

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: P943452

Luminaire Tested: **GALN-SB7D-940-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7D-940-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51983 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

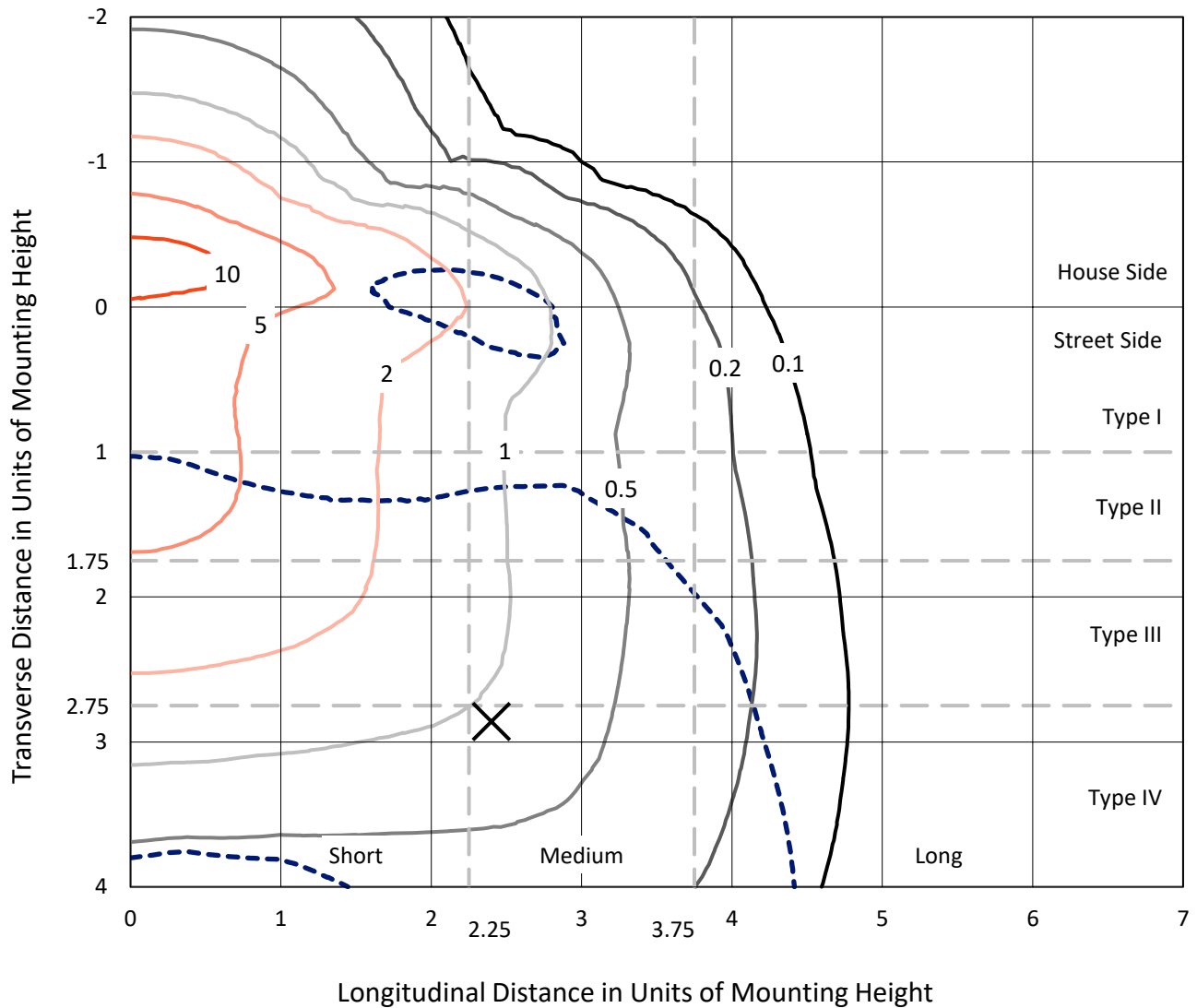
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

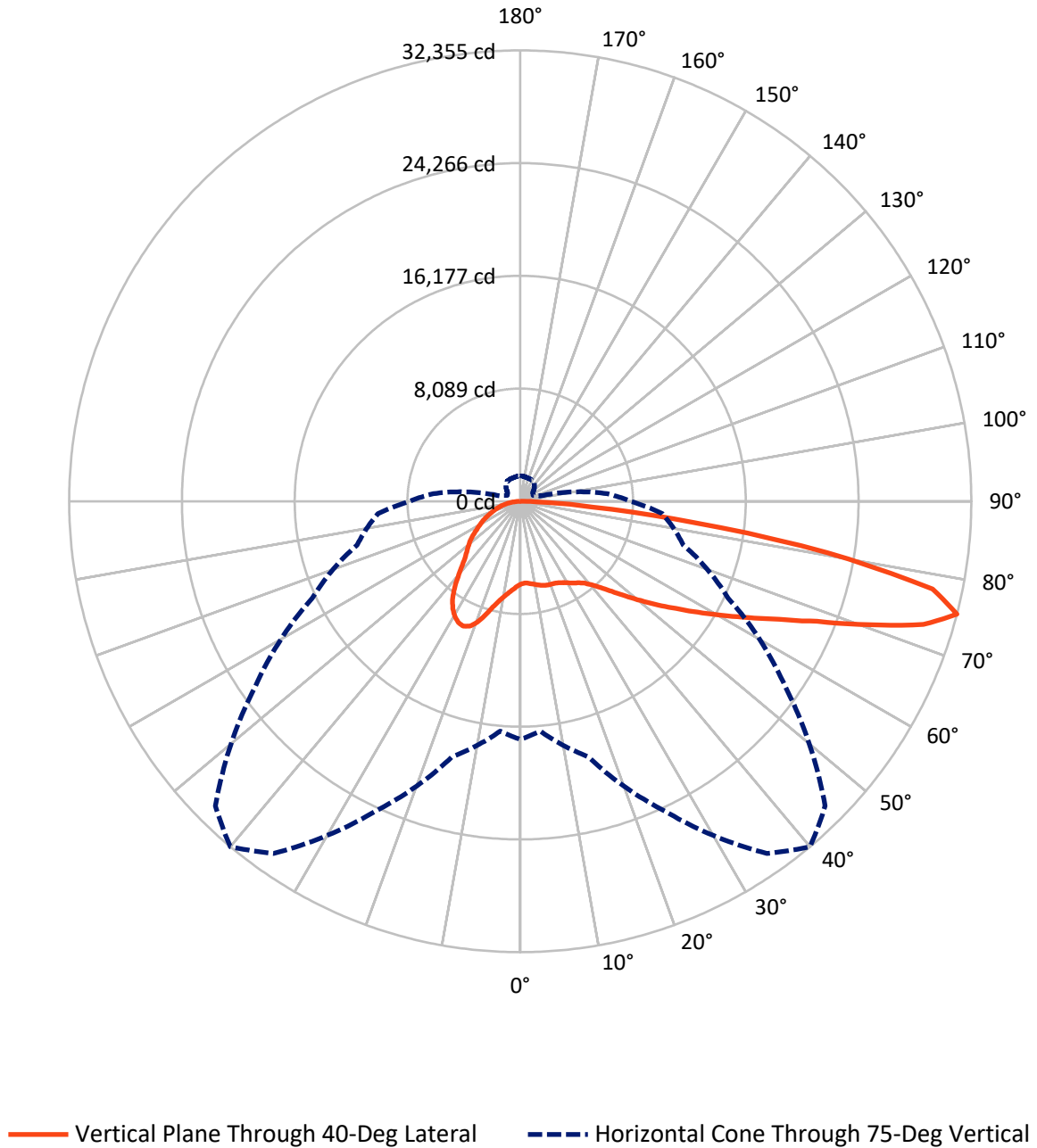
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16106.1	0.0	16106.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	35876.9	0.0	35876.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	51983.0	0.0	51983.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	593.4	1.1
10°-20°	1992.2	3.8
20°-30°	3637.5	7.0
30°-40°	5159.0	9.9
40°-50°	6966.2	13.4
50°-60°	9371.5	18.0
60°-70°	11894.6	22.9
70°-80°	10795.0	20.8
80°-90°	1573.6	3.0
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°	51983.0	100.0
0°-180°	51983.0	100.0



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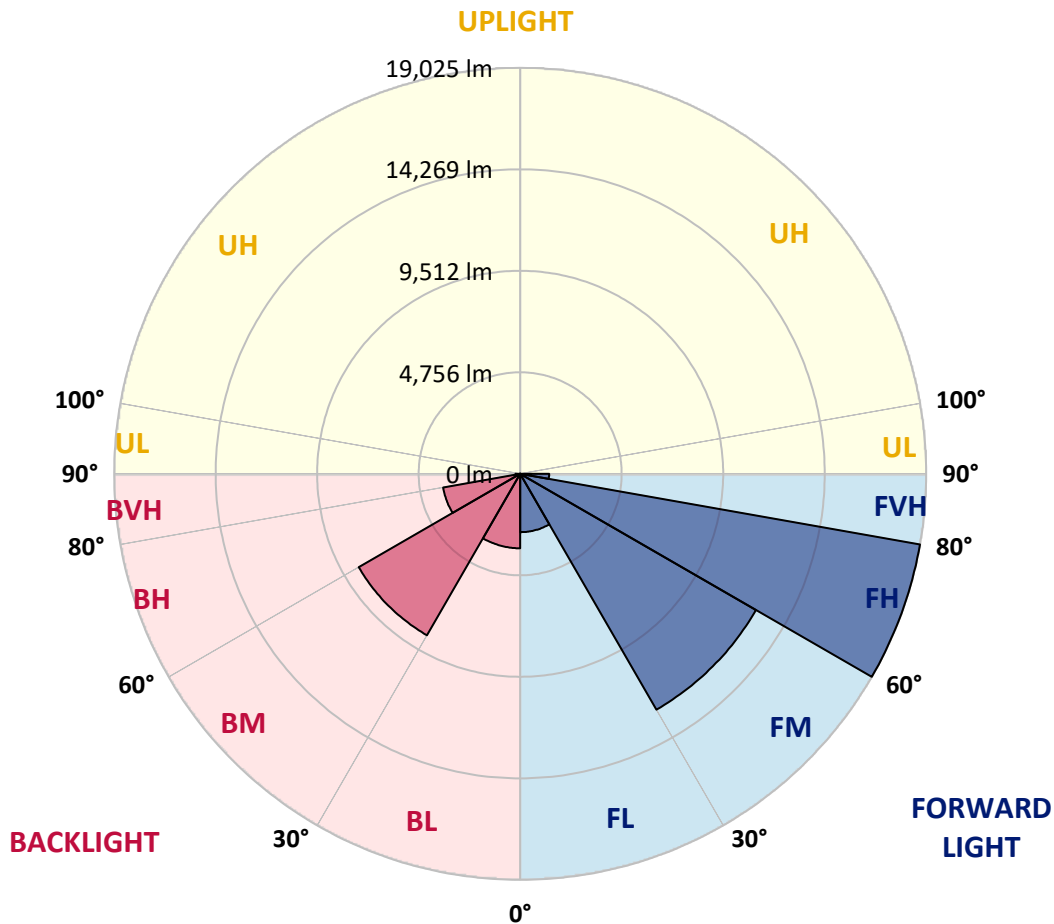
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2734.4	5.3			
FM (30°-60°)	12760.7	24.5			
FH (60°-80°)	19025.0	36.6			G5
FVH (80°-90°)	1356.9	2.6			G5
BL (0°-30°)	3488.7	6.7	B4/5000		
BM (30°-60°)	8736.1	16.8	B5		
BH (60°-80°)	3664.6	7.0	B4/5000		G4/5000
BVH (80°-90°)	216.6	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	5944.3	5944.3	5944.3	5944.3	5944.3	5944.3	5944.3	5944.3	5944.3	5944.3
2.5°	5853.3	5886.4	5878.2	5867.1	5867.1	5869.9	5867.1	5886.4	5905.7	5925.0
5°	5914.0	5947.1	5930.5	5916.8	5905.7	5903.0	5894.7	5891.9	5903.0	5927.8
7.5°	6032.6	6065.6	6040.8	6016.0	5994.0	5982.9	5971.9	5955.4	5947.1	5960.9
10°	6164.9	6198.0	6167.7	6123.5	6087.7	6073.9	6062.9	6046.3	6035.3	6043.6
12.5°	6297.2	6330.3	6289.0	6228.3	6181.4	6173.2	6159.4	6153.9	6151.1	6148.4
15°	6421.3	6448.9	6396.5	6324.8	6275.2	6261.4	6247.6	6255.9	6269.7	6286.2
17.5°	6517.8	6545.4	6468.2	6374.4	6327.6	6322.0	6313.8	6341.3	6379.9	6421.3
20°	6606.0	6633.6	6534.3	6407.5	6352.4	6352.4	6355.1	6413.0	6468.2	6528.8
22.5°	6730.1	6752.2	6630.8	6457.1	6377.2	6382.7	6404.8	6462.7	6531.6	6614.3
25°	6914.8	6931.4	6782.5	6550.9	6459.9	6476.4	6495.7	6523.3	6589.5	6686.0
27.5°	7212.6	7226.4	7030.6	6716.3	6578.5	6606.0	6633.6	6614.3	6644.6	6727.3
30°	7631.7	7639.9	7391.8	6975.5	6779.7	6793.5	6799.0	6719.1	6661.2	6727.3
32.5°	8128.0	8125.2	7830.2	7289.8	7008.6	6994.8	6947.9	6790.8	6655.7	6713.6
35°	8897.2	8866.9	8486.4	7730.9	7267.7	7182.3	7072.0	6870.7	6683.2	6699.8
37.5°	10171.0	10077.2	9550.6	8453.3	7653.7	7435.9	7273.3	7000.3	6743.9	6694.3
40°	11607.4	11488.9	10909.9	9443.1	8232.7	7882.6	7620.6	7185.0	6843.1	6719.1
42.5°	13311.3	13143.1	12520.0	10609.4	8966.1	8458.8	8064.5	7419.4	6989.3	6799.0
45°	15404.0	15180.6	14298.4	11924.5	9889.7	9214.3	8687.6	7775.0	7212.6	6953.4
47.5°	17518.7	17573.8	16319.3	13429.9	10998.1	10146.2	9467.9	8309.9	7537.9	7201.6
50°	19765.7	19804.3	18329.3	15097.9	12255.3	11199.4	10344.7	8908.2	7990.1	7554.5
52.5°	21519.2	21524.7	20154.5	16843.2	13565.0	12357.4	11290.4	9592.0	8514.0	8023.2
55°	22616.6	22602.8	21433.8	18494.7	15070.4	13573.2	12338.1	10369.5	9153.6	8574.6
57.5°	23413.4	23372.0	22316.0	19914.6	16675.0	15009.7	13523.6	11251.8	9909.0	9230.8
60°	23716.6	23691.8	22914.3	21141.5	18362.3	16597.8	14891.1	12238.8	10766.5	10005.5
62.5°	23832.4	23879.3	23501.6	22329.8	20168.2	18356.8	16393.8	13418.8	11731.5	10882.3
65°	24240.5	24326.0	24248.8	23884.8	22208.5	20416.4	18387.2	14822.2	12784.7	11822.5
67.5°	25048.3	25133.8	25166.9	25745.9	24700.9	22983.3	20874.1	16570.2	14017.1	12798.5
70°	25029.0	25004.2	25588.7	27226.4	27822.0	26537.2	24226.7	18720.8	15486.7	13609.1
72.5°	22782.0	22583.5	23964.8	27209.9	30419.2	30248.2	28321.0	21494.4	16754.9	13708.3
75°	17091.3	16561.9	19002.0	24521.7	30852.0	32354.7	30923.7	23214.9	16454.4	12112.0
77.5°	7309.1	6777.0	9652.6	18152.8	27612.4	30245.5	28536.1	20253.7	13134.9	8009.4
80°	1913.4	1910.7	2917.0	8230.0	18778.7	22335.3	19594.8	13079.7	7504.8	2861.9
82.5°	791.3	772.0	1072.5	3201.0	9175.7	12533.8	10228.9	5834.0	2710.2	774.7
85°	295.0	292.3	521.1	1105.6	3236.8	5169.6	3741.4	1491.6	675.5	377.7
87.5°	82.7	80.0	113.0	383.2	788.5	1196.6	639.6	245.4	190.2	148.9
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°
5944.3	0°	5944.3	5944.3	5944.3	5944.3	5944.3	5944.3	5944.3	5944.3	5944.3	5944.3
5955.4	2.5°	5963.6	5977.4	6002.2	6021.5	6046.3	6073.9	6112.5	6137.3	6162.1	6178.7
5969.1	5°	5988.4	6018.8	6082.2	6145.6	6220.0	6289.0	6368.9	6426.8	6473.7	6487.5
6018.8	7.5°	6043.6	6093.2	6200.7	6308.3	6426.8	6539.9	6655.7	6754.9	6834.9	6865.2
6107.0	10°	6140.1	6206.3	6357.9	6509.5	6666.7	6840.4	6989.3	7132.6	7245.7	7292.6
6211.8	12.5°	6261.4	6344.1	6542.6	6752.2	6970.0	7209.8	7402.8	7579.3	7719.9	7783.3
6357.9	15°	6418.5	6526.1	6779.7	7061.0	7380.8	7714.4	7959.8	8155.5	8312.7	8389.9
6509.5	17.5°	6589.5	6732.9	7052.7	7477.3	7935.0	8373.3	8660.1	8803.4	8966.1	9040.6
6650.1	20°	6754.9	6931.4	7389.1	8006.6	8616.0	9081.9	9313.5	9352.1	9363.1	9371.4
6782.5	22.5°	6925.9	7163.0	7810.9	8673.9	9327.3	9649.9	9683.0	9517.5	9285.9	9178.4
6912.1	25°	7113.3	7427.6	8362.3	9410.0	9939.4	9978.0	9724.3	9321.8	8883.4	8682.1
7016.8	27.5°	7295.3	7733.7	9024.0	10113.1	10380.5	10041.4	9495.5	8924.8	8395.4	8183.1
7091.3	30°	7477.3	8083.8	9754.6	10727.9	10581.8	9884.2	9134.3	8497.4	7965.3	7742.0
7157.5	32.5°	7662.0	8491.9	10595.6	11171.8	10545.9	9550.6	8684.9	8017.7	7549.0	7314.6
7215.4	35°	7871.5	8993.7	11392.4	11414.4	10306.1	9059.9	8092.1	7444.2	7036.1	6848.7
7284.3	37.5°	8144.5	9630.6	12095.4	11475.1	9887.0	8340.3	7356.0	6765.9	6429.6	6344.1
7386.3	40°	8483.6	10397.1	12633.1	11378.6	9266.6	7466.2	6550.9	6079.4	5889.2	5908.5
7524.1	42.5°	8924.8	11254.5	13010.8	11130.4	8403.7	6564.7	5845.1	5635.5	5726.5	5803.7
7730.9	45°	9498.2	12145.1	13245.1	10708.6	7427.6	5801.0	5428.7	5478.4	5547.3	5555.6
8064.5	47.5°	10231.6	13046.6	13399.5	10071.7	6432.3	5263.3	5164.1	5175.1	5161.3	5103.4
8563.6	50°	11147.0	13923.4	13537.4	9228.0	5585.9	4927.0	4794.6	4756.0	4565.8	4378.3
9228.0	52.5°	12189.2	14728.5	13595.3	8180.3	4927.0	4645.7	4430.7	4188.0	3832.4	3774.5
10063.4	55°	13347.2	15472.9	13446.4	6892.8	4372.8	4284.5	3959.2	3667.0	3628.4	3578.7
11163.5	57.5°	14731.2	16275.2	13143.1	5456.3	3804.8	3862.7	3545.6	3578.7	3509.8	3432.6
12577.9	60°	16244.9	17105.1	12611.0	4146.7	3217.5	3336.1	3438.1	3435.4	3416.1	3352.6
14069.5	62.5°	17606.9	17651.0	11563.3	3176.2	2702.0	2928.0	3206.5	3203.8	3187.2	3151.4
15627.3	65°	18417.5	17568.3	9815.3	2500.7	2277.4	2591.7	2892.2	2914.3	2917.0	2914.3
16799.1	67.5°	18274.1	16600.5	7416.6	1990.6	1927.2	2249.8	2580.7	2611.0	2633.0	2638.6
16947.9	70°	16652.9	14474.8	4836.0	1588.1	1615.7	1949.3	2285.6	2316.0	2335.3	2357.3
14706.4	72.5°	12980.5	10642.4	2768.1	1284.8	1342.7	1690.1	1993.4	2029.2	2040.3	2081.6
10234.4	75°	7910.1	6258.6	1494.4	1011.9	1102.8	1444.7	1703.9	1745.2	1764.5	1814.2
5026.2	77.5°	3760.7	2710.2	851.9	788.5	887.8	1180.0	1439.2	1486.1	1433.7	1461.3
1386.8	80°	1271.0	1006.3	537.6	601.0	678.2	920.9	1152.5	1199.3	1089.1	1083.5
460.4	82.5°	443.9	408.1	341.9	399.8	438.4	658.9	871.2	931.9	810.6	807.8
206.8	85°	173.7	165.4	190.2	217.8	261.9	405.3	573.5	603.8	499.0	402.5
60.7	87.5°	35.8	38.6	46.9	49.6	80.0	140.6	206.8	253.7	201.3	170.9
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>
5944.3
6167.7
6493.0
6868.0
7295.3
7783.3
8384.4
9037.8
9393.5
9208.7
8712.5
8207.9
7766.8
7344.9
6890.0
6404.8
5974.7
5875.4
5610.7
5147.5
4403.1
3793.8
3587.0
3418.8
3330.6
3137.6
2914.3
2644.1
2368.4
2098.2
<i>1819.7</i>
1439.2
1072.5
769.2
397.0
157.2
0.0

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