

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: P944404

Luminaire Tested: **GALN-SB9B-830-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944404
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-SB9B-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 450mA 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: 33653 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

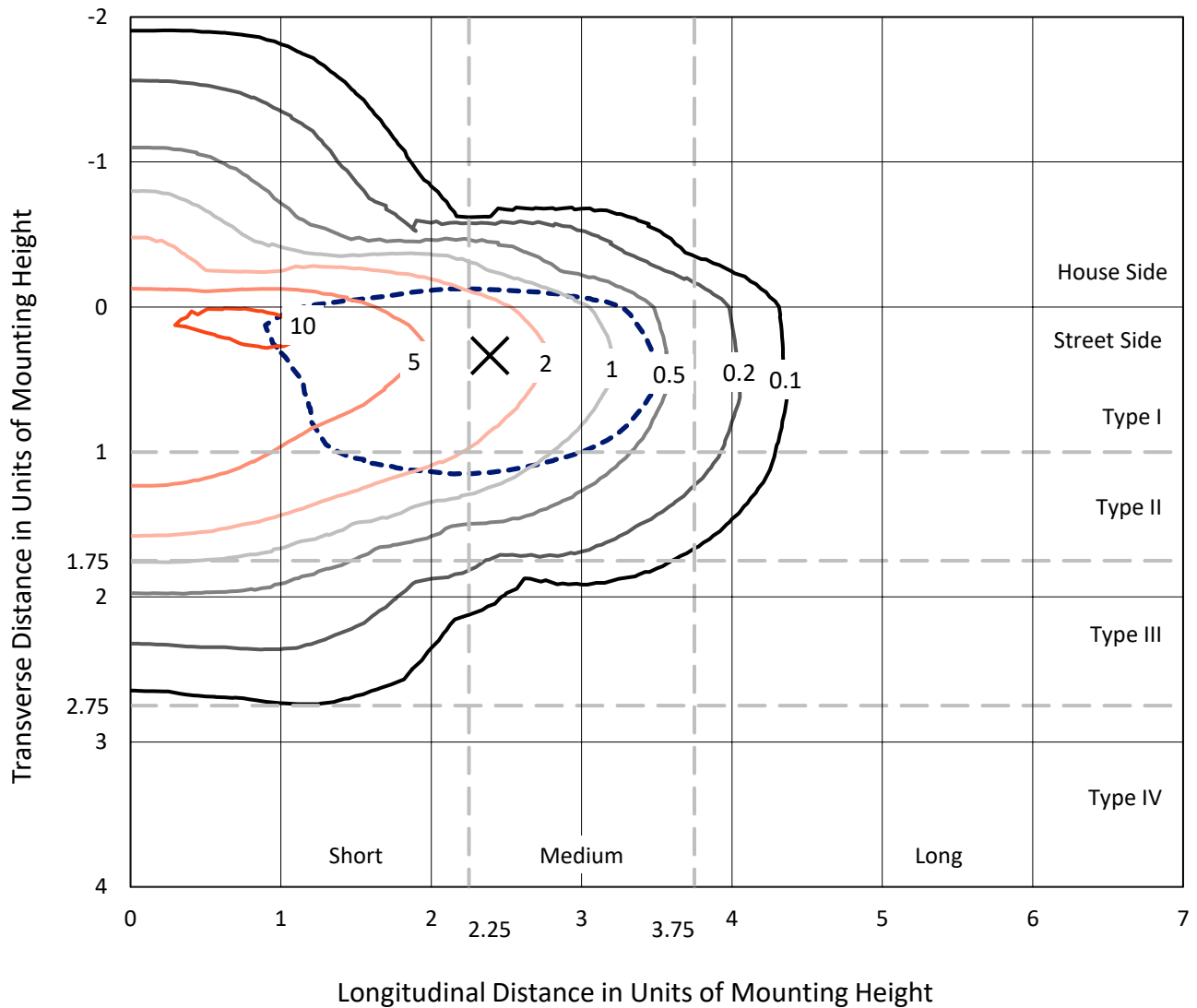
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

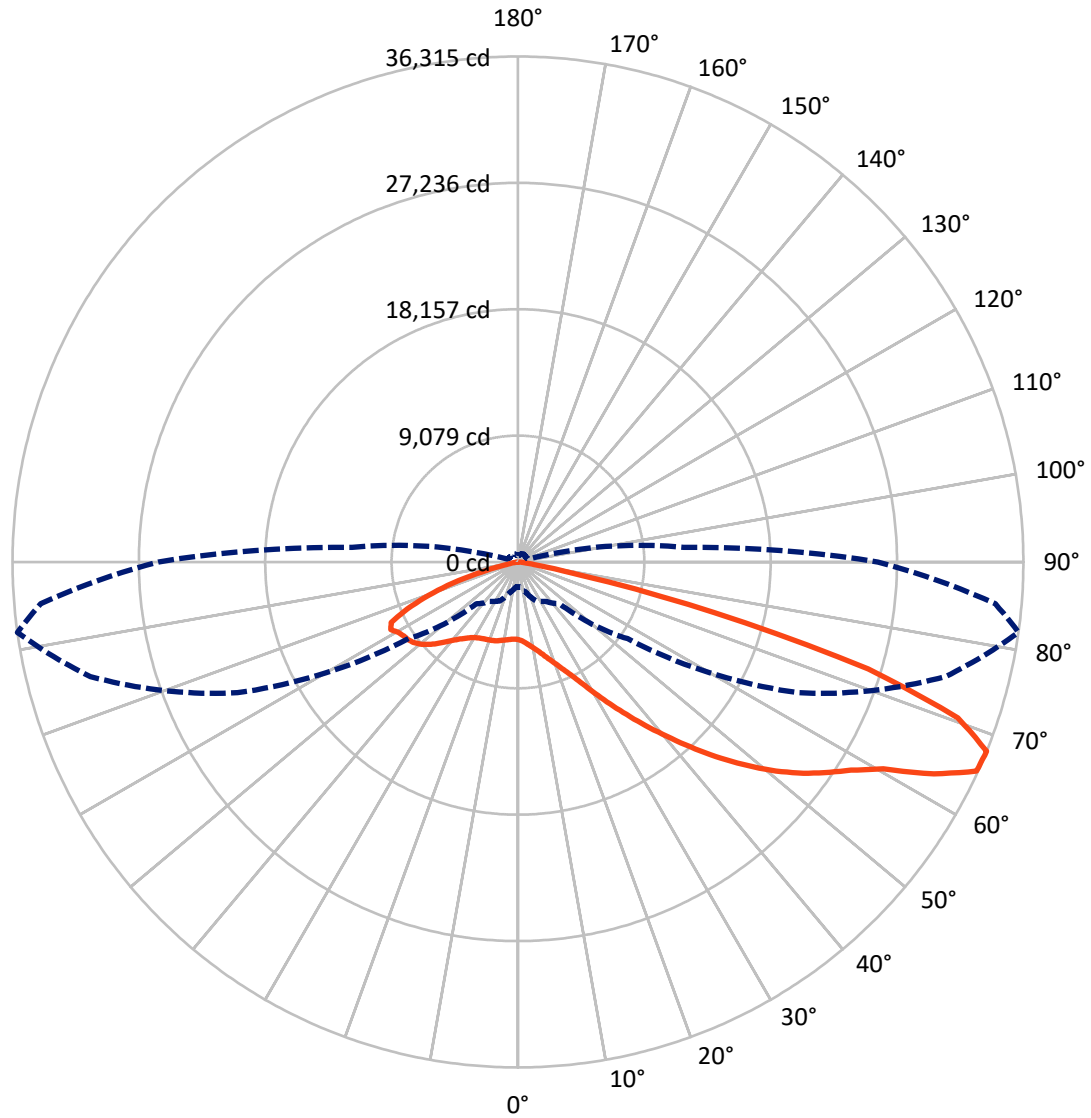
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6096.0	0.0	6096.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	27557.1	0.0	27557.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	33653.0	0.0	33653.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.7	1.5
10°-20°	1290.7	3.8
20°-30°	2067.3	6.1
30°-40°	3655.7	10.9
40°-50°	6405.2	19.0
50°-60°	8542.7	25.4
60°-70°	7952.8	23.6
70°-80°	3052.3	9.1
80°-90°	189.6	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°	33653.0	100.0
0°-180°	33653.0	100.0

Coefficient of Utilization



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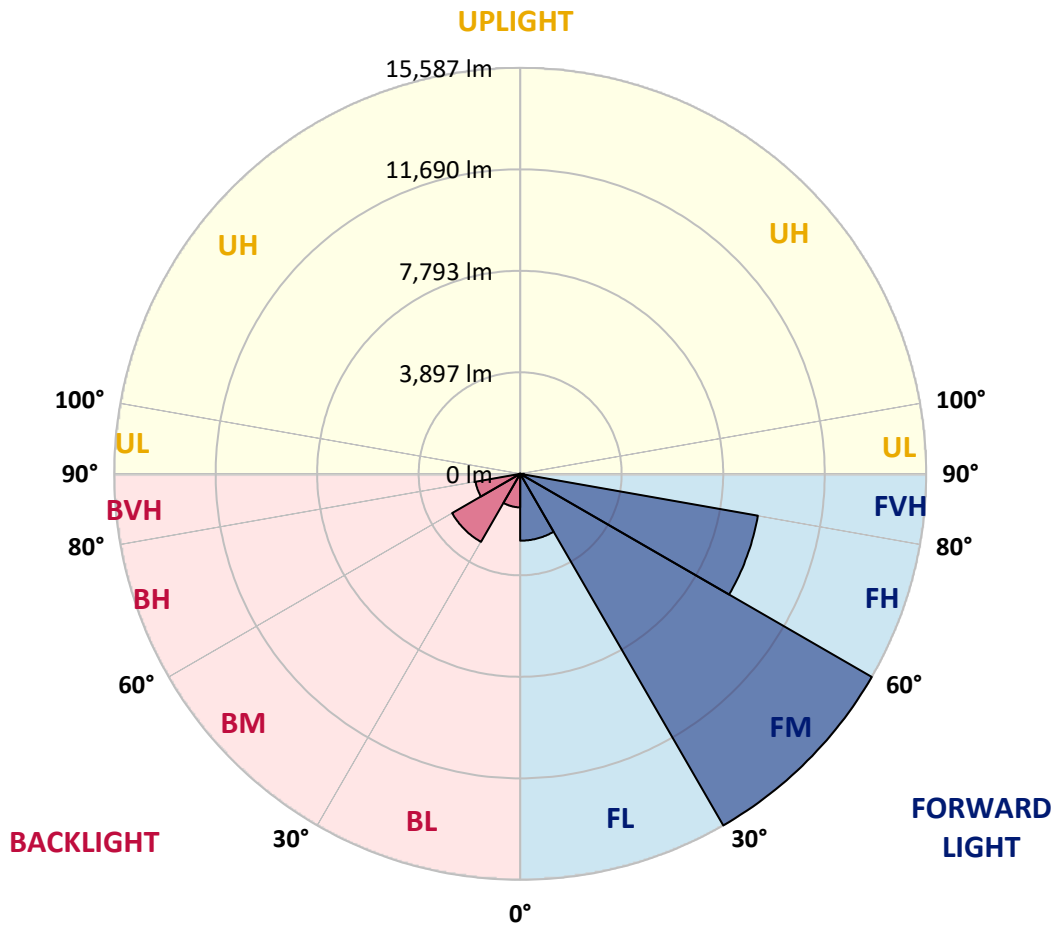
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2567.3	7.6			
FM (30°-60°)	15586.7	46.3			
FH (60°-80°)	9265.2	27.5			G4/12000
FVH (80°-90°)	137.8	0.4			G2/225
BL (0°-30°)	1287.4	3.8	B3/2500		
BM (30°-60°)	3016.9	9.0	B3/5000		
BH (60°-80°)	1739.9	5.2	B3/2500		G3/2500
BVH (80°-90°)	51.8	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°	5575.2	5575.2	5575.2	5575.2	5575.2	5575.2	5575.2	5575.2	5575.2	5575.2
2.5°	5892.6	5926.5	5907.1	5897.4	5880.5	5856.2	5836.8	5776.3	5713.3	5672.1
5°	6011.3	6045.2	6042.8	6052.5	6064.6	6071.9	6067.0	5999.2	5909.5	5839.3
7.5°	5909.5	5948.3	5979.8	6028.3	6113.1	6202.7	6246.3	6231.8	6139.7	6042.8
10°	5621.2	5662.4	5737.5	5851.4	6030.7	6224.5	6386.8	6462.0	6403.8	6297.2
12.5°	5093.0	5134.2	5282.0	5529.1	5829.6	6166.4	6476.5	6677.6	6692.1	6585.5
15°	4499.4	4540.6	4698.1	5008.2	5466.1	6006.4	6525.0	6905.4	7033.8	6941.7
17.5°	4131.1	4167.4	4286.2	4535.7	5013.0	5686.6	6508.0	7147.6	7440.8	7368.1
20°	4019.6	4051.1	4106.9	4281.3	4678.7	5354.7	6396.5	7375.4	7879.4	7838.2
22.5°	4138.4	4167.4	4184.4	4261.9	4511.5	5136.6	6256.0	7608.0	8388.2	8393.0
25°	4412.2	4441.2	4421.8	4470.3	4579.3	5068.8	6202.7	7881.8	9027.8	9081.1
27.5°	4862.8	4865.2	4819.2	4816.8	4833.7	5170.5	6258.4	8175.0	9834.7	9934.0
30°	5766.6	5730.2	5553.4	5361.9	5274.7	5475.8	6413.5	8521.4	10786.9	10963.8
32.5°	7159.8	7106.5	6781.8	6323.8	5863.5	5967.7	6692.1	8916.4	11823.9	12143.7
35°	8671.7	8657.1	8317.9	7637.1	6832.7	6667.9	7145.2	9434.9	12955.4	13464.2
37.5°	10077.0	10069.7	9875.9	9073.9	8095.0	7644.3	7872.1	10113.3	14166.9	14903.4
40°	11361.1	11382.9	11189.1	10471.9	9485.8	8897.0	8860.7	10951.6	15514.0	16471.1
42.5°	12470.8	12495.1	12298.8	11768.2	10859.6	10282.9	10074.5	11979.0	16829.7	18155.0
45°	13224.4	13374.6	13345.5	12921.5	12269.7	11671.3	11533.1	13268.0	18329.5	19940.7
47.5°	13437.6	13575.7	13793.7	13851.9	13454.5	12865.8	13030.5	14821.1	19846.2	21728.8
50°	12911.8	13040.2	13493.3	14096.6	14372.8	14191.1	14486.7	16485.6	21399.3	23512.1
52.5°	11874.8	12005.6	12577.4	13532.1	14658.7	15230.5	15947.7	18125.9	22904.0	25200.9
55°	10375.0	10513.1	11247.2	12327.9	14113.6	15659.4	17166.5	19763.8	24282.6	26720.1
57.5°	8334.9	8436.6	9199.9	10711.8	12742.2	15233.0	18065.4	21552.0	25581.3	28212.6
60°	5432.2	5521.9	6408.7	8095.0	10469.5	13808.3	18244.7	23546.0	27306.4	30153.4
62.5°	3612.6	3673.2	4198.9	5437.1	7373.0	11072.8	17195.5	25137.9	29836.0	33530.9
65°	2478.7	2539.2	3065.0	3927.6	4763.5	7324.5	14179.0	24927.1	32128.1	36213.1
67.5°	1768.7	1819.6	2265.4	3079.5	3447.8	4254.7	9611.8	22232.8	31798.5	36314.9
70°	1267.2	1296.3	1664.6	2398.7	2740.3	2556.2	5345.0	17004.1	27841.9	33533.4
72.5°	886.8	896.5	1155.7	1826.9	2207.3	1865.7	2544.1	11336.9	21057.7	26320.3
75°	600.9	613.0	777.8	1339.9	1771.2	1424.7	1347.1	6079.1	12361.8	14569.1
77.5°	368.3	373.1	501.5	915.9	1325.3	1085.5	867.4	2575.6	4782.9	4695.6
80°	208.4	208.4	319.8	569.4	903.8	700.2	608.2	1095.2	1514.3	1330.2
82.5°	116.3	118.7	232.6	353.7	598.5	414.3	334.4	506.4	654.2	579.1
85°	48.5	53.3	143.0	167.2	285.9	205.9	135.7	213.2	242.3	215.6
87.5°	4.8	7.3	43.6	31.5	33.9	41.2	19.4	41.2	33.9	33.9
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°
5575.2	0°	5575.2	5575.2	5575.2	5575.2	5575.2	5575.2	5575.2	5575.2	5575.2	5575.2
5657.5	2.5°	5611.5	5575.2	5483.1	5376.5	5236.0	5168.1	5076.0	5013.0	4959.7	4964.6
5798.1	5°	5720.5	5628.5	5422.5	5165.7	4845.9	4618.1	4375.8	4208.6	4072.9	4043.9
5991.9	7.5°	5870.8	5725.4	5364.4	4901.6	4361.3	3951.8	3585.9	3350.9	3183.7	3130.4
6226.9	10°	6064.6	5853.8	5289.3	4569.6	3791.9	3271.0	2878.4	2694.3	2580.4	2541.7
6503.1	12.5°	6289.9	6001.6	5189.9	4165.0	3205.5	2704.0	2454.4	2362.4	2326.0	2313.9
6842.4	15°	6573.4	6185.7	5039.7	3685.3	2708.8	2357.5	2250.9	2238.8	2243.6	2238.8
7249.4	17.5°	6910.2	6386.8	4795.0	3191.0	2374.5	2180.6	2141.9	2151.6	2163.7	2161.3
7704.9	20°	7278.5	6585.5	4482.4	2752.4	2146.7	2054.6	2032.8	2042.5	2052.2	2047.4
8230.7	22.5°	7697.7	6798.7	4135.9	2410.8	1994.1	1938.3	1914.1	1916.5	1916.5	1906.8
8897.0	25°	8199.2	7033.8	3772.5	2168.5	1877.8	1834.2	1805.1	1795.4	1780.9	1751.8
9706.3	27.5°	8797.7	7283.3	3423.6	1998.9	1785.7	1744.5	1710.6	1686.4	1650.0	1601.6
10677.9	30°	9471.2	7586.2	3128.0	1892.3	1713.0	1671.8	1633.1	1596.7	1543.4	1482.8
11794.8	32.5°	10263.5	7910.9	2912.4	1822.0	1647.6	1604.0	1557.9	1514.3	1456.2	1395.6
13049.9	35°	11208.5	8303.4	2786.4	1773.6	1596.7	1538.6	1487.7	1439.2	1395.6	1342.3
14414.0	37.5°	12233.4	8720.1	2747.6	1749.4	1562.8	1473.1	1415.0	1381.1	1376.2	1344.7
15889.6	40°	13355.2	9214.4	2776.7	1734.8	1526.4	1410.1	1347.1	1339.9	1352.0	1296.3
17466.9	42.5°	14542.4	9800.8	2825.1	1717.9	1475.6	1347.1	1286.6	1286.6	1276.9	1199.4
19133.9	45°	15826.6	10476.8	2873.6	1676.7	1415.0	1284.2	1238.1	1221.2	1180.0	1104.9
20810.6	47.5°	17120.4	11164.9	2909.9	1601.6	1342.3	1230.8	1189.7	1150.9	1090.3	1022.5
22455.7	50°	18348.9	11782.7	2871.2	1490.1	1259.9	1180.0	1136.4	1083.0	1017.6	971.6
24013.7	52.5°	19446.4	12318.2	2706.4	1359.3	1172.7	1126.7	1087.9	1032.2	978.9	930.4
25419.0	55°	20401.1	12751.9	2415.7	1235.7	1095.2	1080.6	1041.9	971.6	898.9	857.7
26812.1	57.5°	21316.9	13081.4	2052.2	1133.9	1024.9	1029.7	971.6	908.6	840.8	797.1
28689.9	60°	22535.7	13522.4	1683.9	1039.4	949.8	964.3	901.3	855.3	770.5	714.8
31910.0	62.5°	24483.7	14208.1	1337.5	923.1	862.6	867.4	840.8	785.0	683.3	617.8
34296.6	65°	26029.5	13956.1	1054.0	797.1	763.2	770.5	770.5	709.9	600.9	525.8
34425.0	67.5°	25855.1	11949.9	840.8	673.6	668.7	673.6	690.5	639.7	533.0	472.5
31803.4	70°	23817.4	9505.2	673.6	559.7	581.5	569.4	617.8	583.9	479.7	419.2
24655.7	72.5°	19434.3	6847.2	513.7	462.8	445.8	465.2	557.3	525.8	399.8	331.9
13059.6	75°	11356.3	3653.8	382.8	365.9	322.2	387.7	494.3	448.2	305.3	244.7
4002.7	77.5°	3697.4	1274.5	281.1	268.9	239.9	312.6	421.6	378.0	249.6	193.8
1172.7	80°	991.0	385.2	191.4	176.9	155.1	232.6	334.4	300.4	179.3	126.0
504.0	82.5°	397.4	162.3	111.5	99.3	84.8	159.9	264.1	242.3	133.3	80.0
157.5	85°	128.4	53.3	41.2	31.5	38.8	99.3	157.5	164.8	94.5	41.2
24.2	87.5°	17.0	7.3	7.3	9.7	7.3	17.0	48.5	46.0	26.7	4.8
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>
5575.2
4916.1
3978.5
3077.1
2512.6
2306.6
2236.4
2156.4
2045.0
1902.0
1746.9
1596.7
1478.0
1398.0
1337.5
1342.3
1298.7
1199.4
1102.4
1020.1
964.3
925.6
852.9
792.3
707.5
613.0
518.5
462.8
411.9
324.7
237.4
186.6
123.6
80.0
31.5
0.0
0.0

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