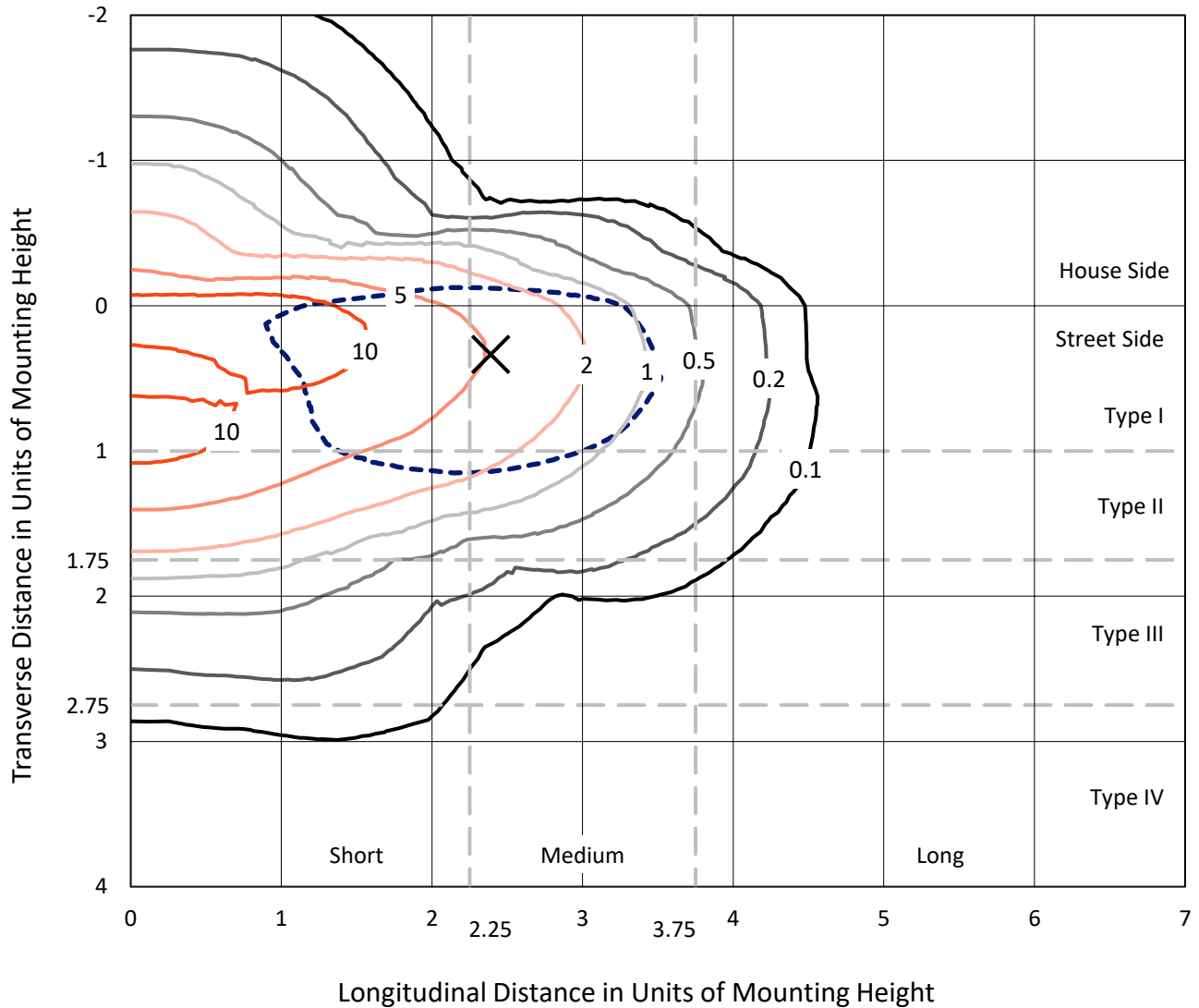
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

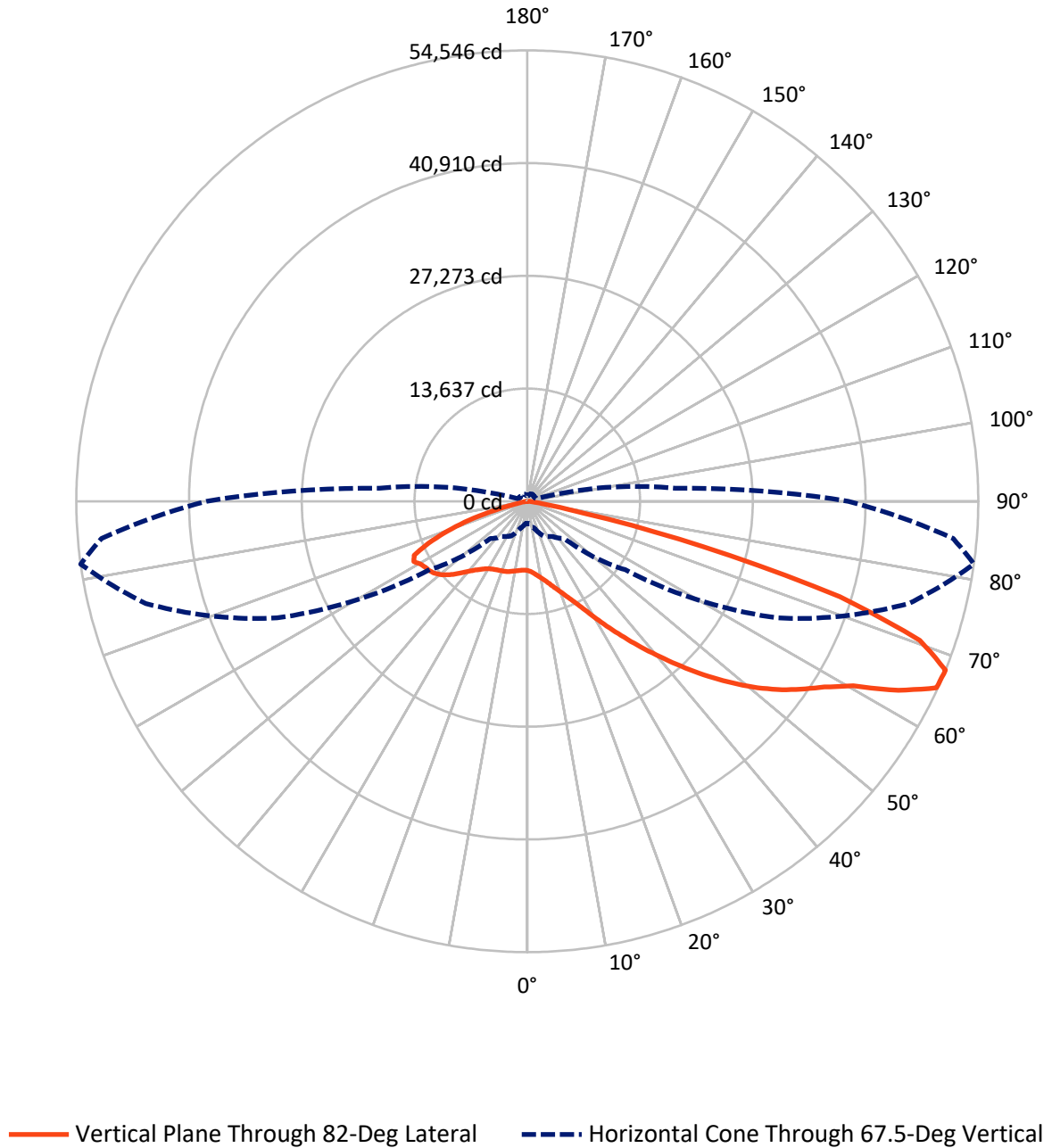
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9156.3	0.0	9156.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	41391.7	0.0	41391.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	50548.0	0.0	50548.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	746.1	1.5
10°-20°	1938.7	3.8
20°-30°	3105.2	6.1
30°-40°	5491.0	10.9
40°-50°	9620.8	19.0
50°-60°	12831.4	25.4
60°-70°	11945.4	23.6
70°-80°	4584.6	9.1
80°-90°	284.8	0.6
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°	50548.0	100.0
0°-180°	50548.0	100.0

Coefficient of Utilization



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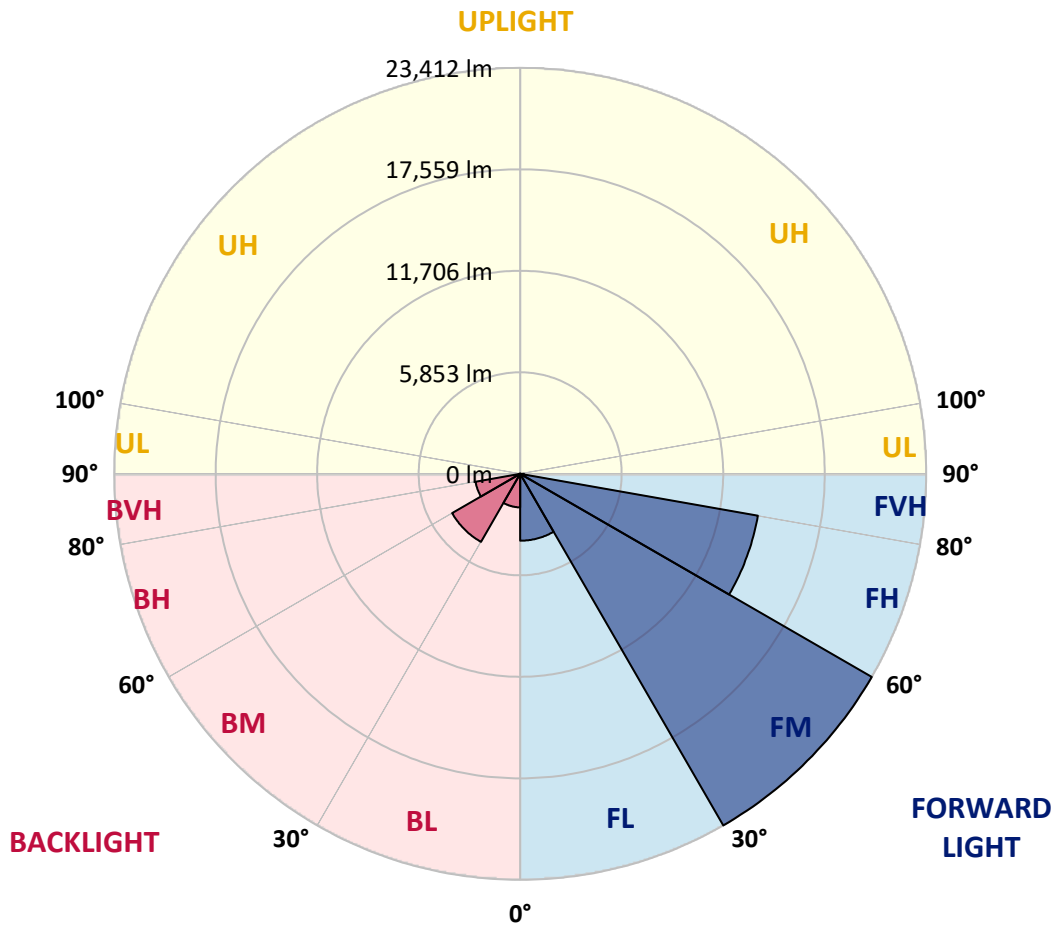
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3856.3	7.6			
FM (30°-60°)	23411.8	46.3			
FH (60°-80°)	13916.6	27.5			G5
FVH (80°-90°)	207.0	0.4			G2/225
BL (0°-30°)	1933.8	3.8	B3/2500		
BM (30°-60°)	4531.4	9.0	B3/5000		
BH (60°-80°)	2613.4	5.2	B4/5000		G4/5000
BVH (80°-90°)	77.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	8374.1	8374.1	8374.1	8374.1	8374.1	8374.1	8374.1	8374.1	8374.1	8374.1
2.5°	8850.8	8901.8	8872.7	8858.1	8832.6	8796.3	8767.1	8676.2	8581.5	8519.7
5°	9029.2	9080.1	9076.5	9091.0	9109.2	9120.2	9112.9	9011.0	8876.3	8770.8
7.5°	8876.3	8934.5	8981.9	9054.6	9182.0	9316.7	9382.2	9360.4	9222.1	9076.5
10°	8443.2	8505.1	8617.9	8789.0	9058.3	9349.4	9593.3	9706.1	9618.7	9458.6
12.5°	7649.9	7711.7	7933.7	8304.9	8756.2	9262.1	9727.9	10030.0	10051.8	9891.7
15°	6758.2	6820.1	7056.7	7522.5	8210.3	9021.9	9800.7	10372.1	10565.0	10426.7
17.5°	6205.1	6259.6	6438.0	6812.8	7529.8	8541.5	9775.2	10736.0	11176.4	11067.2
20°	6037.6	6085.0	6168.7	6430.7	7027.5	8042.9	9607.8	11078.1	11835.1	11773.2
22.5°	6216.0	6259.6	6285.1	6401.6	6776.4	7715.4	9396.7	11427.5	12599.4	12606.6
25°	6627.2	6670.9	6641.8	6714.6	6878.3	7613.5	9316.7	11838.7	13560.1	13640.2
27.5°	7304.1	7307.8	7238.6	7235.0	7260.5	7766.3	9400.4	12279.1	14772.0	14921.2
30°	8661.6	8607.0	8341.3	8053.8	7922.8	8224.9	9633.3	12799.5	16202.3	16468.0
32.5°	10754.2	10674.1	10186.5	9498.6	8807.2	8963.7	10051.8	13392.7	17759.9	18240.3
35°	13025.2	13003.3	12493.8	11471.2	10262.9	10015.4	10732.4	14171.5	19459.5	20223.7
37.5°	15136.0	15125.0	14833.9	13629.3	12159.0	11482.1	11824.2	15190.6	21279.1	22385.5
40°	17064.8	17097.6	16806.4	15729.2	14248.0	13363.6	13309.0	16449.8	23302.6	24740.1
42.5°	18731.6	18768.0	18473.2	17676.2	16311.5	15445.3	15132.3	17992.8	25278.8	27269.5
45°	19863.5	20089.1	20045.4	19408.5	18429.6	17530.6	17323.2	19929.0	27531.5	29951.7
47.5°	20183.7	20391.2	20718.7	20806.0	20209.2	19324.8	19572.3	22261.8	29809.7	32637.5
50°	19394.0	19586.9	20267.4	21173.6	21588.5	21315.5	21759.5	24762.0	32142.5	35316.0
52.5°	17836.3	18032.9	18891.7	20325.6	22017.9	22876.8	23954.1	27225.8	34402.6	37852.6
55°	15583.6	15791.0	16893.8	18516.9	21199.1	23521.0	25784.6	29686.0	36473.3	40134.5
57.5°	12519.3	12672.1	13818.5	16089.5	19139.2	22880.5	27134.8	32371.8	38424.0	42376.3
60°	8159.4	8294.0	9626.0	12159.0	15725.5	20740.5	27404.1	35367.0	41015.2	45291.4
62.5°	5426.2	5517.2	6307.0	8166.7	11074.5	16631.7	25828.3	37758.0	44814.7	50364.7
65°	3723.0	3814.0	4603.7	5899.4	7154.9	11001.7	21297.3	37441.4	48257.5	54393.4
67.5°	2656.7	2733.1	3402.8	4625.6	5178.8	6390.7	14437.2	33394.5	47762.5	54546.2
70°	1903.4	1947.0	2500.2	3602.9	4116.1	3839.5	8028.4	25540.8	41819.5	50368.3
72.5°	1332.0	1346.6	1736.0	2744.1	3315.4	2802.3	3821.3	17028.4	31629.4	39534.0
75°	902.6	920.7	1168.2	2012.5	2660.3	2139.9	2023.5	9131.1	18567.8	21883.3
77.5°	553.2	560.5	753.3	1375.7	1990.7	1630.4	1302.9	3868.6	7184.0	7053.0
80°	313.0	313.0	480.4	855.2	1357.5	1051.8	913.5	1645.0	2274.6	1998.0
82.5°	174.7	178.3	349.4	531.3	898.9	622.3	502.2	760.6	982.6	869.8
85°	72.8	80.1	214.7	251.1	429.4	309.3	203.8	320.3	363.9	323.9
87.5°	7.3	10.9	65.5	47.3	51.0	61.9	29.1	61.9	51.0	51.0
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°
8374.1	0°	8374.1	8374.1	8374.1	8374.1	8374.1	8374.1	8374.1	8374.1	8374.1	8374.1
8497.8	2.5°	8428.7	8374.1	8235.8	8075.7	7864.6	7762.7	7624.4	7529.8	7449.7	7457.0
8708.9	5°	8592.5	8454.2	8144.8	7759.0	7278.7	6936.6	6572.6	6321.5	6117.7	6074.0
9000.1	7.5°	8818.1	8599.7	8057.5	7362.4	6550.8	5935.7	5386.2	5033.2	4782.1	4702.0
9353.1	10°	9109.2	8792.6	7944.7	6863.8	5695.5	4913.1	4323.5	4046.9	3875.9	3817.7
9768.0	12.5°	9447.7	9014.6	7795.4	6256.0	4814.8	4061.5	3686.6	3548.3	3493.8	3475.6
10277.5	15°	9873.5	9291.2	7569.8	5535.4	4068.8	3541.1	3380.9	3362.7	3370.0	3362.7
10888.9	17.5°	10379.4	9593.3	7202.2	4793.0	3566.5	3275.4	3217.2	3231.7	3249.9	3246.3
11573.1	20°	10932.5	9891.7	6732.8	4134.3	3224.4	3086.1	3053.4	3068.0	3082.5	3075.2
12362.8	22.5°	11562.1	10212.0	6212.3	3621.1	2995.2	2911.5	2875.1	2878.7	2878.7	2864.2
13363.6	25°	12315.5	10565.0	5666.4	3257.2	2820.5	2755.0	2711.3	2696.7	2674.9	2631.2
14579.1	27.5°	13214.4	10939.8	5142.4	3002.4	2682.2	2620.3	2569.4	2533.0	2478.4	2405.6
16038.5	30°	14226.1	11394.7	4698.4	2842.3	2573.0	2511.1	2452.9	2398.3	2318.3	2227.3
17716.2	32.5°	15416.2	11882.4	4374.5	2736.8	2474.7	2409.2	2340.1	2274.6	2187.2	2096.3
19601.4	35°	16835.5	12472.0	4185.2	2664.0	2398.3	2311.0	2234.5	2161.8	2096.3	2016.2
21650.4	37.5°	18375.0	13097.9	4127.0	2627.6	2347.4	2212.7	2125.4	2074.4	2067.1	2019.8
23866.7	40°	20060.0	13840.4	4170.7	2605.8	2292.8	2118.1	2023.5	2012.5	2030.7	1947.0
26235.9	42.5°	21843.2	14721.1	4243.5	2580.3	2216.4	2023.5	1932.5	1932.5	1917.9	1801.5
28739.8	45°	23772.1	15736.5	4316.2	2518.4	2125.4	1928.8	1859.7	1834.2	1772.4	1659.5
31258.2	47.5°	25715.5	16770.0	4370.8	2405.6	2016.2	1848.8	1786.9	1728.7	1637.7	1535.8
33729.3	50°	27560.6	17698.1	4312.6	2238.2	1892.5	1772.4	1706.8	1626.8	1528.5	1459.4
36069.4	52.5°	29209.2	18502.3	4065.1	2041.7	1761.4	1692.3	1634.1	1550.4	1470.3	1397.5
38180.2	55°	30643.1	19153.8	3628.4	1856.1	1645.0	1623.1	1564.9	1459.4	1350.2	1288.3
40272.8	57.5°	32018.8	19648.7	3082.5	1703.2	1539.4	1546.7	1459.4	1364.7	1262.8	1197.3
43093.3	60°	33849.4	20311.1	2529.3	1561.3	1426.6	1448.5	1353.8	1284.7	1157.3	1073.6
47929.9	62.5°	36775.4	21341.0	2008.9	1386.6	1295.6	1302.9	1262.8	1179.1	1026.3	928.0
51514.7	65°	39097.3	20962.5	1583.1	1197.3	1146.4	1157.3	1157.3	1066.3	902.6	789.7
51707.6	67.5°	38835.3	17949.2	1262.8	1011.7	1004.5	1011.7	1037.2	960.8	800.7	709.7
47769.8	70°	35774.6	14277.1	1011.7	840.7	873.4	855.2	928.0	877.1	720.6	629.6
37033.8	72.5°	29191.0	10284.7	771.5	695.1	669.6	698.8	837.0	789.7	600.5	498.6
19616.0	75°	17057.5	5488.1	575.0	549.5	484.0	582.3	742.4	673.3	458.6	367.6
6012.2	77.5°	5553.6	1914.3	422.2	404.0	360.3	469.5	633.2	567.7	374.9	291.1
1761.4	80°	1488.5	578.7	287.5	265.7	232.9	349.4	502.2	451.3	269.3	189.2
757.0	82.5°	596.8	243.8	167.4	149.2	127.4	240.2	396.7	363.9	200.2	120.1
236.6	85°	192.9	80.1	61.9	47.3	58.2	149.2	236.6	247.5	141.9	61.9
36.4	87.5°	25.5	10.9	10.9	14.6	10.9	25.5	72.8	69.1	40.0	7.3
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>
8374.1
7384.2
5975.8
4621.9
3774.0
3464.6
3359.1
3239.0
3071.6
2856.9
2624.0
2398.3
2220.0
2099.9
2008.9
2016.2
1950.7
1801.5
1655.9
1532.2
1448.5
1390.2
1281.0
1190.1
1062.7
920.7
778.8
695.1
618.7
487.7
356.7
280.2
185.6
120.1
47.3
0.0
0.0

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