

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: P942034

Luminaire Tested: **GALN-SB5D-835-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942034
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-SB5D-835-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 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: 34816 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

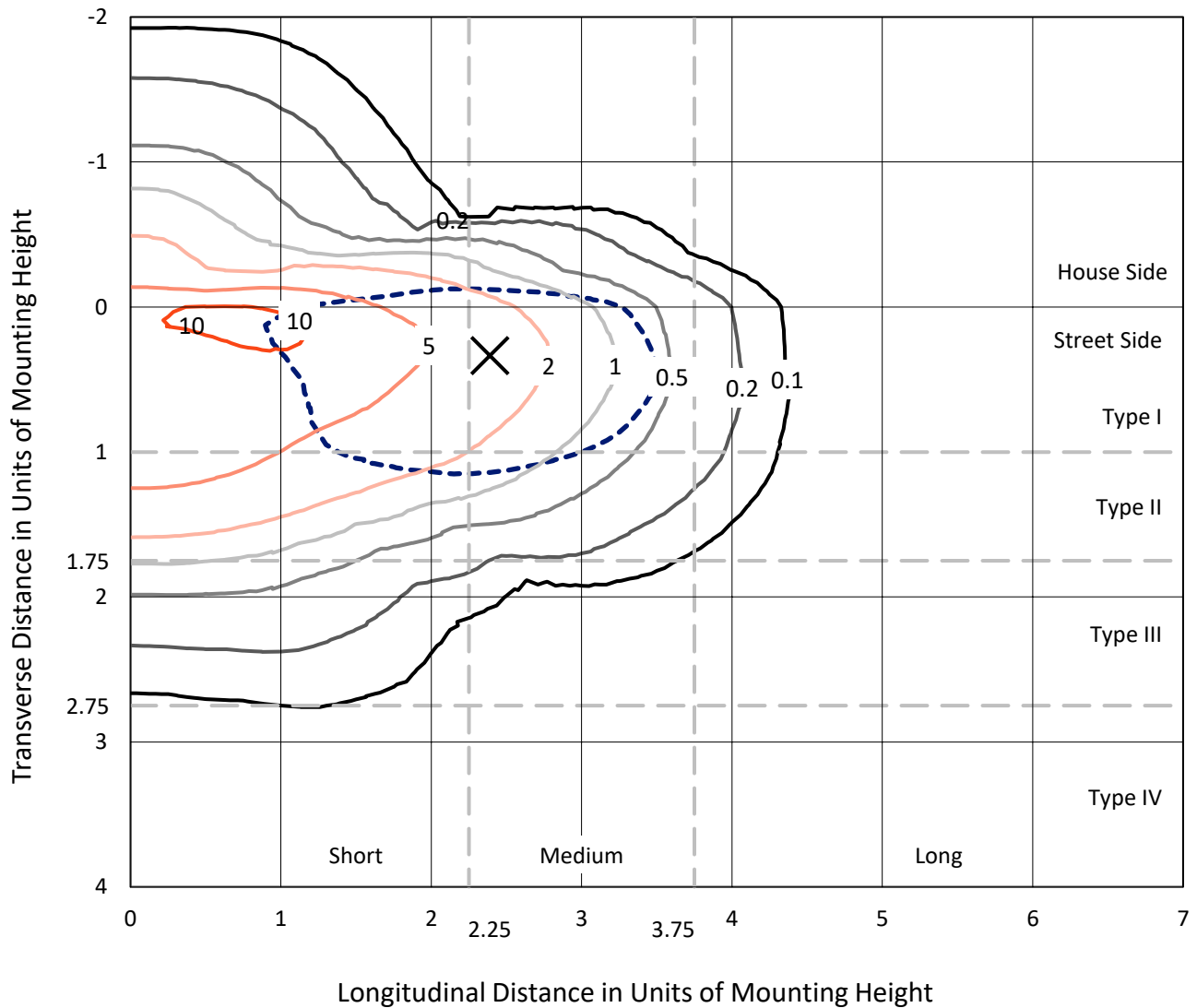
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

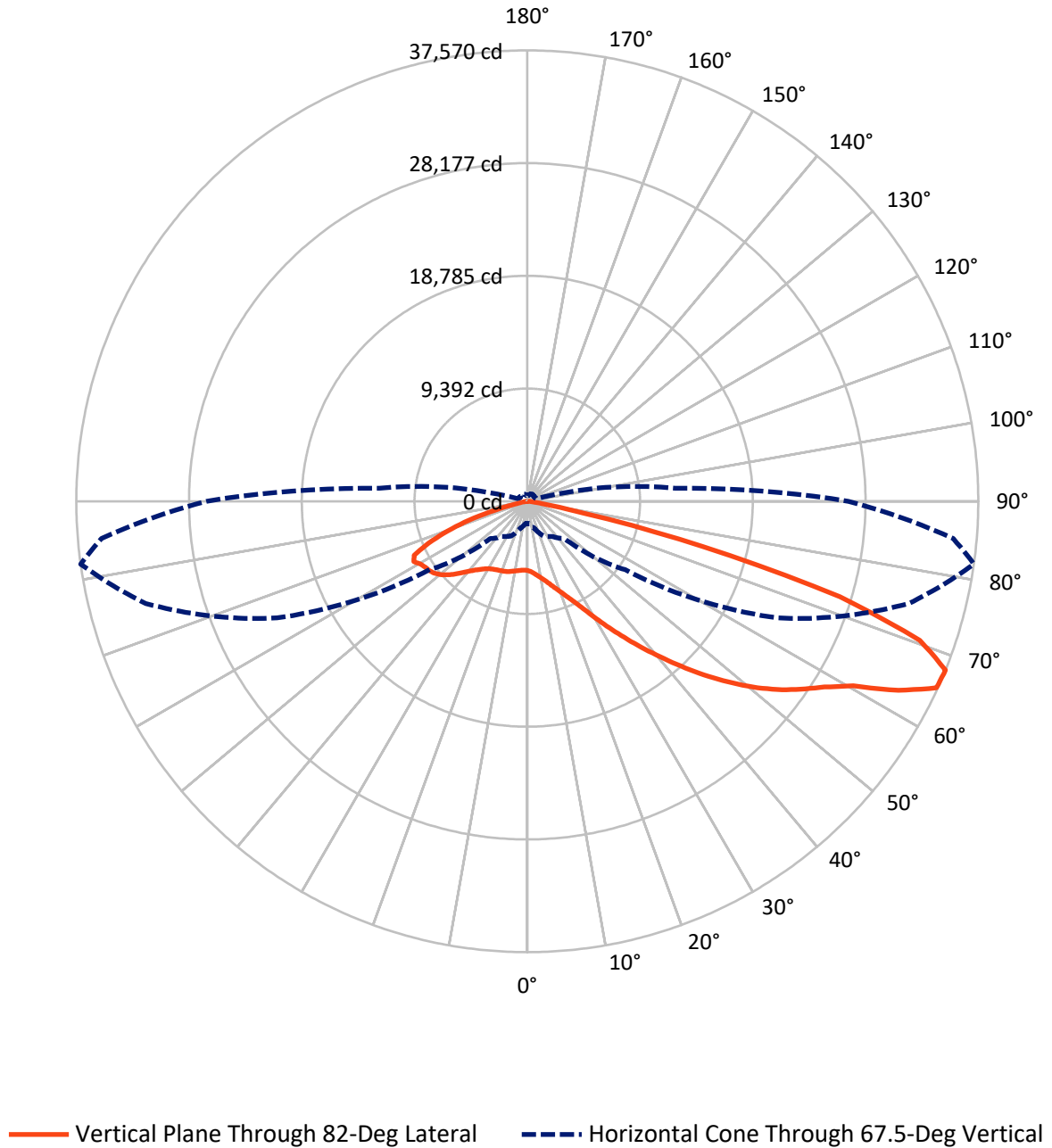
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 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	6306.6	0.0	6306.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	28509.4	0.0	28509.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	34816.0	0.0	34816.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.9	1.5
10°-20°	1335.3	3.8
20°-30°	2138.8	6.1
30°-40°	3782.0	10.9
40°-50°	6626.5	19.0
50°-60°	8837.9	25.4
60°-70°	8227.6	23.6
70°-80°	3157.8	9.1
80°-90°	196.1	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°	34816.0	100.0
0°-180°	34816.0	100.0

Coefficient of Utilization



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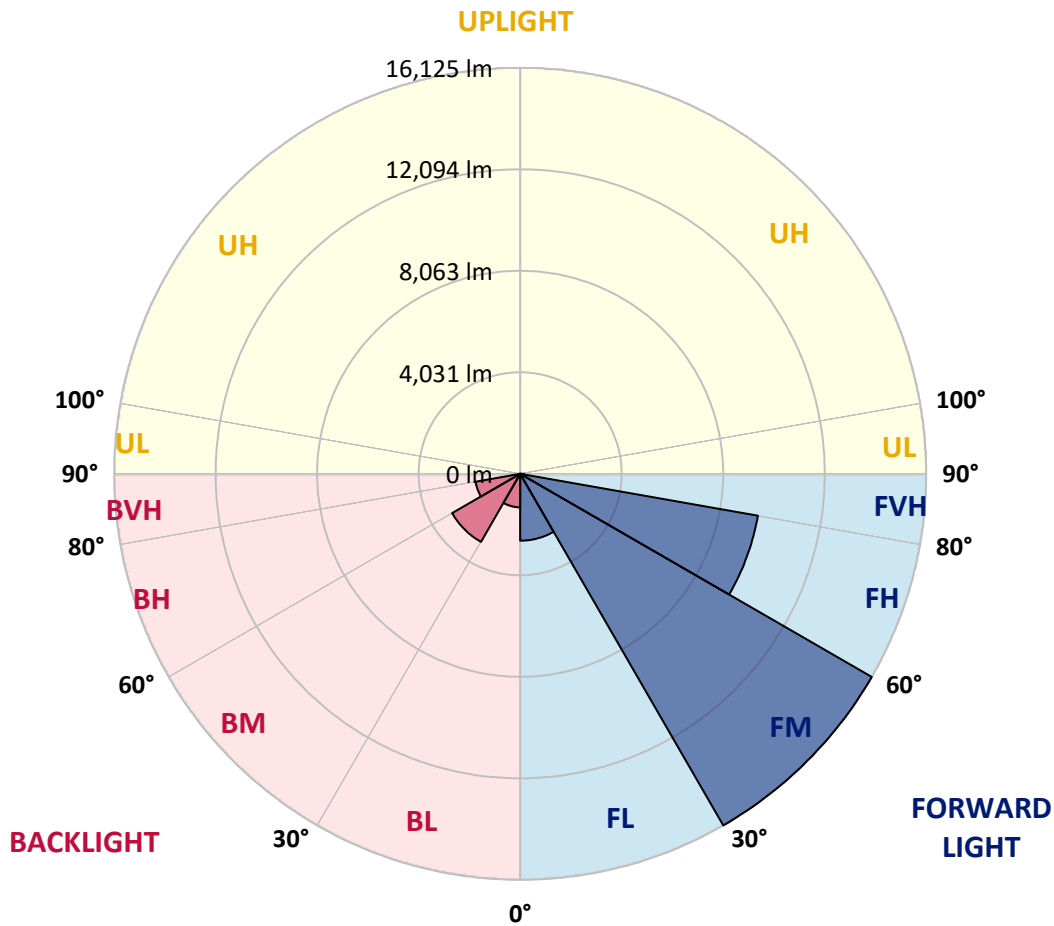
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2656.1	7.6			
FM (30°-60°)	16125.4	46.3			
FH (60°-80°)	9585.4	27.5			G4/12000
FVH (80°-90°)	142.6	0.4			G2/225
BL (0°-30°)	1331.9	3.8	B3/2500		
BM (30°-60°)	3121.1	9.0	B3/5000		
BH (60°-80°)	1800.0	5.2	B3/2500		G3/2500
BVH (80°-90°)	53.5	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5767.8	5767.8	5767.8	5767.8	5767.8	5767.8	5767.8	5767.8	5767.8	5767.8
2.5°	6096.2	6131.3	6111.2	6101.2	6083.7	6058.6	6038.6	5975.9	5910.7	5868.1
5°	6219.0	6254.1	6251.6	6261.6	6274.2	6281.7	6276.7	6206.5	6113.8	6041.1
7.5°	6113.8	6153.9	6186.4	6236.6	6324.3	6417.1	6462.2	6447.1	6351.9	6251.6
10°	5815.5	5858.1	5935.8	6053.6	6239.1	6439.6	6607.6	6685.3	6625.1	6514.8
12.5°	5269.0	5311.6	5464.5	5720.2	6031.0	6379.5	6700.3	6908.4	6923.4	6813.1
15°	4654.9	4697.5	4860.4	5181.3	5655.0	6214.0	6750.4	7144.0	7276.8	7181.6
17.5°	4273.9	4311.5	4434.3	4692.5	5186.3	5883.1	6732.9	7394.7	7698.0	7622.8
20°	4158.6	4191.1	4248.8	4429.3	4840.4	5539.7	6617.6	7630.3	8151.7	8109.1
22.5°	4281.4	4311.5	4329.0	4409.2	4667.4	5314.1	6472.2	7870.9	8678.1	8683.1
25°	4564.6	4594.7	4574.7	4624.8	4737.6	5243.9	6417.1	8154.2	9339.8	9395.0
27.5°	5030.9	5033.4	4985.8	4983.2	5000.8	5349.2	6474.7	8457.5	10174.5	10277.3
30°	5965.9	5928.3	5745.3	5547.2	5457.0	5665.1	6635.1	8815.9	11159.7	11342.7
32.5°	7407.2	7352.0	7016.2	6542.4	6066.1	6173.9	6923.4	9224.5	12232.5	12563.4
35°	8971.3	8956.3	8605.4	7901.0	7068.8	6898.3	7392.2	9760.9	13403.1	13929.5
37.5°	10425.2	10417.7	10217.2	9387.5	8374.8	7908.5	8144.2	10462.8	14656.5	15418.5
40°	11753.7	11776.3	11575.8	10833.8	9813.6	9204.5	9166.9	11330.1	16050.2	17040.3
42.5°	12901.8	12926.9	12723.8	12174.9	11234.9	10638.3	10422.7	12392.9	17411.3	18782.4
45°	13681.4	13836.8	13806.7	13368.0	12693.7	12074.6	11931.7	13726.5	18962.9	20629.8
47.5°	13902.0	14044.8	14270.4	14330.6	13919.5	13310.4	13480.8	15333.3	20532.1	22479.8
50°	13358.0	13490.9	13959.6	14583.8	14869.5	14681.5	14987.3	17055.3	22138.9	24324.7
52.5°	12285.2	12420.5	13012.1	13999.7	15165.3	15756.9	16498.9	18752.4	23695.5	26071.8
55°	10733.5	10876.4	11635.9	12753.9	14601.3	16200.6	17759.7	20446.9	25121.8	27643.5
57.5°	8622.9	8728.2	9517.8	11082.0	13182.5	15759.4	18689.7	22296.8	26465.4	29187.6
60°	5619.9	5712.7	6630.1	8374.8	10831.3	14285.5	18875.2	24359.8	28250.1	31195.4
62.5°	3737.4	3800.1	4344.0	5625.0	7627.8	11455.5	17789.8	26006.6	30867.1	34689.7
65°	2564.3	2627.0	3170.9	4063.3	4928.1	7577.6	14669.0	25788.6	33238.4	37464.6
67.5°	1829.9	1882.5	2343.7	3186.0	3567.0	4401.7	9943.9	23001.1	32897.5	37569.9
70°	1311.0	1341.1	1722.1	2481.6	2835.0	2644.5	5529.7	17591.8	28804.1	34692.2
72.5°	917.4	927.5	1195.7	1890.0	2283.6	1930.1	2632.0	11728.7	21785.4	27229.9
75°	621.7	634.2	804.6	1386.2	1832.4	1473.9	1393.7	6289.2	12789.0	15072.6
77.5°	381.0	386.0	518.9	947.5	1371.1	1123.0	897.4	2664.6	4948.2	4857.9
80°	215.6	215.6	330.9	589.1	935.0	724.4	629.2	1133.0	1566.7	1376.2
82.5°	120.3	122.8	240.6	366.0	619.1	428.6	345.9	523.9	676.8	599.1
85°	50.1	55.1	147.9	173.0	295.8	213.1	140.4	220.6	250.7	223.1
87.5°	5.0	7.5	45.1	32.6	35.1	42.6	20.1	42.6	35.1	35.1
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°
5767.8	0°	5767.8	5767.8	5767.8	5767.8	5767.8	5767.8	5767.8	5767.8	5767.8	5767.8
5853.1	2.5°	5805.4	5767.8	5672.6	5562.3	5416.9	5346.7	5251.5	5186.3	5131.1	5136.2
5998.4	5°	5918.2	5823.0	5609.9	5344.2	5013.3	4777.7	4527.0	4354.1	4213.7	4183.6
6199.0	7.5°	6073.6	5923.2	5549.8	5071.0	4512.0	4088.4	3709.9	3466.7	3293.8	3238.6
6442.1	10°	6274.2	6056.1	5472.0	4727.6	3922.9	3384.0	2977.9	2787.4	2669.6	2629.5
6727.9	12.5°	6507.3	6209.0	5369.3	4309.0	3316.3	2797.4	2539.3	2444.0	2406.4	2393.9
7078.8	15°	6800.6	6399.5	5213.9	3812.6	2802.4	2439.0	2328.7	2316.2	2321.2	2316.2
7499.9	17.5°	7149.0	6607.6	4960.7	3301.3	2456.5	2256.0	2215.9	2225.9	2238.5	2235.9
7971.2	20°	7530.0	6813.1	4637.3	2847.6	2220.9	2125.7	2103.1	2113.1	2123.1	2118.1
8515.1	22.5°	7963.7	7033.7	4278.9	2494.1	2063.0	2005.3	1980.3	1982.8	1982.8	1972.7
9204.5	25°	8482.5	7276.8	3902.9	2243.5	1942.7	1897.5	1867.5	1857.4	1842.4	1812.3
10041.7	27.5°	9101.7	7535.0	3541.9	2068.0	1847.4	1804.8	1769.7	1744.6	1707.0	1656.9
11046.9	30°	9798.5	7848.4	3236.1	1957.7	1772.2	1729.6	1689.5	1651.9	1596.7	1534.1
12202.4	32.5°	10618.2	8184.3	3013.0	1885.0	1704.5	1659.4	1611.8	1566.7	1506.5	1443.8
13500.9	35°	11595.8	8590.3	2882.7	1834.9	1651.9	1591.7	1539.1	1489.0	1443.8	1388.7
14912.1	37.5°	12656.1	9021.5	2842.6	1809.8	1616.8	1524.1	1463.9	1428.8	1423.8	1391.2
16438.7	40°	13816.7	9532.8	2872.6	1794.8	1579.2	1458.9	1393.7	1386.2	1398.7	1341.1
18070.5	42.5°	15045.0	10139.5	2922.8	1777.2	1526.6	1393.7	1331.0	1331.0	1321.0	1240.8
19795.1	45°	16373.5	10838.8	2972.9	1734.6	1463.9	1328.5	1280.9	1263.4	1220.7	1143.0
21529.7	47.5°	17712.1	11550.7	3010.5	1656.9	1388.7	1273.4	1230.8	1190.7	1128.0	1057.8
23231.8	50°	18983.0	12189.9	2970.4	1541.6	1303.5	1220.7	1175.6	1120.5	1052.8	1005.2
24843.5	52.5°	20118.5	12743.9	2799.9	1406.2	1213.2	1165.6	1125.5	1067.8	1012.7	962.6
26297.4	55°	21106.1	13192.6	2499.1	1278.4	1133.0	1118.0	1077.9	1005.2	930.0	887.4
27738.7	57.5°	22053.6	13533.5	2123.1	1173.1	1060.3	1065.3	1005.2	940.0	869.8	824.7
29681.4	60°	23314.5	13989.7	1742.1	1075.4	982.6	997.7	932.5	884.9	797.1	739.5
33012.8	62.5°	25329.8	14699.1	1383.7	955.0	892.4	897.4	869.8	812.2	706.9	639.2
35481.8	65°	26929.1	14438.4	1090.4	824.7	789.6	797.1	797.1	734.5	621.7	543.9
35614.7	67.5°	26748.6	12362.9	869.8	696.9	691.8	696.9	714.4	661.8	551.5	488.8
32902.5	70°	24640.5	9833.6	696.9	579.0	601.6	589.1	639.2	604.1	496.3	433.7
25507.8	72.5°	20105.9	7083.8	531.4	478.8	461.2	481.3	576.5	543.9	413.6	343.4
13510.9	75°	11748.7	3780.0	396.1	378.5	333.4	401.1	511.4	463.7	315.8	253.2
4141.0	77.5°	3825.2	1318.5	290.8	278.2	248.2	323.4	436.2	391.0	258.2	200.5
1213.2	80°	1025.2	398.6	198.0	183.0	160.4	240.6	345.9	310.8	185.5	130.3
521.4	82.5°	411.1	167.9	115.3	102.8	87.7	165.4	273.2	250.7	137.9	82.7
162.9	85°	132.9	55.1	42.6	32.6	40.1	102.8	162.9	170.5	97.8	42.6
25.1	87.5°	17.5	7.5	7.5	10.0	7.5	17.5	50.1	47.6	27.6	5.0
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>
5767.8
5086.0
4115.9
3183.5
2599.4
2386.3
2313.7
2230.9
2115.6
1967.7
1807.3
1651.9
1529.1
1446.3
1383.7
1388.7
1343.6
1240.8
1140.5
1055.3
997.7
957.5
882.3
819.7
731.9
634.2
536.4
478.8
426.1
335.9
245.7
193.0
127.8
82.7
32.6
0.0
0.0

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