

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: P956944

Luminaire Tested: **GALN-SB9B-940-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956944  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9B-940-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

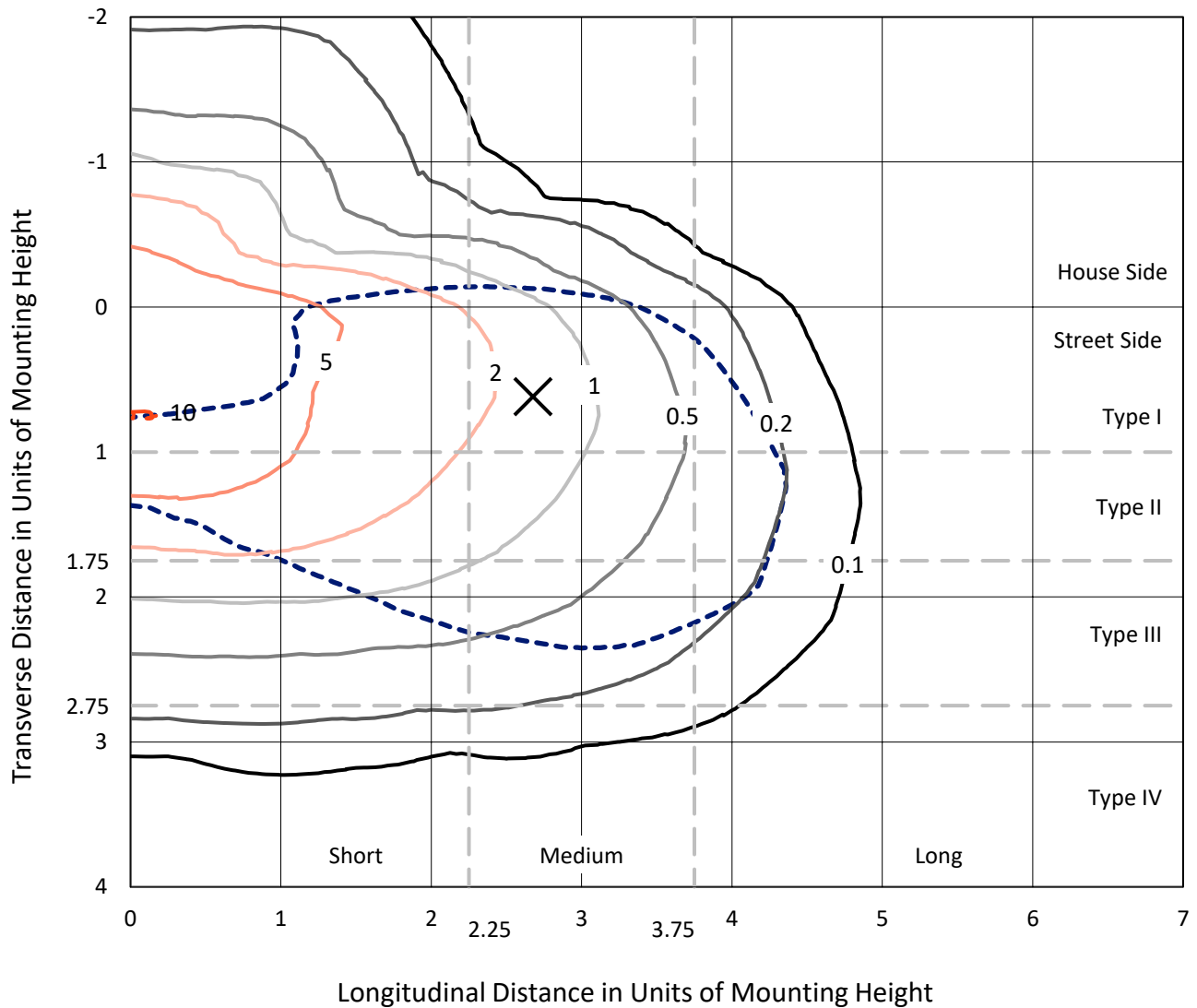
Lumens per Lamp: N/A  
Luminaire Lumens: 38155 lumens  
Efficiency: N/A  
Efficacy: 115.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

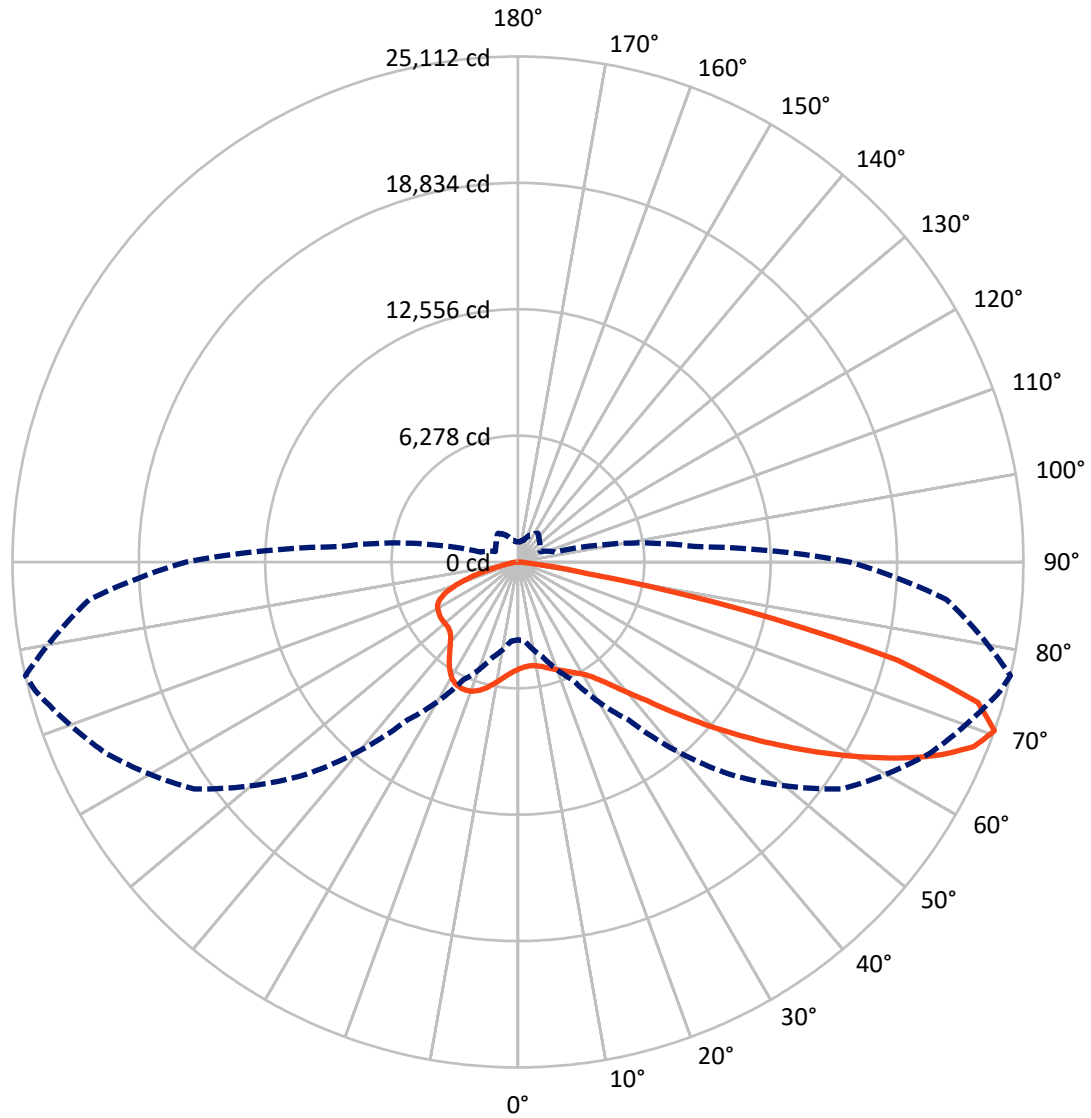
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8355.4	0.0	8355.4
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	29799.6	0.0	29799.6
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	38155.0	0.0	38155.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	507.7	1.3
10°-20°	1465.2	3.8
20°-30°	2505.7	6.6
30°-40°	4029.4	10.6
40°-50°	6290.9	16.5
50°-60°	8403.1	22.0
60°-70°	8956.4	23.5
70°-80°	5513.5	14.5
80°-90°	483.1	1.3
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°	38155.0	100.0
0°-180°	38155.0	100.0



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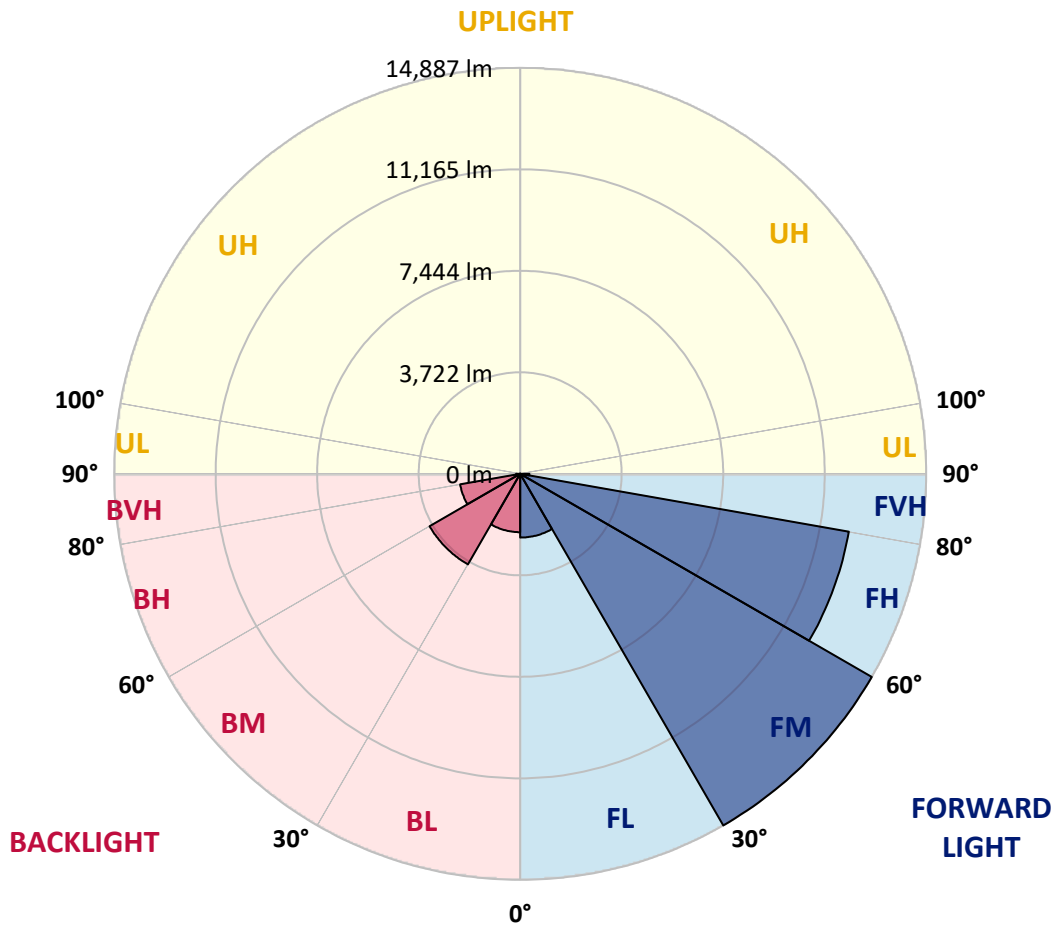
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2337.6	6.1			
FM (30°-60°)	14887.3	39.0			
FH (60°-80°)	12236.9	32.1			G5
FVH (80°-90°)	337.8	0.9			G3/500
BL (0°-30°)	2140.9	5.6	B3/2500		
BM (30°-60°)	3836.1	10.1	B3/5000		
BH (60°-80°)	2233.0	5.9	B3/2500		G3/2500
BVH (80°-90°)	145.3	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5323.0	5323.0	5323.0	5323.0	5323.0	5323.0	5323.0	5323.0	5323.0	5323.0
2.5°	4906.7	4904.8	4930.2	4938.0	4984.9	5018.1	5080.7	5147.1	5233.1	5242.9
5°	4623.4	4623.4	4652.7	4684.0	4744.6	4811.0	4906.7	5022.0	5170.6	5194.0
7.5°	4383.0	4398.7	4424.1	4484.7	4555.0	4650.8	4797.3	4961.5	5156.9	5194.0
10°	4189.6	4207.2	4238.4	4287.3	4392.8	4525.7	4717.2	4928.2	5190.1	5248.7
12.5°	4129.0	4146.6	4164.2	4201.3	4299.0	4455.3	4684.0	4943.9	5270.2	5328.8
15°	4269.7	4291.2	4277.5	4267.8	4318.6	4461.2	4699.6	5000.5	5369.9	5453.9
17.5°	4594.1	4601.9	4570.6	4478.8	4471.0	4547.2	4773.9	5078.7	5494.9	5586.8
20°	5117.8	5104.1	5039.6	4857.9	4754.3	4738.7	4900.9	5196.0	5623.9	5721.6
22.5°	5829.1	5813.4	5684.5	5397.2	5166.6	5014.2	5084.6	5348.4	5768.5	5877.9
25°	6716.2	6694.7	6505.2	6114.4	5756.8	5379.6	5334.7	5549.6	5946.3	6047.9
27.5°	7751.9	7734.3	7529.2	7013.3	6497.4	5879.9	5645.4	5786.1	6132.0	6247.3
30°	8865.8	8916.6	8553.1	7998.1	7345.5	6532.6	6063.6	6077.3	6372.3	6475.9
32.5°	10175.0	10262.9	9825.2	9121.7	8230.7	7241.9	6591.2	6483.7	6722.1	6808.1
35°	11472.5	11572.2	11208.7	10431.0	9405.1	8078.3	7142.2	6950.7	7187.2	7281.0
37.5°	12594.2	12727.1	12539.5	11863.3	10661.6	9086.6	7861.3	7499.8	7759.7	7877.0
40°	13479.4	13682.6	13668.9	13246.8	12142.8	10309.8	8773.9	8177.9	8471.0	8598.0
42.5°	14198.5	14374.4	14526.8	14505.3	13688.5	11699.2	9846.7	9059.2	9282.0	9428.5
45°	14694.8	14882.4	15210.7	15564.4	15175.5	13186.3	11075.8	10104.7	10307.9	10528.7
47.5°	15138.4	15351.4	15777.4	16338.2	16437.9	14679.2	12422.2	11322.1	11507.7	11736.3
50°	15177.5	15361.2	16021.7	16817.0	17334.8	16113.5	13868.3	12688.0	12861.9	13106.2
52.5°	14233.7	14522.9	15675.8	16803.3	17747.1	17313.3	15304.5	14108.6	14304.0	14597.1
55°	11048.5	11472.5	14661.6	16279.6	17600.6	18089.1	16670.4	15619.1	15869.3	16176.0
57.5°	9516.5	9702.1	11638.6	15326.0	16932.3	18290.4	17823.4	17145.3	17547.8	17883.9
60°	8553.1	8707.5	9852.6	13842.9	16052.9	17971.9	18714.4	18567.9	19263.5	19664.1
62.5°	7521.3	7667.9	8709.4	11558.5	14927.4	17442.3	19277.2	19881.0	21022.2	21459.9
65°	6497.4	6622.4	7621.0	9711.9	13497.0	16912.7	19568.4	21016.4	22650.0	23103.3
67.5°	5356.2	5459.8	6403.6	8193.5	11757.8	16187.8	19713.0	21909.4	24066.7	24455.6
70°	3865.2	3945.3	4920.4	6479.8	9575.1	14941.1	19654.3	22542.5	24801.4	25112.1
72.5°	1827.1	1899.4	3044.5	4207.2	6763.1	12514.1	18468.2	22040.3	24055.0	23900.6
75°	975.1	1037.6	1748.9	2307.8	3572.1	8578.5	15113.0	18986.0	20199.5	19449.2
77.5°	660.5	709.3	1082.6	1385.5	1631.7	4072.3	9713.8	13145.2	12646.9	11408.0
80°	523.7	574.5	887.2	938.0	789.5	1471.4	4013.7	6085.1	4371.3	3495.9
82.5°	402.5	459.2	746.5	680.0	429.9	603.8	1168.6	1924.8	1119.7	852.0
85°	246.2	306.8	586.2	433.8	242.3	275.5	396.7	535.4	342.0	285.3
87.5°	125.1	175.9	297.0	158.3	109.4	64.5	105.5	105.5	89.9	78.2
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°
5323.0	0°	5323.0	5323.0	5323.0	5323.0	5323.0	5323.0	5323.0	5323.0	5323.0	5323.0
5295.6	2.5°	5342.5	5381.6	5448.0	5510.6	5559.4	5606.3	5653.2	5678.6	5686.4	5717.7
5324.9	5°	5405.0	5477.3	5606.3	5727.5	5803.7	5850.6	5883.8	5903.3	5907.2	5917.0
5405.0	7.5°	5520.3	5635.6	5815.4	5936.6	5993.2	5989.3	5975.6	5926.8	5907.2	5889.7
5522.3	10°	5682.5	5834.9	6055.8	6139.8	6104.6	6010.8	5889.7	5747.0	5680.6	5616.1
5682.5	12.5°	5883.8	6077.3	6294.2	6290.3	6116.3	5876.0	5594.6	5375.7	5237.0	5137.3
5879.9	15°	6128.1	6350.8	6516.9	6384.0	6003.0	5571.1	5158.8	4873.5	4748.5	4639.0
6079.2	17.5°	6380.1	6618.5	6694.7	6354.7	5717.7	5119.7	4652.7	4428.0	4304.9	4246.3
6294.2	20°	6626.4	6862.8	6800.3	6186.7	5283.9	4607.8	4191.5	4068.4	4043.0	4056.7
6503.2	22.5°	6886.3	7097.3	6821.8	5862.3	4730.9	4084.1	3855.4	3859.3	3916.0	3957.1
6722.1	25°	7152.0	7294.7	6765.1	5393.3	4136.8	3699.1	3642.4	3705.0	3816.4	3896.5
6968.3	27.5°	7408.0	7470.5	6642.0	4813.0	3626.8	3423.6	3433.4	3562.3	3730.4	3841.8
7267.3	30°	7697.2	7626.9	6405.5	4160.3	3273.1	3187.1	3269.2	3419.7	3587.7	3687.4
7644.4	32.5°	8023.5	7761.7	6030.4	3556.5	3023.0	2997.6	3132.4	3230.1	3304.4	3333.7
8144.7	35°	8430.0	7951.2	5549.6	3132.4	2798.3	2858.8	2987.8	2939.0	2909.7	2894.0
8816.9	37.5°	8957.6	8207.2	4986.9	2856.9	2616.5	2759.2	2812.0	2659.5	2544.2	2487.6
9631.8	40°	9592.7	8582.4	4445.6	2643.9	2501.2	2673.2	2581.4	2397.7	2251.1	2171.0
10548.2	42.5°	10298.1	8975.2	3990.3	2483.7	2436.8	2602.9	2411.4	2192.5	1956.1	1930.7
11640.6	45°	11038.7	9379.7	3679.6	2360.6	2405.5	2542.3	2313.7	1960.0	1791.9	1895.5
12736.8	47.5°	11779.3	9751.0	3492.0	2268.7	2389.9	2473.9	2227.7	1831.0	1711.8	1862.3
13911.2	50°	12604.0	10083.2	3408.0	2202.3	2372.3	2446.5	2098.7	1797.8	1627.8	1727.4
15126.7	52.5°	13422.7	10341.1	3345.4	2135.8	2346.9	2425.0	2036.2	1758.7	1526.2	1532.0
16350.0	55°	14239.5	10509.2	3277.0	2047.9	2290.2	2378.1	2030.3	1715.7	1449.9	1422.6
17643.6	57.5°	15111.1	10604.9	3193.0	1950.2	2192.5	2258.9	2024.4	1682.5	1426.5	1381.5
18966.5	60°	15998.2	10745.6	3083.6	1831.0	2061.6	2116.3	2010.8	1670.8	1412.8	1336.6
20213.2	62.5°	16793.5	10794.5	2952.6	1717.7	1893.5	1975.6	1981.5	1661.0	1375.7	1244.8
21248.9	65°	17315.3	10583.4	2724.0	1588.7	1711.8	1831.0	1924.8	1627.8	1309.2	1178.3
21760.9	67.5°	17293.8	9981.5	2366.4	1422.6	1535.9	1670.8	1842.7	1571.1	1229.1	1096.3
21374.0	70°	16488.7	8793.5	1913.1	1229.1	1342.5	1498.8	1737.2	1487.1	1133.4	1006.4
19005.6	72.5°	14141.8	6882.3	1389.4	1002.5	1117.7	1321.0	1600.4	1385.5	1035.7	926.2
14046.1	75°	10102.7	4355.7	941.9	769.9	869.6	1119.7	1430.4	1266.3	945.8	930.2
7034.8	77.5°	5160.8	2081.1	623.4	562.8	605.8	883.3	1201.8	1131.4	959.5	768.0
2001.0	80°	1678.6	768.0	392.8	383.0	402.5	588.2	930.2	928.2	726.9	521.7
484.6	82.5°	535.4	330.2	256.0	246.2	236.4	369.3	648.8	734.7	490.5	330.2
173.9	85°	213.0	197.4	150.5	138.7	99.7	173.9	340.0	488.5	365.4	238.4
44.9	87.5°	78.2	78.2	41.0	29.3	21.5	58.6	91.8	146.6	209.1	123.1
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>
5323.0
5735.3
5932.7
5893.6
5596.5
5113.9
4627.3
4263.8
4050.9
3966.8
3918.0
3869.1
3710.8
3349.3
2909.7
2501.2
2176.9
1956.1
1950.2
1932.6
1801.7
1573.1
1442.1
1387.4
1342.5
1244.8
1178.3
1102.1
<i>1018.1</i>
920.4
877.4
683.9
461.2
328.3
244.3
121.2
0.0

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