

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: P943424

Luminaire Tested: **GALN-SB7D-927-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943424  
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-927-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

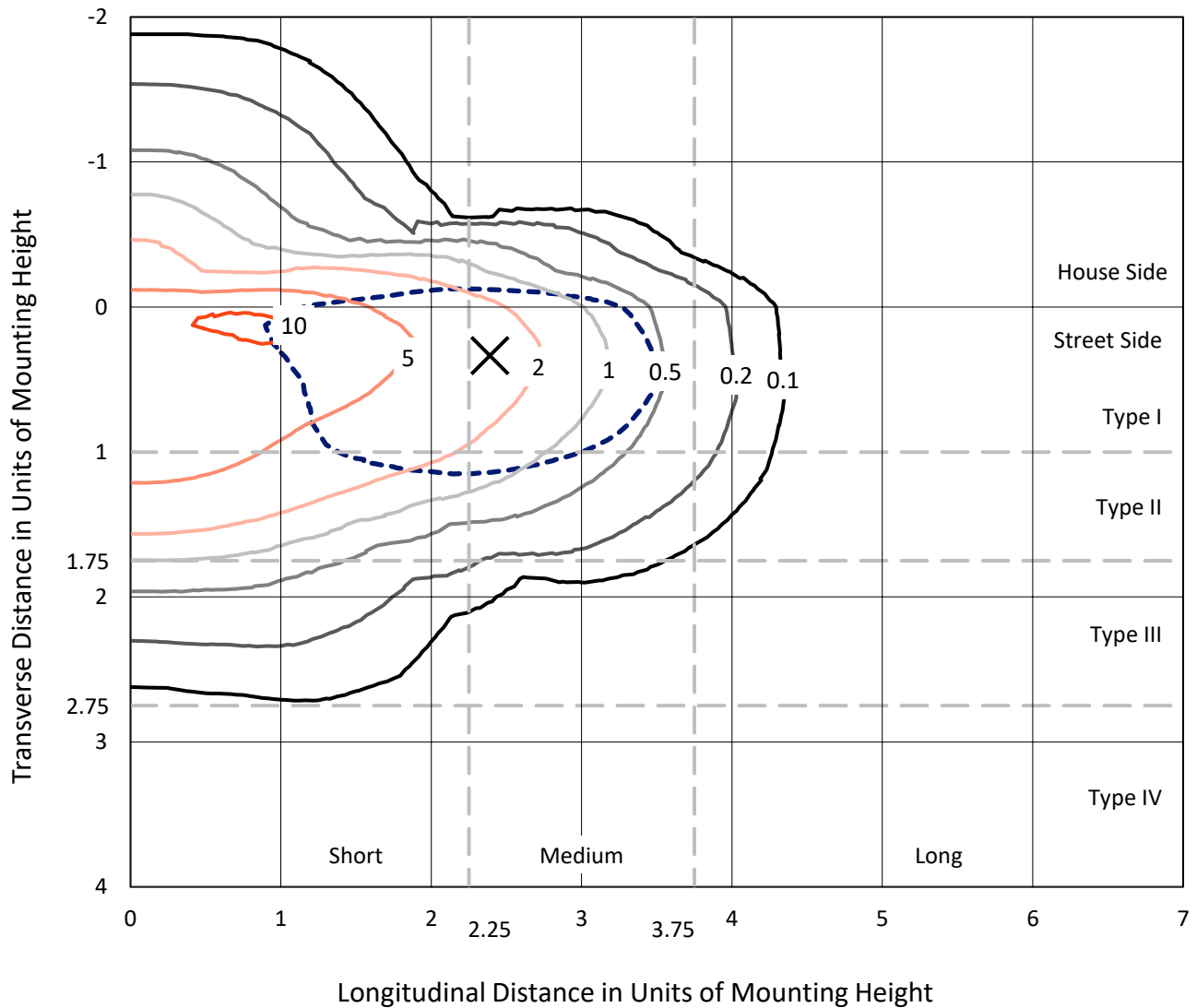
Lumens per Lamp: N/A  
Luminaire Lumens: 32167 lumens  
Efficiency: N/A  
Efficacy: 62.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): 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

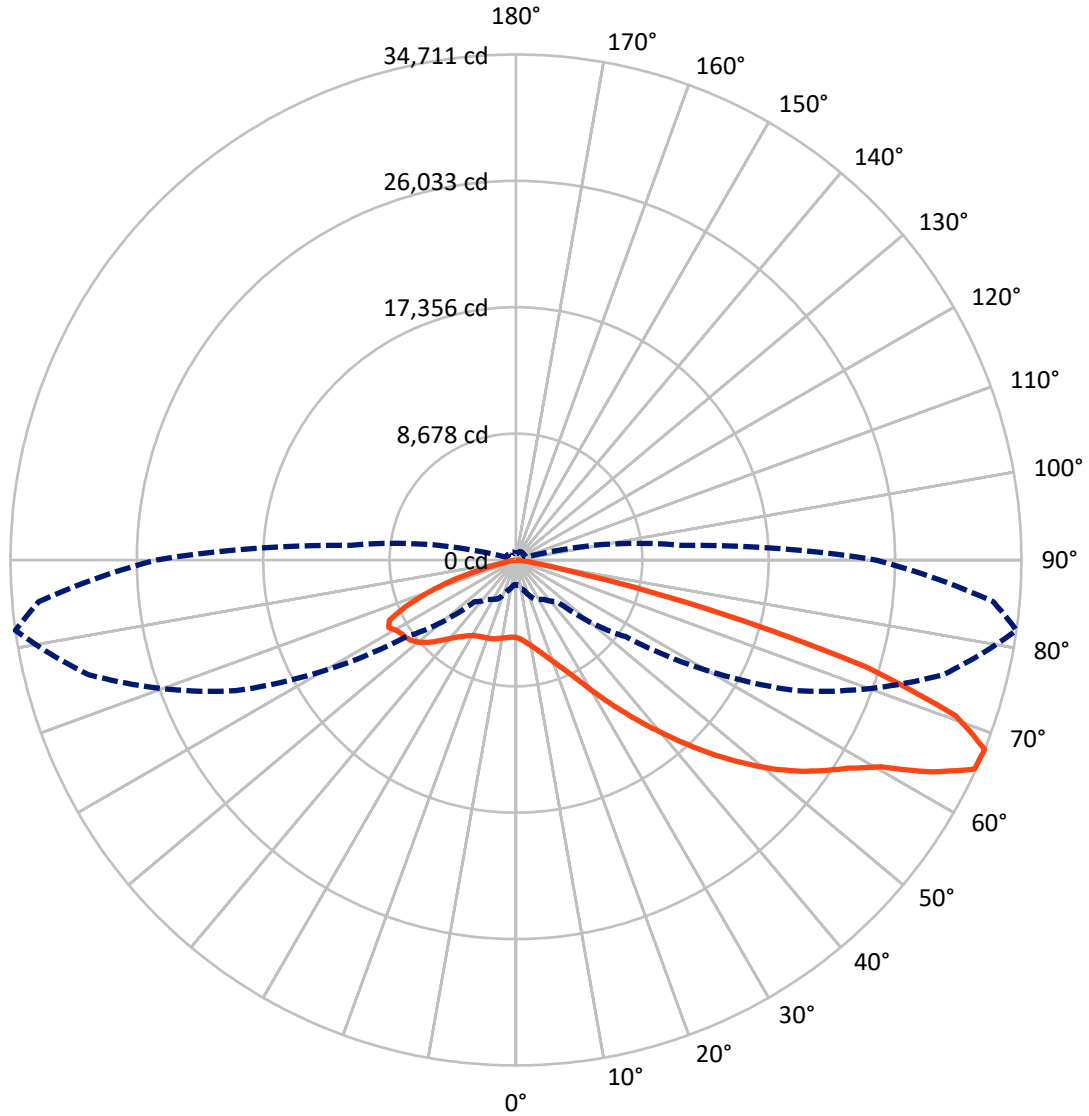
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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
<b>House Side</b>	Lumens	5826.8	0.0	5826.8
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	26340.2	0.0	26340.2
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	32167.0	0.0	32167.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	474.8	1.5
10°-20°	1233.7	3.8
20°-30°	1976.1	6.1
30°-40°	3494.3	10.9
40°-50°	6122.3	19.0
50°-60°	8165.5	25.4
60°-70°	7601.6	23.6
70°-80°	2917.5	9.1
80°-90°	181.2	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°	32167.0	100.0
0°-180°	32167.0	100.0

**Coefficient of Utilization**



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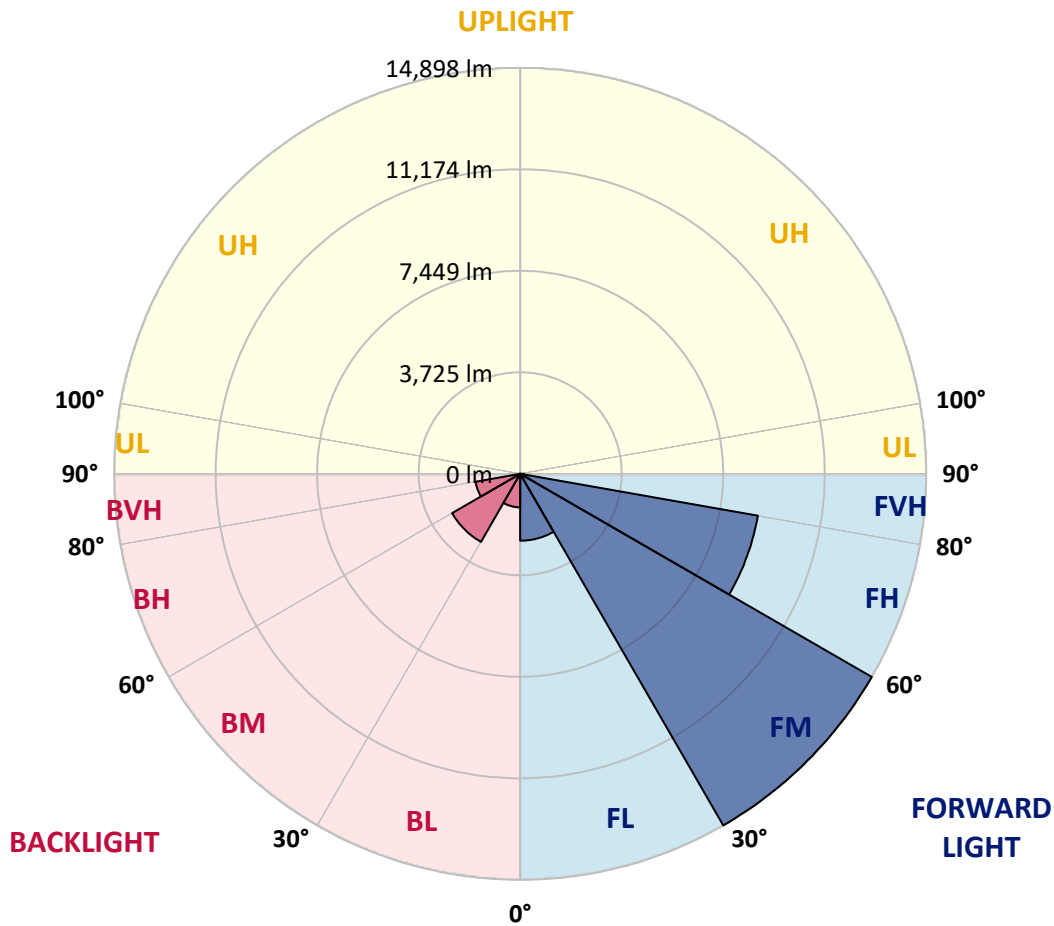
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2454.0	7.6			
FM (30°-60°)	14898.4	46.3			
FH (60°-80°)	8856.1	27.5			G4/12000
FVH (80°-90°)	131.7	0.4			G2/225
BL (0°-30°)	1230.6	3.8	B3/2500		
BM (30°-60°)	2883.6	9.0	B3/5000		
BH (60°-80°)	1663.1	5.2	B3/2500		G3/2500
BVH (80°-90°)	49.5	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°	5329.0	5329.0	5329.0	5329.0	5329.0	5329.0	5329.0	5329.0	5329.0	5329.0
2.5°	5632.4	5664.8	5646.3	5637.0	5620.8	5597.6	5579.1	5521.2	5461.0	5421.6
5°	5745.9	5778.3	5776.0	5785.2	5796.8	5803.8	5799.1	5734.3	5648.6	5581.4
7.5°	5648.6	5685.6	5715.7	5762.1	5843.1	5928.8	5970.5	5956.6	5868.6	5776.0
10°	5373.0	5412.4	5484.2	5593.0	5764.4	5949.7	6104.8	6176.6	6121.0	6019.1
12.5°	4868.1	4907.5	5048.8	5285.0	5572.2	5894.1	6190.5	6382.7	6396.6	6294.7
15°	4300.7	4340.1	4490.6	4787.1	5224.8	5741.2	6236.8	6600.4	6723.2	6635.2
17.5°	3948.7	3983.4	4096.9	4335.4	4791.7	5435.5	6220.6	6832.0	7112.3	7042.8
20°	3842.1	3872.3	3925.5	4092.3	4472.1	5118.2	6114.1	7049.7	7531.4	7492.1
22.5°	3955.6	3983.4	3999.6	4073.7	4312.3	4909.8	5979.8	7272.1	8017.8	8022.4
25°	4217.3	4245.1	4226.6	4272.9	4377.1	4845.0	5928.8	7533.8	8629.2	8680.2
27.5°	4648.1	4650.4	4606.4	4604.1	4620.3	4942.2	5982.1	7814.0	9400.4	9495.4
30°	5511.9	5477.2	5308.1	5125.2	5041.8	5234.0	6130.3	8145.2	10310.6	10479.6
32.5°	6843.6	6792.7	6482.3	6044.6	5604.6	5704.2	6396.6	8522.7	11301.8	11607.5
35°	8288.8	8274.9	7950.6	7299.9	6531.0	6373.5	6829.7	9018.3	12383.3	12869.7
37.5°	9632.0	9625.1	9439.8	8673.2	7737.6	7306.8	7524.5	9666.7	13541.3	14245.4
40°	10859.5	10880.3	10695.0	10009.5	9066.9	8504.1	8469.4	10468.1	14829.0	15743.8
42.5°	11920.2	11943.3	11755.7	11248.5	10380.1	9828.9	9629.7	11450.0	16086.5	17353.4
45°	12640.4	12784.0	12756.2	12350.9	11727.9	11155.9	11023.9	12682.1	17520.1	19060.2
47.5°	12844.2	12976.2	13184.7	13240.2	12860.4	12297.7	12455.1	14166.6	18969.9	20769.4
50°	12341.7	12464.4	12897.5	13474.2	13738.2	13564.5	13847.0	15757.7	20454.4	22473.9
52.5°	11350.4	11475.5	12022.1	12934.5	14011.5	14558.0	15243.5	17325.6	21892.6	24088.1
55°	9916.9	10048.9	10750.6	11783.5	13490.4	14967.9	16408.5	18891.1	23210.4	25540.2
57.5°	7966.8	8064.1	8793.6	10238.8	12179.5	14560.3	17267.7	20600.3	24451.7	26966.8
60°	5192.3	5278.0	6125.7	7737.6	10007.2	13198.6	17439.0	22506.3	26100.7	28821.9
62.5°	3453.1	3511.0	4013.5	5197.0	7047.4	10583.9	16436.2	24027.9	28518.5	32050.3
65°	2369.2	2427.1	2929.7	3754.1	4553.1	7001.1	13552.9	23826.4	30709.4	34614.1
67.5°	1690.6	1739.3	2165.4	2943.6	3295.6	4066.8	9187.3	21251.1	30394.4	34711.3
70°	1211.2	1239.0	1591.1	2292.8	2619.3	2443.3	5109.0	16253.3	26612.5	32052.6
72.5°	847.6	856.9	1104.7	1746.2	2109.8	1783.3	2431.7	10836.3	20127.9	25158.1
75°	574.4	585.9	743.4	1280.7	1693.0	1361.8	1287.7	5810.7	11815.9	13925.8
77.5°	352.0	356.7	479.4	875.4	1266.8	1037.5	829.1	2461.8	4571.7	4488.3
80°	199.2	199.2	305.7	544.2	863.8	669.3	581.3	1046.8	1447.5	1271.5
82.5°	111.2	113.5	222.3	338.1	572.0	396.0	319.6	484.0	625.3	553.5
85°	46.3	51.0	136.6	159.8	273.3	196.9	129.7	203.8	231.6	206.1
87.5°	4.6	6.9	41.7	30.1	32.4	39.4	18.5	39.4	32.4	32.4
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°
5329.0	0°	5329.0	5329.0	5329.0	5329.0	5329.0	5329.0	5329.0	5329.0	5329.0	5329.0
5407.7	2.5°	5363.7	5329.0	5241.0	5139.1	5004.8	4939.9	4851.9	4791.7	4740.7	4745.4
5542.1	5°	5467.9	5379.9	5183.1	4937.6	4631.9	4414.2	4182.6	4022.8	3893.1	3865.3
5727.3	7.5°	5611.5	5472.6	5127.5	4685.2	4168.7	3777.3	3427.6	3202.9	3043.1	2992.2
5952.0	10°	5796.8	5595.3	5055.7	4367.9	3624.4	3126.5	2751.3	2575.3	2466.5	2429.4
6216.0	12.5°	6012.2	5736.6	4960.7	3981.1	3064.0	2584.6	2346.0	2258.0	2223.3	2211.7
6540.2	15°	6283.2	5912.6	4817.2	3522.5	2589.2	2253.4	2151.5	2139.9	2144.6	2139.9
6929.3	17.5°	6605.1	6104.8	4583.2	3050.1	2269.6	2084.3	2047.3	2056.6	2068.1	2065.8
7364.7	20°	6957.1	6294.7	4284.5	2630.9	2051.9	1963.9	1943.1	1952.3	1961.6	1957.0
7867.3	22.5°	7357.7	6498.5	3953.3	2304.4	1906.0	1852.8	1829.6	1831.9	1831.9	1822.6
8504.1	25°	7837.1	6723.2	3605.9	2072.8	1794.9	1753.2	1725.4	1716.1	1702.2	1674.4
9277.7	27.5°	8409.2	6961.7	3272.4	1910.7	1706.8	1667.5	1635.1	1611.9	1577.2	1530.8
10206.4	30°	9053.0	7251.2	2989.9	1808.8	1637.4	1598.0	1560.9	1526.2	1475.3	1417.4
11274.0	32.5°	9810.3	7561.6	2783.8	1741.6	1574.8	1533.2	1489.2	1447.5	1391.9	1334.0
12473.7	35°	10713.5	7936.7	2663.3	1695.3	1526.2	1470.6	1422.0	1375.7	1334.0	1283.0
13777.5	37.5°	11693.2	8335.1	2626.3	1672.1	1493.8	1408.1	1352.5	1320.1	1315.5	1285.3
15187.9	40°	12765.5	8807.5	2654.1	1658.2	1459.0	1347.9	1287.7	1280.7	1292.3	1239.0
16695.6	42.5°	13900.3	9368.0	2700.4	1642.0	1410.4	1287.7	1229.8	1229.8	1220.5	1146.4
18289.0	45°	15127.7	10014.1	2746.7	1602.6	1352.5	1227.4	1183.4	1167.2	1127.9	1056.1
19891.6	47.5°	16364.4	10671.9	2781.4	1530.8	1283.0	1176.5	1137.1	1100.1	1042.2	977.3
21464.2	50°	17538.6	11262.4	2744.4	1424.3	1204.3	1127.9	1086.2	1035.2	972.7	928.7
22953.3	52.5°	18587.8	11774.3	2586.9	1299.2	1120.9	1076.9	1039.9	986.6	935.6	889.3
24296.6	55°	19500.2	12188.8	2309.0	1181.1	1046.8	1032.9	995.9	928.7	859.2	819.8
25628.2	57.5°	20375.7	12503.8	1961.6	1083.9	979.6	984.3	928.7	868.5	803.6	761.9
27423.1	60°	21540.6	12925.3	1609.6	993.5	907.8	921.7	861.5	817.5	736.5	683.2
30501.0	62.5°	23402.6	13580.7	1278.4	882.4	824.5	829.1	803.6	750.4	653.1	590.6
32782.2	65°	24880.2	13339.8	1007.4	761.9	729.5	736.5	736.5	678.6	574.4	502.6
32904.9	67.5°	24713.4	11422.2	803.6	643.8	639.2	643.8	660.0	611.4	509.5	451.6
30399.1	70°	22765.7	9085.4	643.8	535.0	555.8	544.2	590.6	558.1	458.6	400.7
23567.0	72.5°	18576.2	6544.9	491.0	442.3	426.1	444.7	532.7	502.6	382.1	317.3
12482.9	75°	10854.8	3492.4	365.9	349.7	308.0	370.6	472.5	428.4	291.8	233.9
3825.9	77.5°	3534.1	1218.2	268.6	257.1	229.3	298.8	403.0	361.3	238.5	185.3
1120.9	80°	947.2	368.2	183.0	169.1	148.2	222.3	319.6	287.2	171.4	120.4
481.7	82.5°	379.8	155.2	106.5	95.0	81.1	152.9	252.4	231.6	127.4	76.4
150.5	85°	122.7	51.0	39.4	30.1	37.1	95.0	150.5	157.5	90.3	39.4
23.2	87.5°	16.2	6.9	6.9	9.3	6.9	16.2	46.3	44.0	25.5	4.6
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

180°
5329.0
4699.0
3802.8
2941.2
2401.6
2204.8
2137.6
2061.2
1954.7
1818.0
1669.8
1526.2
1412.7
1336.3
1278.4
1283.0
1241.3
1146.4
1053.8
975.0
921.7
884.7
815.2
757.3
676.3
585.9
495.6
442.3
393.7
310.3
227.0
178.3
118.1
76.4
30.1
0.0
0.0

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