

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: P942104

Luminaire Tested: **GALN-SB5D-950-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942104
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-950-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 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: 26112 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

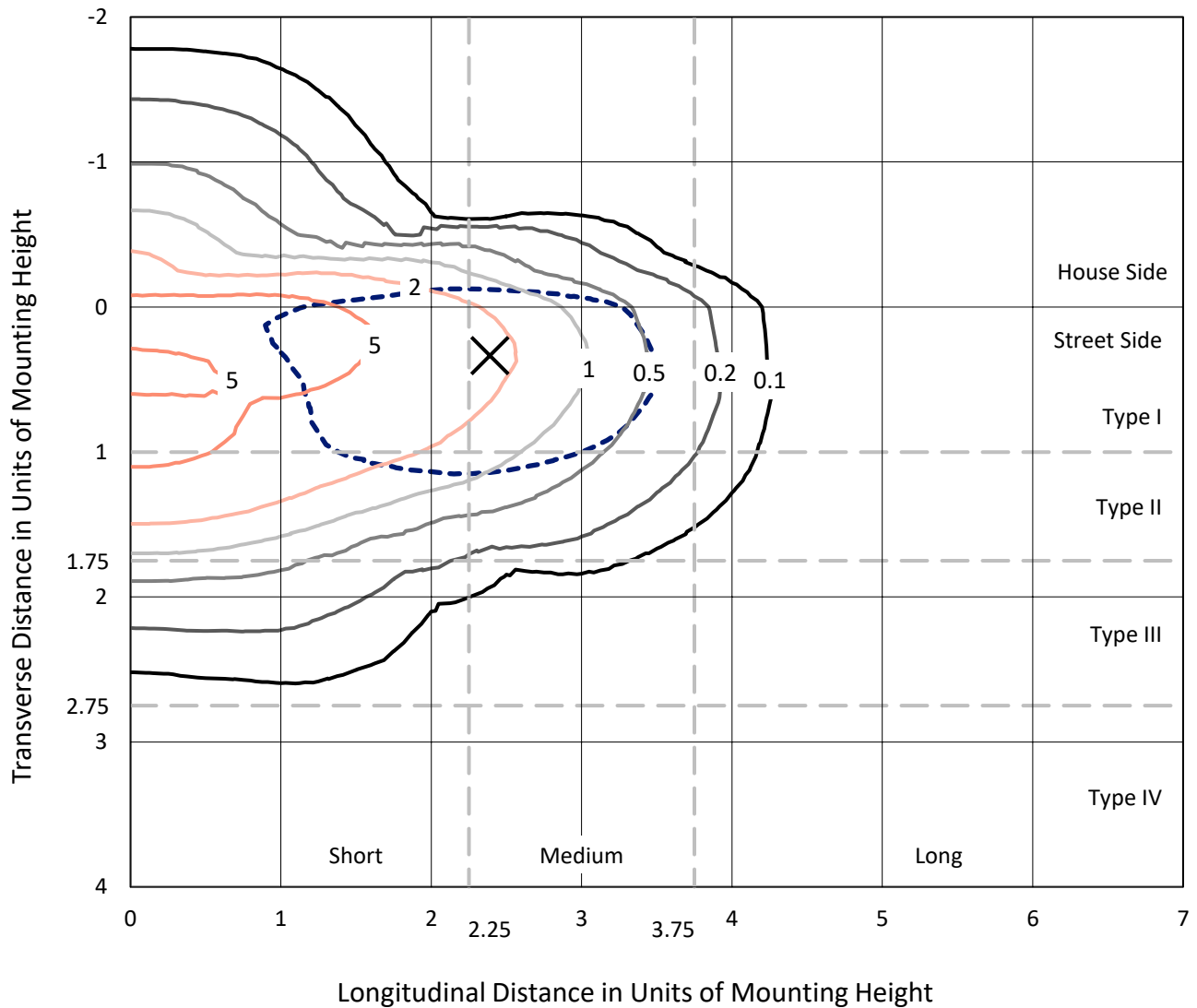
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

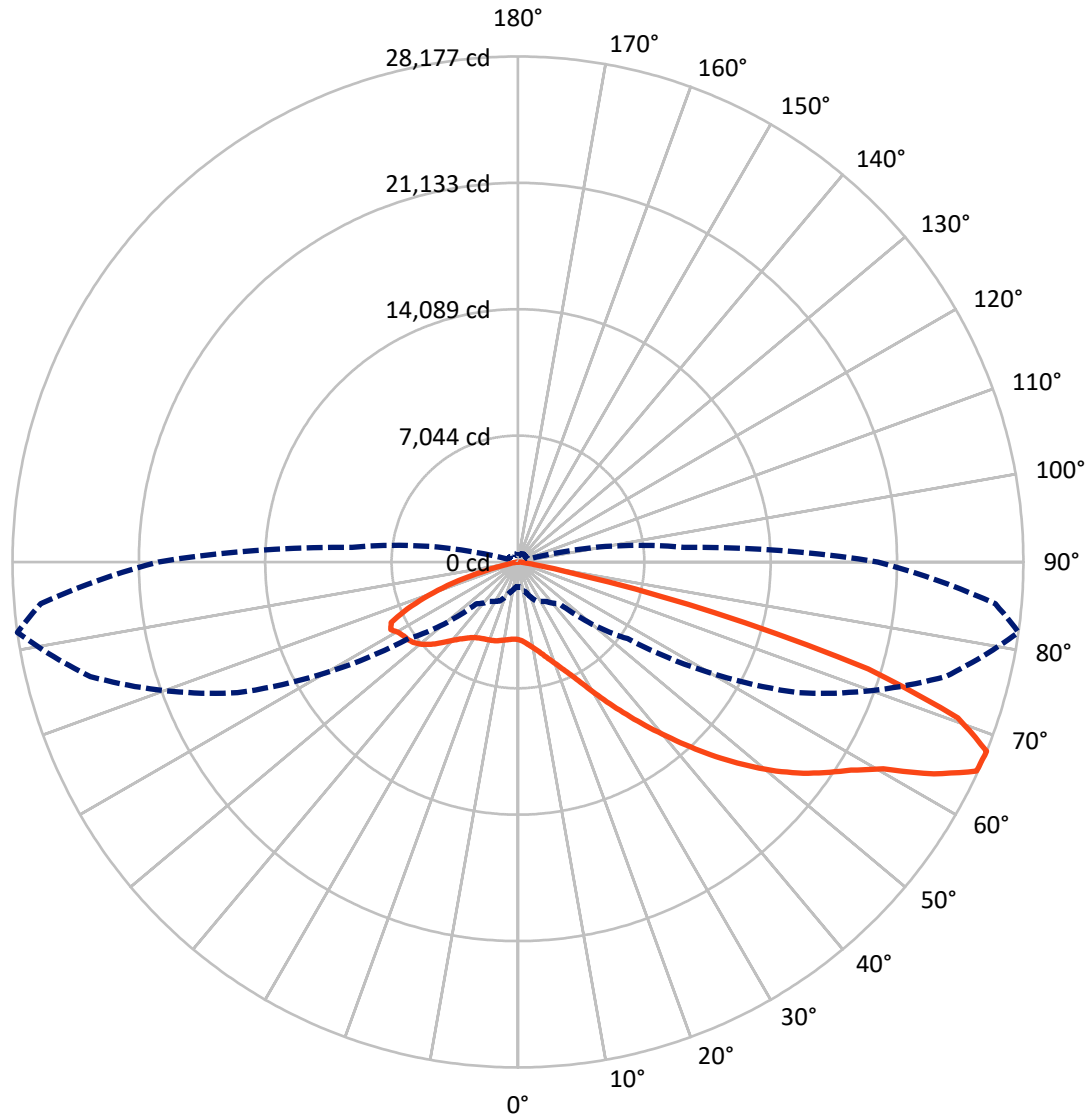
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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	4730.0	0.0	4730.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	21382.0	0.0	21382.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	26112.0	0.0	26112.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.4	1.5
10°-20°	1001.5	3.8
20°-30°	1604.1	6.1
30°-40°	2836.5	10.9
40°-50°	4969.9	19.0
50°-60°	6628.4	25.4
60°-70°	6170.7	23.6
70°-80°	2368.3	9.1
80°-90°	147.1	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°	26112.0	100.0
0°-180°	26112.0	100.0

Coefficient of Utilization



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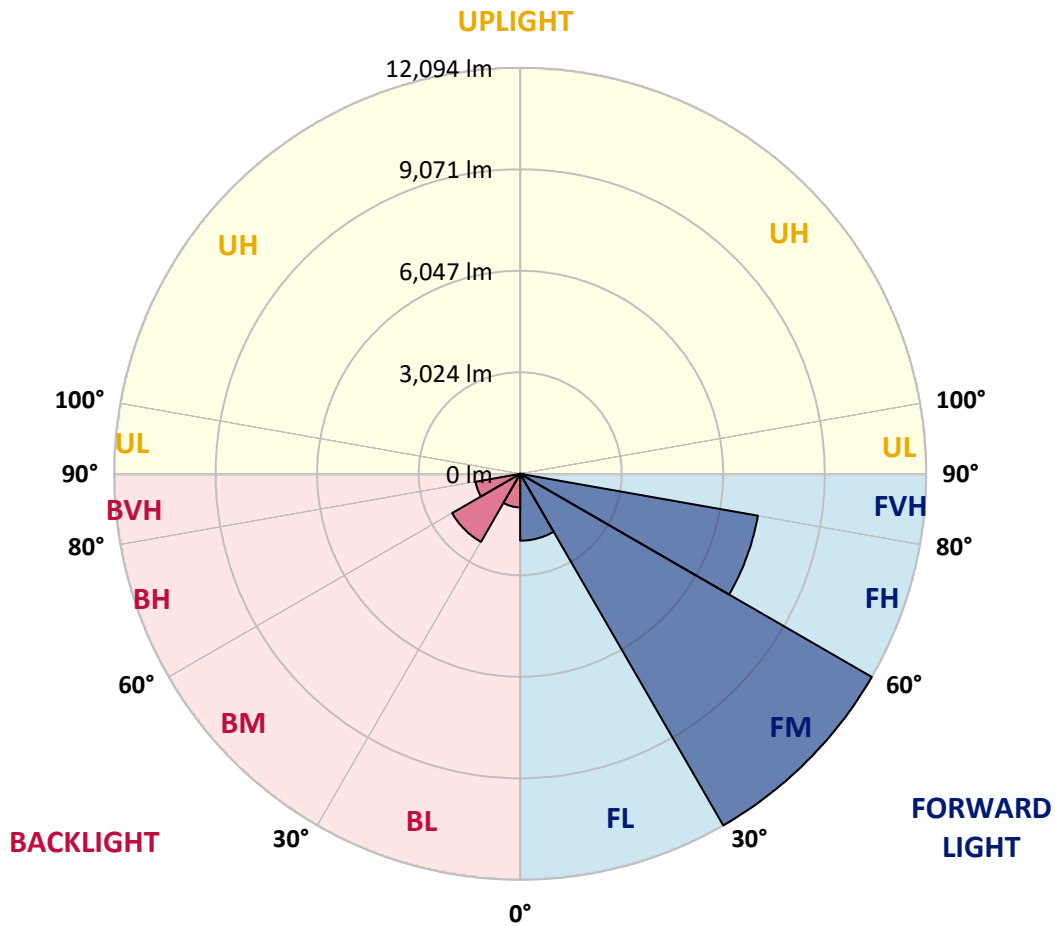
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1992.1	7.6			
FM (30°-60°)	12094.0	46.3			
FH (60°-80°)	7189.0	27.5			G3/7500
FVH (80°-90°)	106.9	0.4			G2/225
BL (0°-30°)	999.0	3.8	B2/1000		
BM (30°-60°)	2340.8	9.0	B2/2500		
BH (60°-80°)	1350.0	5.2	B3/2500		G3/2500
BVH (80°-90°)	40.2	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4325.9	4325.9	4325.9	4325.9	4325.9	4325.9	4325.9	4325.9	4325.9	4325.9
2.5°	4572.2	4598.5	4583.4	4575.9	4562.8	4544.0	4528.9	4481.9	4433.0	4401.1
5°	4664.3	4690.6	4688.7	4696.2	4705.6	4711.3	4707.5	4654.9	4585.3	4530.8
7.5°	4585.3	4615.4	4639.8	4677.4	4743.2	4812.8	4846.6	4835.4	4763.9	4688.7
10°	4361.6	4393.6	4451.8	4540.2	4679.3	4829.7	4955.7	5014.0	4968.8	4886.1
12.5°	3951.8	3983.7	4098.4	4290.2	4523.3	4784.6	5025.2	5181.3	5192.6	5109.8
15°	3491.2	3523.1	3645.3	3886.0	4241.3	4660.5	5062.8	5358.0	5457.6	5386.2
17.5°	3205.4	3233.6	3325.7	3519.4	3889.7	4412.4	5049.7	5546.0	5773.5	5717.1
20°	3118.9	3143.4	3186.6	3322.0	3630.3	4154.8	4963.2	5722.7	6113.8	6081.8
22.5°	3211.0	3233.6	3246.8	3306.9	3500.6	3985.6	4854.2	5903.2	6508.6	6512.3
25°	3423.5	3446.0	3431.0	3468.6	3553.2	3933.0	4812.8	6115.6	7004.9	7046.2
27.5°	3773.2	3775.0	3739.3	3737.4	3750.6	4011.9	4856.0	6343.1	7630.9	7708.0
30°	4474.4	4446.2	4309.0	4160.4	4092.8	4248.8	4976.4	6612.0	8369.7	8507.0
32.5°	5555.4	5514.0	5262.1	4906.8	4549.6	4630.4	5192.6	6918.4	9174.4	9422.5
35°	6728.5	6717.2	6454.0	5925.8	5301.6	5173.8	5544.1	7320.7	10052.3	10447.1
37.5°	7818.9	7813.3	7662.9	7040.6	6281.1	5931.4	6108.1	7847.1	10992.3	11563.9
40°	8815.3	8832.2	8681.8	8125.4	7360.2	6903.4	6875.2	8497.6	12037.6	12780.2
42.5°	9676.3	9695.1	9542.9	9131.1	8426.1	7978.7	7817.0	9294.7	13058.5	14086.8
45°	10261.0	10377.6	10355.0	10026.0	9520.3	9055.9	8948.8	10294.9	14222.2	15472.4
47.5°	10426.5	10533.6	10702.8	10747.9	10439.6	9982.8	10110.6	11499.9	15399.1	16859.8
50°	10018.5	10118.1	10469.7	10937.8	11152.1	11011.1	11240.5	12791.5	16604.1	18243.5
52.5°	9213.9	9315.4	9759.1	10499.8	11374.0	11817.7	12374.1	14064.3	17771.6	19553.9
55°	8050.2	8157.3	8726.9	9565.4	10951.0	12150.4	13319.8	15335.1	18841.3	20732.6
57.5°	6467.2	6546.2	7138.4	8311.5	9886.9	11819.5	14017.3	16722.6	19849.0	21890.7
60°	4215.0	4284.5	4972.6	6281.1	8123.5	10714.1	14156.4	18269.8	21187.6	23396.6
62.5°	2803.1	2850.1	3258.0	4218.7	5720.8	8591.6	13342.3	19505.0	23150.3	26017.3
65°	1923.2	1970.2	2378.2	3047.5	3696.1	5683.2	11001.7	19341.4	24928.8	28098.4
67.5°	1372.4	1411.9	1757.8	2389.5	2675.2	3301.3	7458.0	17250.9	24673.1	28177.4
70°	983.2	1005.8	1291.6	1861.2	2126.3	1983.4	4147.3	13193.8	21603.1	26019.2
72.5°	688.1	695.6	896.8	1417.5	1712.7	1447.6	1974.0	8796.5	16339.1	20422.4
75°	466.2	475.6	603.5	1039.6	1374.3	1105.4	1045.3	4716.9	9591.7	11304.4
77.5°	285.8	289.5	389.2	710.6	1028.4	842.2	673.0	1998.4	3711.1	3643.4
80°	161.7	161.7	248.2	441.8	701.2	543.3	471.9	849.8	1175.0	1032.1
82.5°	90.2	92.1	180.5	274.5	464.4	321.5	259.4	392.9	507.6	449.3
85°	37.6	41.4	110.9	129.7	221.8	159.8	105.3	165.4	188.0	167.3
87.5°	3.8	5.6	33.8	24.4	26.3	32.0	15.0	32.0	26.3	26.3
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°
4325.9	0°	4325.9	4325.9	4325.9	4325.9	4325.9	4325.9	4325.9	4325.9	4325.9	4325.9
4389.8	2.5°	4354.1	4325.9	4254.4	4171.7	4062.7	4010.0	3938.6	3889.7	3848.4	3852.1
4498.8	5°	4438.7	4367.2	4207.4	4008.2	3760.0	3583.3	3395.3	3265.6	3160.3	3137.7
4649.2	7.5°	4555.2	4442.4	4162.3	3803.2	3384.0	3066.3	2782.4	2600.0	2470.3	2429.0
4831.6	10°	4705.6	4542.1	4104.0	3545.7	2942.2	2538.0	2233.4	2090.6	2002.2	1972.1
5045.9	12.5°	4880.5	4656.8	4027.0	3231.7	2487.2	2098.1	1904.4	1833.0	1804.8	1795.4
5309.1	15°	5100.4	4799.6	3910.4	2859.5	2101.8	1829.2	1746.5	1737.1	1740.9	1737.1
5625.0	17.5°	5361.8	4955.7	3720.5	2476.0	1842.4	1692.0	1661.9	1669.4	1678.8	1677.0
5978.4	20°	5647.5	5109.8	3478.0	2135.7	1665.7	1594.2	1577.3	1584.8	1592.4	1588.6
6386.4	22.5°	5972.8	5275.3	3209.2	1870.6	1547.2	1504.0	1485.2	1487.1	1487.1	1479.6
6903.4	25°	6361.9	5457.6	2927.2	1682.6	1457.0	1423.2	1400.6	1393.1	1381.8	1359.2
7531.3	27.5°	6826.3	5651.3	2656.4	1551.0	1385.6	1353.6	1327.3	1308.5	1280.3	1242.7
8285.1	30°	7348.9	5886.3	2427.1	1468.3	1329.2	1297.2	1267.1	1238.9	1197.6	1150.6
9151.8	32.5°	7963.7	6138.2	2259.8	1413.8	1278.4	1244.6	1208.8	1175.0	1129.9	1082.9
10125.7	35°	8696.9	6442.8	2162.0	1376.2	1238.9	1193.8	1154.3	1116.7	1082.9	1041.5
11184.1	37.5°	9492.1	6766.1	2131.9	1357.4	1212.6	1143.0	1097.9	1071.6	1067.8	1043.4
12329.0	40°	10362.5	7149.6	2154.5	1346.1	1184.4	1094.2	1045.3	1039.6	1049.0	1005.8
13552.9	42.5°	11283.7	7604.6	2192.1	1332.9	1144.9	1045.3	998.3	998.3	990.8	930.6
14846.3	45°	12280.1	8129.1	2229.7	1301.0	1097.9	996.4	960.7	947.5	915.6	857.3
16147.3	47.5°	13284.1	8663.0	2257.9	1242.7	1041.5	955.0	923.1	893.0	846.0	793.4
17423.8	50°	14237.2	9142.4	2227.8	1156.2	977.6	915.6	881.7	840.4	789.6	753.9
18632.7	52.5°	15088.9	9557.9	2100.0	1054.7	909.9	874.2	844.1	800.9	759.5	721.9
19723.1	55°	15829.6	9894.4	1874.4	958.8	849.8	838.5	808.4	753.9	697.5	665.5
20804.1	57.5°	16540.2	10150.1	1592.4	879.8	795.2	799.0	753.9	705.0	652.4	618.5
22261.1	60°	17485.9	10492.3	1306.6	806.5	737.0	748.2	699.4	663.6	597.8	554.6
24759.6	62.5°	18997.4	11024.3	1037.8	716.3	669.3	673.0	652.4	609.1	530.2	479.4
26611.4	65°	20196.8	10828.8	817.8	618.5	592.2	597.8	597.8	550.8	466.2	408.0
26711.0	67.5°	20061.5	9272.1	652.4	522.6	518.9	522.6	535.8	496.3	413.6	366.6
24676.8	70°	18480.4	7375.2	522.6	434.3	451.2	441.8	479.4	453.1	372.2	325.2
19130.9	72.5°	15079.5	5312.9	398.6	359.1	345.9	361.0	432.4	408.0	310.2	257.6
10133.2	75°	8811.5	2835.0	297.0	283.9	250.0	300.8	383.5	347.8	236.9	189.9
3105.8	77.5°	2868.9	988.9	218.1	208.7	186.1	242.5	327.1	293.3	193.6	150.4
909.9	80°	768.9	298.9	148.5	137.2	120.3	180.5	259.4	233.1	139.1	97.8
391.0	82.5°	308.3	126.0	86.5	77.1	65.8	124.1	204.9	188.0	103.4	62.0
122.2	85°	99.6	41.4	32.0	24.4	30.1	77.1	122.2	127.8	73.3	32.0
18.8	87.5°	13.2	5.6	5.6	7.5	5.6	13.2	37.6	35.7	20.7	3.8
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>
4325.9
3814.5
3087.0
2387.6
1949.6
1789.8
1735.2
1673.2
1586.7
1475.8
1355.5
1238.9
1146.8
1084.8
1037.8
1041.5
1007.7
930.6
855.4
791.5
748.2
718.2
661.8
614.8
549.0
475.6
402.3
359.1
319.6
251.9
184.2
144.8
95.9
62.0
24.4
0.0
0.0

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