

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: P942664

Luminaire Tested: **GALN-SB6D-740-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942664
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-SB6D-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 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: 47673 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

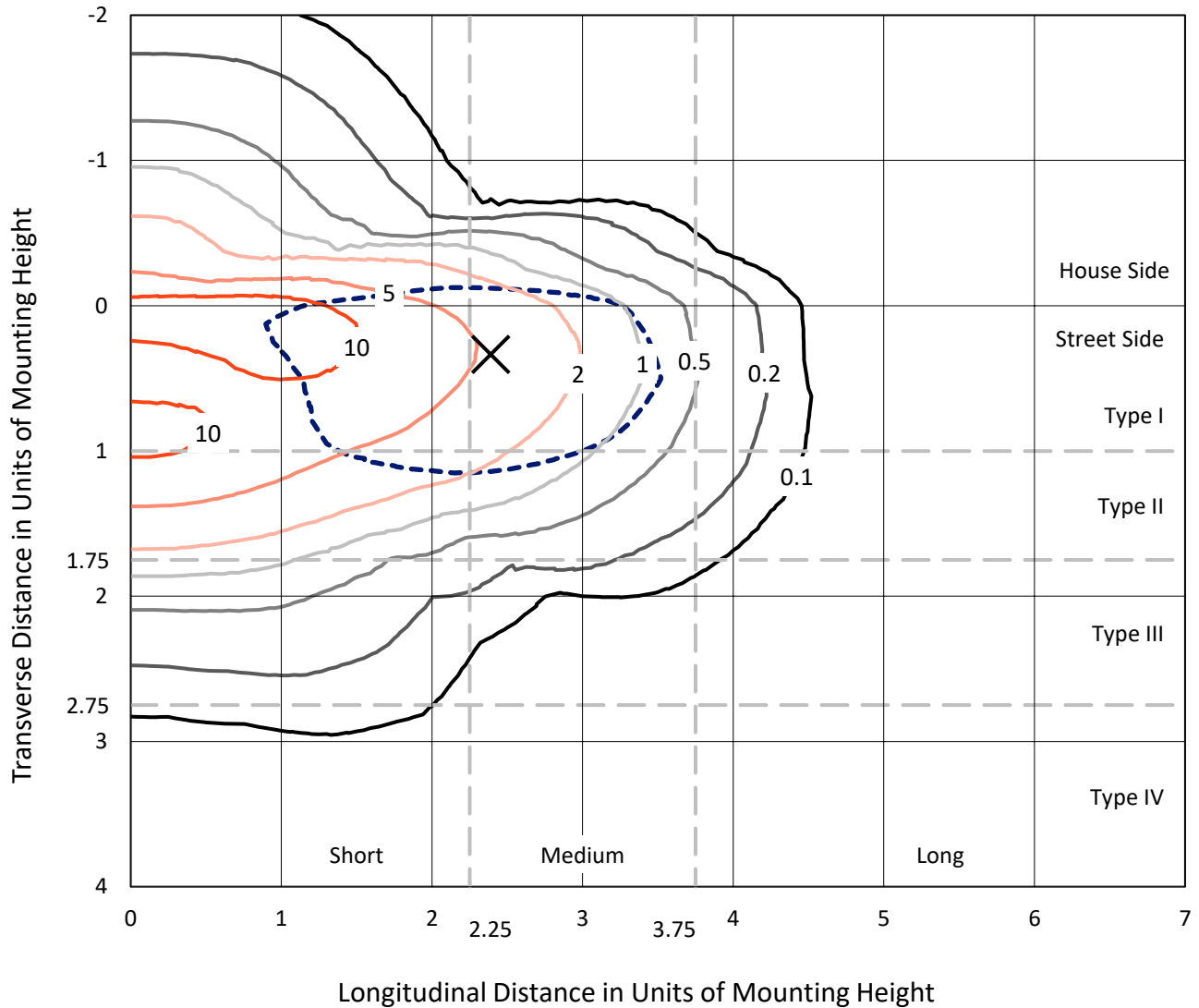
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

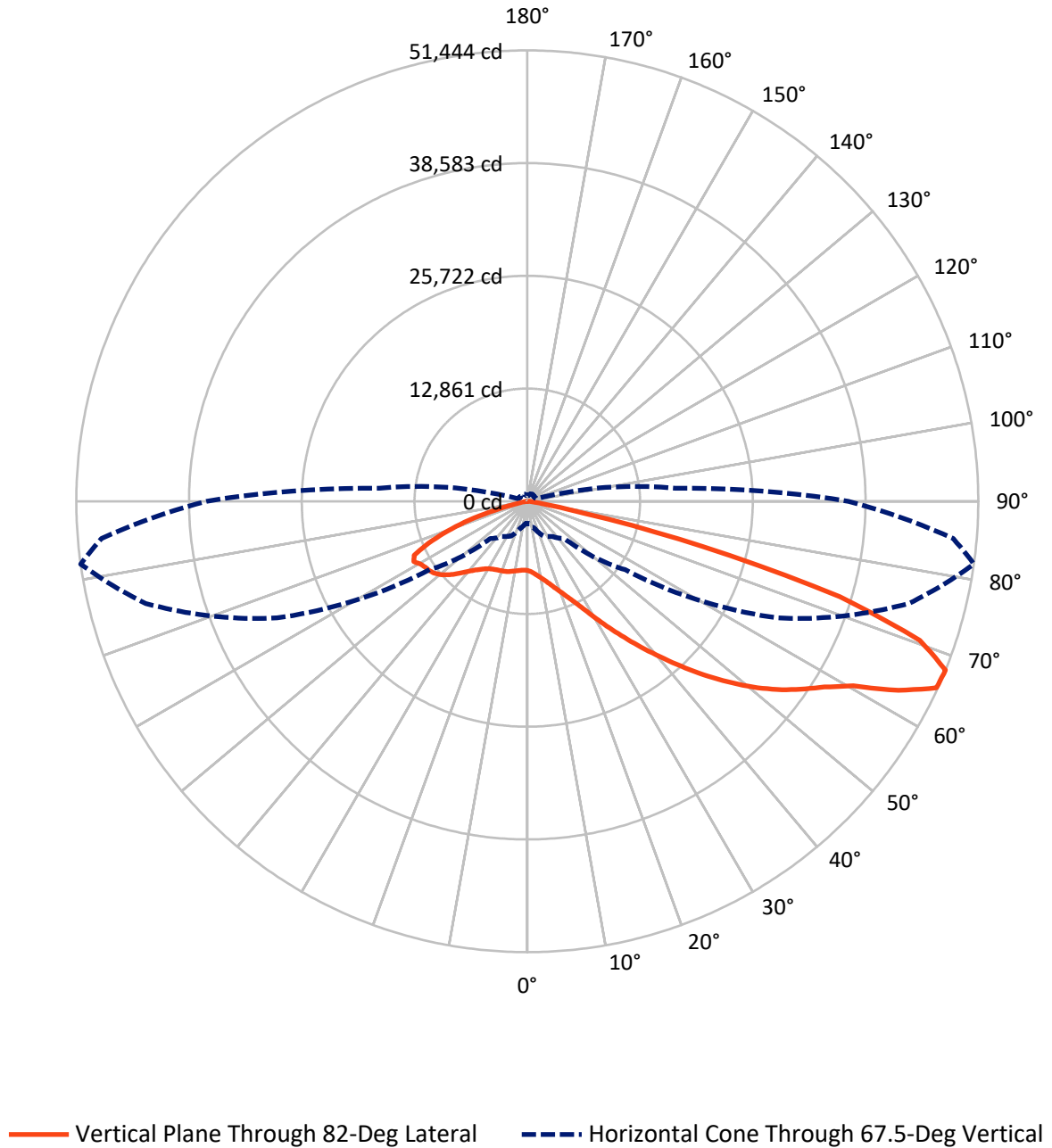
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 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	8635.5	0.0	8635.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	39037.5	0.0	39037.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	47673.0	0.0	47673.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	703.6	1.5
10°-20°	1828.5	3.8
20°-30°	2928.6	6.1
30°-40°	5178.7	10.9
40°-50°	9073.6	19.0
50°-60°	12101.6	25.4
60°-70°	11266.0	23.6
70°-80°	4323.9	9.1
80°-90°	268.6	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°	47673.0	100.0
0°-180°	47673.0	100.0

Coefficient of Utilization



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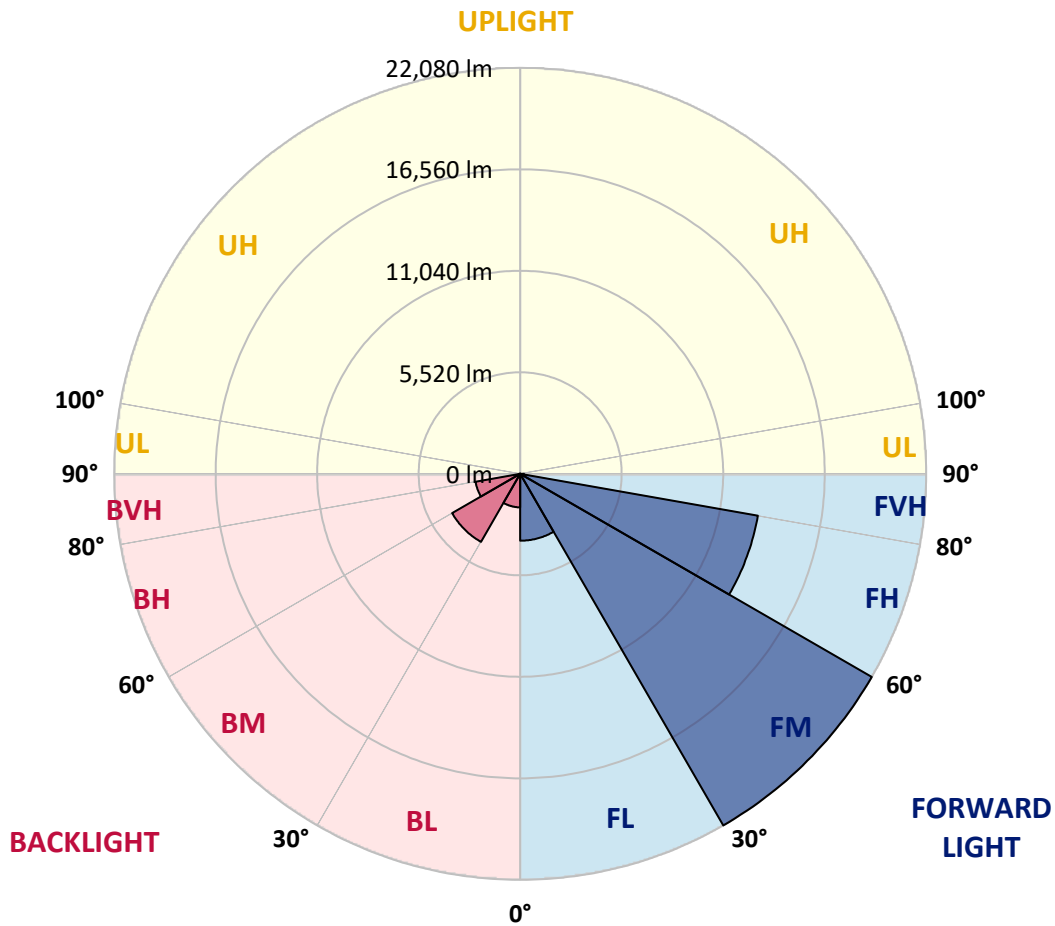
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3636.9	7.6			
FM (30°-60°)	22080.2	46.3			
FH (60°-80°)	13125.1	27.5			G5
FVH (80°-90°)	195.2	0.4			G2/225
BL (0°-30°)	1823.8	3.8	B3/2500		
BM (30°-60°)	4273.7	9.0	B3/5000		
BH (60°-80°)	2464.7	5.2	B3/2500		G3/2500
BVH (80°-90°)	73.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	7897.8	7897.8	7897.8	7897.8	7897.8	7897.8	7897.8	7897.8	7897.8	7897.8
2.5°	8347.4	8395.5	8368.0	8354.3	8330.3	8296.0	8268.5	8182.7	8093.4	8035.1
5°	8515.6	8563.7	8560.2	8574.0	8591.1	8601.4	8594.6	8498.5	8371.5	8271.9
7.5°	8371.5	8426.4	8471.0	8539.6	8659.8	8786.8	8848.6	8828.0	8697.5	8560.2
10°	7963.0	8021.4	8127.8	8289.1	8543.1	8817.7	9047.6	9154.0	9071.7	8920.6
12.5°	7214.8	7273.1	7482.5	7832.6	8258.2	8735.3	9174.6	9459.5	9480.1	9329.1
15°	6373.8	6432.2	6655.3	7094.6	7743.3	8508.8	9243.3	9782.2	9964.1	9833.6
17.5°	5852.1	5903.6	6071.8	6425.3	7101.5	8055.7	9219.3	10125.4	10540.7	10437.7
20°	5694.2	5738.9	5817.8	6064.9	6627.8	7585.5	9061.4	10448.0	11162.0	11103.6
22.5°	5862.4	5903.6	5927.6	6037.5	6391.0	7276.6	8862.3	10777.5	11882.7	11889.6
25°	6250.3	6291.5	6264.0	6332.7	6487.1	7180.4	8786.8	11165.4	12788.9	12864.4
27.5°	6888.7	6892.1	6826.9	6823.5	6847.5	7324.6	8865.7	11580.7	13931.8	14072.6
30°	8169.0	8117.5	7866.9	7595.8	7472.2	7757.1	9085.4	12071.5	15280.8	15531.3
32.5°	10142.5	10067.0	9607.1	8958.4	8306.3	8453.8	9480.1	12631.0	16749.8	17202.9
35°	12284.3	12263.7	11783.2	10818.7	9679.2	9445.8	10122.0	13365.5	18352.7	19073.5
37.5°	14275.1	14264.8	13990.2	12854.1	11467.4	10829.0	11151.7	14326.6	20068.9	21112.3
40°	16094.2	16125.1	15850.5	14834.6	13437.6	12603.5	12552.0	15514.2	21977.2	23333.0
42.5°	17666.2	17700.6	17422.5	16670.9	15383.7	14566.8	14271.6	16969.5	23841.0	25718.5
45°	18733.7	18946.5	18905.3	18304.6	17381.3	16533.6	16337.9	18795.5	25965.6	28248.1
47.5°	19035.7	19231.4	19540.3	19622.7	19059.8	18225.7	18459.1	20995.6	28114.3	30781.2
50°	18290.9	18472.8	19114.7	19969.3	20360.6	20103.2	20521.9	23353.6	30314.4	33307.4
52.5°	16821.9	17007.2	17817.3	19169.6	20765.6	21575.7	22591.6	25677.3	32445.9	35699.7
55°	14697.3	14892.9	15932.9	17463.7	19993.4	22183.2	24318.1	27997.6	34398.9	37851.8
57.5°	11807.2	11951.4	13032.6	15174.4	18050.6	21579.1	25591.5	30530.6	36238.6	39966.1
60°	7695.3	7822.3	9078.5	11467.4	14831.1	19560.9	25845.5	33355.4	38682.4	42715.4
62.5°	5117.6	5203.4	5948.2	7702.2	10444.6	15685.8	24359.3	35610.5	42265.8	47500.1
65°	3511.3	3597.1	4341.9	5563.8	6748.0	10375.9	20086.0	35311.9	45512.8	51299.7
67.5°	2505.6	2577.7	3209.2	4362.5	4884.2	6027.2	13616.1	31495.1	45046.0	51443.8
70°	1795.1	1836.3	2358.0	3398.0	3882.0	3621.1	7571.7	24088.1	39441.0	47503.5
72.5°	1256.2	1270.0	1637.2	2588.0	3126.9	2642.9	3604.0	16059.9	29830.4	37285.5
75°	851.2	868.4	1101.8	1898.1	2509.0	2018.2	1908.4	8611.7	17511.8	20638.6
77.5°	521.7	528.6	710.5	1297.4	1877.5	1537.7	1228.8	3648.6	6775.4	6651.9
80°	295.2	295.2	453.1	806.6	1280.3	991.9	861.5	1551.4	2145.2	1884.4
82.5°	164.8	168.2	329.5	501.1	847.8	586.9	473.7	717.4	926.7	820.3
85°	68.6	75.5	202.5	236.8	405.0	291.7	192.2	302.0	343.2	305.5
87.5°	6.9	10.3	61.8	44.6	48.1	58.3	27.5	58.3	48.1	48.1
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°
7897.8	0°	7897.8	7897.8	7897.8	7897.8	7897.8	7897.8	7897.8	7897.8	7897.8	7897.8
8014.5	2.5°	7949.3	7897.8	7767.4	7616.4	7417.3	7321.2	7190.7	7101.5	7026.0	7032.9
8213.6	5°	8103.7	7973.3	7681.6	7317.7	6864.7	6542.0	6198.8	5962.0	5769.8	5728.6
8488.2	7.5°	8316.5	8110.6	7599.2	6943.6	6178.2	5598.1	5079.9	4746.9	4510.1	4434.6
8821.1	10°	8591.1	8292.5	7492.8	6473.4	5371.6	4633.7	4077.6	3816.8	3655.4	3600.5
9212.4	12.5°	8910.3	8501.9	7352.1	5900.2	4541.0	3830.5	3477.0	3346.5	3295.0	3277.9
9692.9	15°	9311.9	8762.8	7139.3	5220.6	3837.4	3339.7	3188.6	3171.5	3178.3	3171.5
10269.5	17.5°	9789.0	9047.6	6792.6	4520.4	3363.7	3089.1	3034.2	3047.9	3065.1	3061.6
10914.8	20°	10310.7	9329.1	6349.8	3899.1	3041.0	2910.6	2879.7	2893.5	2907.2	2900.3
11659.6	22.5°	10904.5	9631.1	5859.0	3415.2	2824.8	2745.9	2711.5	2715.0	2715.0	2701.2
12603.5	25°	11615.0	9964.1	5344.1	3071.9	2660.1	2598.3	2557.1	2543.4	2522.8	2481.6
13749.9	27.5°	12462.8	10317.6	4849.9	2831.7	2529.6	2471.3	2423.2	2388.9	2337.4	2268.8
15126.3	30°	13417.0	10746.6	4431.1	2680.7	2426.7	2368.3	2313.4	2261.9	2186.4	2100.6
16708.6	32.5°	14539.4	11206.6	4125.7	2581.1	2334.0	2272.2	2207.0	2145.2	2062.8	1977.0
18486.6	35°	15878.0	11762.6	3947.2	2512.5	2261.9	2179.5	2107.5	2038.8	1977.0	1901.5
20419.0	37.5°	17329.9	12353.0	3892.3	2478.1	2213.9	2086.9	2004.5	1956.4	1949.6	1904.9
22509.3	40°	18919.0	13053.2	3933.5	2457.6	2162.4	1997.6	1908.4	1898.1	1915.2	1836.3
24743.7	42.5°	20600.9	13883.8	4002.1	2433.5	2090.3	1908.4	1822.6	1822.6	1808.8	1699.0
27105.1	45°	22420.0	14841.4	4070.7	2375.2	2004.5	1819.1	1753.9	1729.9	1671.5	1565.1
29480.3	47.5°	24252.9	15816.2	4122.2	2268.8	1901.5	1743.6	1685.3	1630.4	1544.6	1448.4
31810.9	50°	25993.1	16691.4	4067.3	2110.9	1784.8	1671.5	1609.8	1534.3	1441.6	1376.4
34017.9	52.5°	27547.9	17450.0	3833.9	1925.5	1661.3	1596.0	1541.1	1462.2	1386.7	1318.0
36008.6	55°	28900.3	18064.4	3422.0	1750.5	1551.4	1530.8	1475.9	1376.4	1273.4	1215.0
37982.2	57.5°	30197.7	18531.2	2907.2	1606.3	1451.9	1458.7	1376.4	1287.1	1191.0	1129.2
40642.3	60°	31924.1	19155.9	2385.5	1472.5	1345.5	1366.1	1276.8	1211.6	1091.5	1012.5
45203.9	62.5°	34683.7	20127.2	1894.6	1307.7	1221.9	1228.8	1191.0	1112.1	967.9	875.2
48584.7	65°	36873.6	19770.2	1493.1	1129.2	1081.2	1091.5	1091.5	1005.7	851.2	744.8
48766.6	67.5°	36626.4	16928.3	1191.0	954.2	947.3	954.2	978.2	906.1	755.1	669.3
45052.8	70°	33739.9	13465.1	954.2	792.9	823.8	806.6	875.2	827.2	679.6	593.8
34927.4	72.5°	27530.8	9699.8	727.7	655.6	631.5	659.0	789.4	744.8	566.3	470.2
18500.3	75°	16087.4	5176.0	542.3	518.3	456.5	549.2	700.2	635.0	432.5	346.7
5670.2	77.5°	5237.7	1805.4	398.2	381.0	339.8	442.8	597.2	535.4	353.5	274.6
1661.3	80°	1403.8	545.7	271.2	250.6	219.7	329.5	473.7	425.6	254.0	178.5
713.9	82.5°	562.9	230.0	157.9	140.7	120.1	226.5	374.1	343.2	188.8	113.3
223.1	85°	181.9	75.5	58.3	44.6	54.9	140.7	223.1	233.4	133.9	58.3
34.3	87.5°	24.0	10.3	10.3	13.7	10.3	24.0	68.6	65.2	37.8	6.9
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>
7897.8
6964.2
5635.9
4359.1
3559.3
3267.6
3168.0
3054.8
2896.9
2694.4
2474.7
2261.9
2093.7
1980.5
1894.6
1901.5
1839.7
1699.0
1561.7
1445.0
1366.1
1311.2
1208.2
1122.4
1002.2
868.4
734.5
655.6
583.5
459.9
336.4
264.3
175.0
113.3
44.6
0.0
0.0

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