

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: P943682

Luminaire Tested: **GALN-SB8B-740-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943682
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-SB8B-740-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47752 lumens
Efficiency: N/A
Efficacy: 163.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

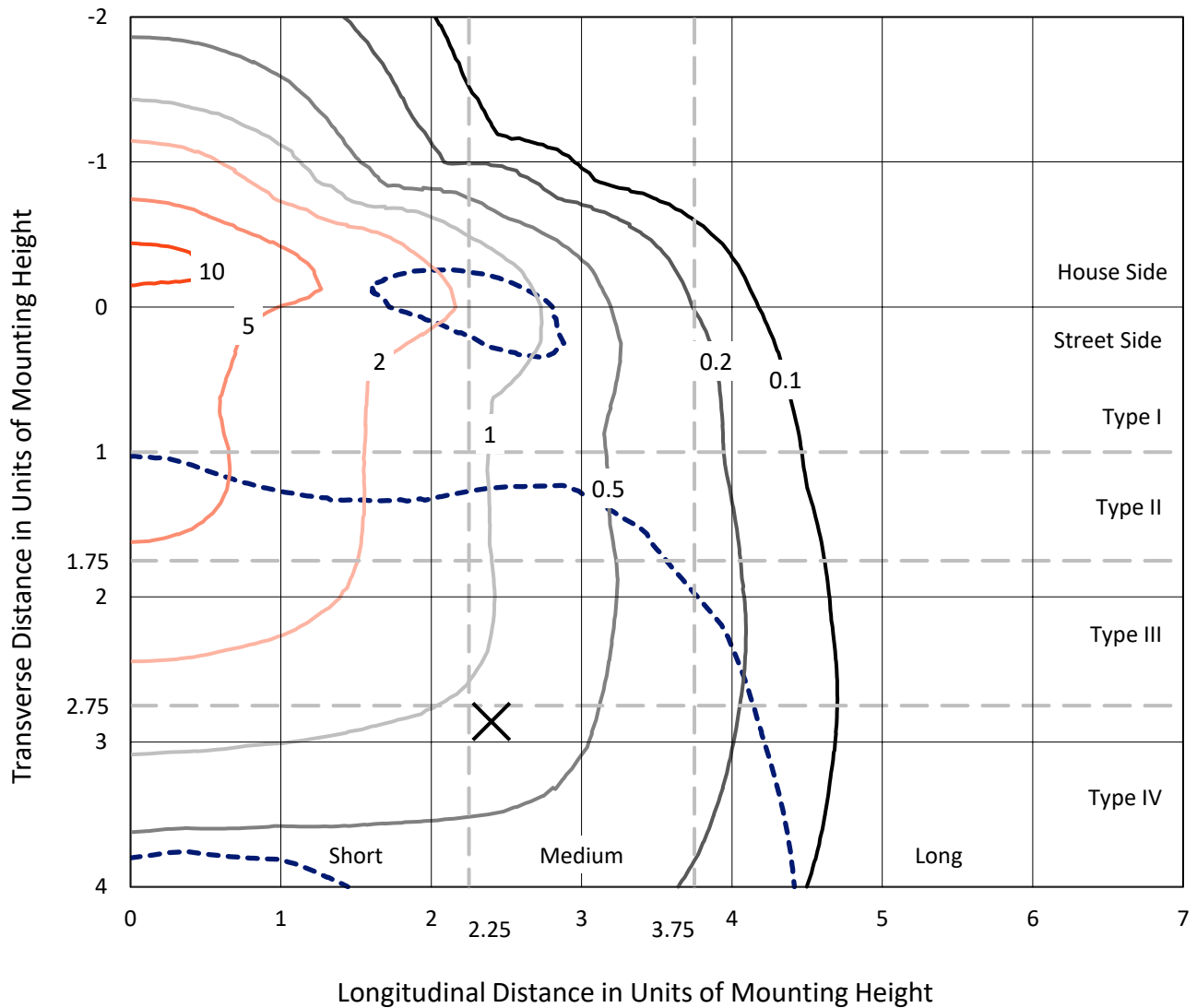
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

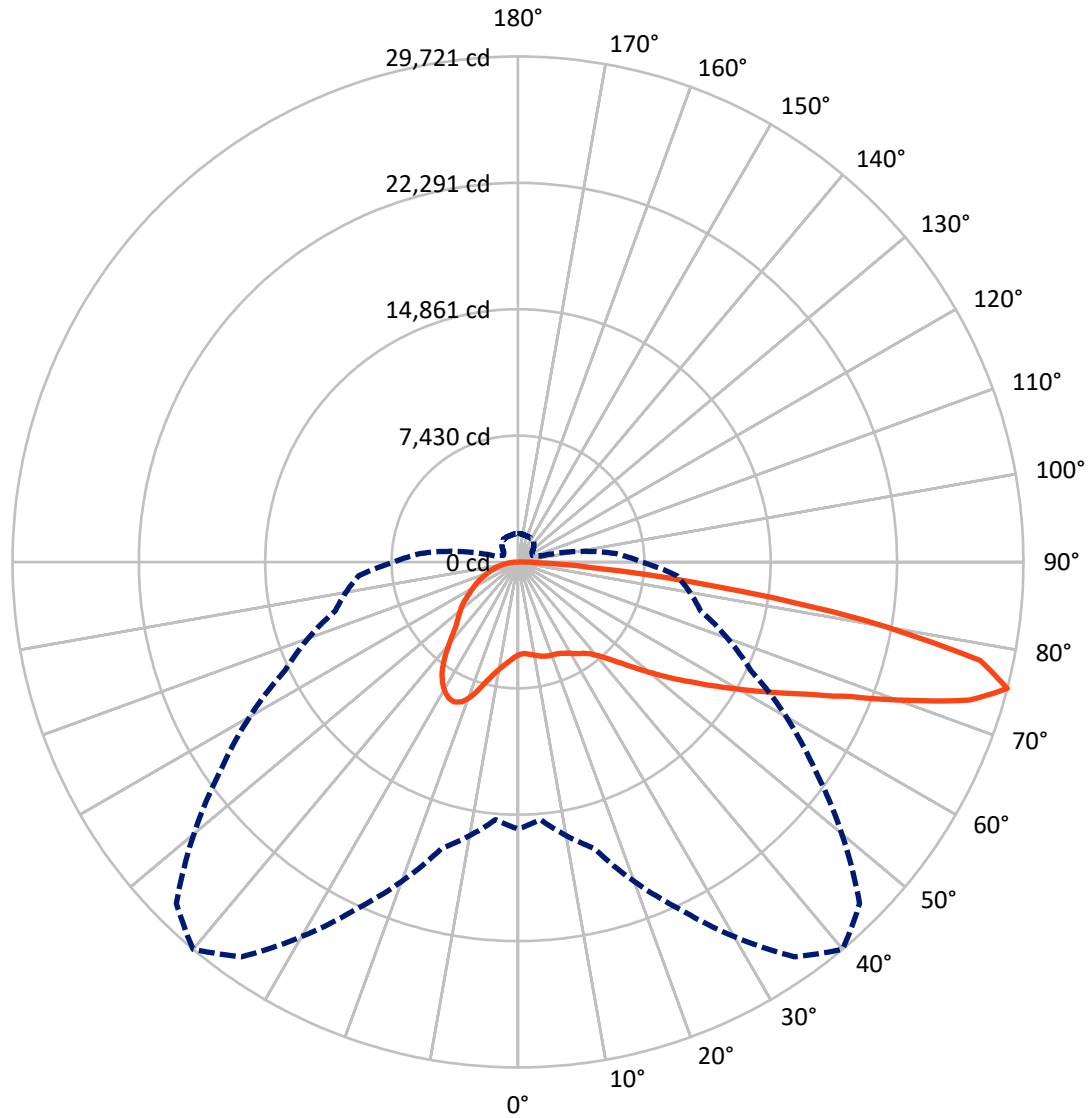
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14795.2	0.0	14795.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	32956.8	0.0	32956.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	47752.0	0.0	47752.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	545.1	1.1
10°-20°	1830.0	3.8
20°-30°	3341.5	7.0
30°-40°	4739.1	9.9
40°-50°	6399.3	13.4
50°-60°	8608.7	18.0
60°-70°	10926.4	22.9
70°-80°	9916.4	20.8
80°-90°	1445.5	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°	47752.0	100.0
0°-180°	47752.0	100.0

Coefficient of Utilization



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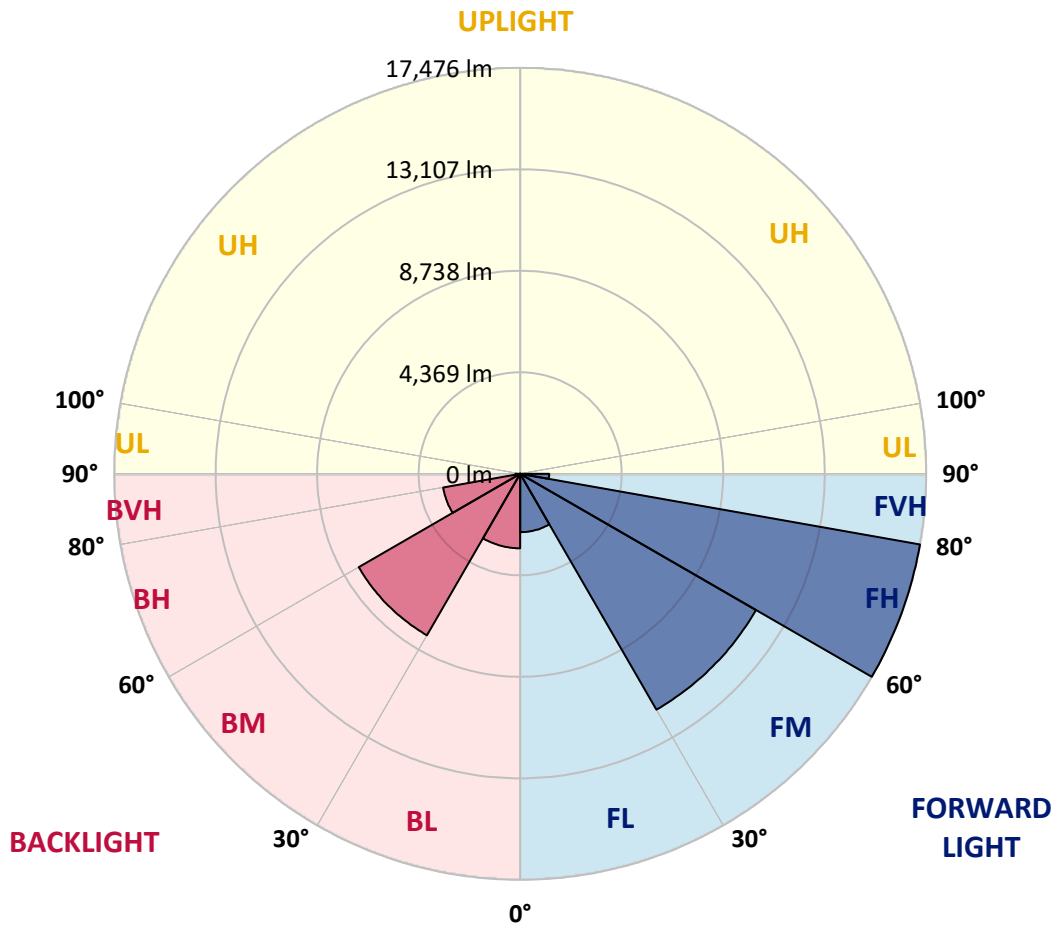
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2511.8	5.3			
FM	(30°-60°)	11722.0	24.5			
FH	(60°-80°)	17476.5	36.6			G5
FVH	(80°-90°)	1246.5	2.6			G5
BL	(0°-30°)	3204.8	6.7	B4/5000		
BM	(30°-60°)	8025.0	16.8	B4/8500		
BH	(60°-80°)	3366.3	7.0	B4/5000		G4/5000
BVH	(80°-90°)	199.0	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	5460.5	5460.5	5460.5	5460.5	5460.5	5460.5	5460.5	5460.5	5460.5	5460.5
2.5°	5376.9	5407.3	5399.7	5389.6	5389.6	5392.1	5389.6	5407.3	5425.0	5442.8
5°	5432.6	5463.0	5447.8	5435.2	5425.0	5422.5	5414.9	5412.4	5422.5	5445.3
7.5°	5541.6	5571.9	5549.1	5526.4	5506.1	5496.0	5485.8	5470.6	5463.0	5475.7
10°	5663.1	5693.5	5665.7	5625.1	5592.2	5579.5	5569.4	5554.2	5544.1	5551.7
12.5°	5784.7	5815.1	5777.1	5721.4	5678.3	5670.7	5658.1	5653.0	5650.5	5647.9
15°	5898.7	5924.0	5875.9	5810.0	5764.4	5751.8	5739.1	5746.7	5759.4	5774.6
17.5°	5987.3	6012.6	5941.7	5855.6	5812.6	5807.5	5799.9	5825.2	5860.7	5898.7
20°	6068.4	6093.7	6002.5	5886.0	5835.3	5835.3	5837.9	5891.1	5941.7	5997.4
22.5°	6182.3	6202.6	6091.1	5931.6	5858.1	5863.2	5883.5	5936.7	6000.0	6076.0
25°	6352.0	6367.2	6230.4	6017.7	5934.1	5949.3	5967.0	5992.4	6053.2	6141.8
27.5°	6625.5	6638.2	6458.4	6169.7	6043.0	6068.4	6093.7	6076.0	6103.8	6179.8
30°	7010.5	7018.1	6790.2	6407.7	6227.9	6240.6	6245.6	6172.2	6119.0	6179.8
32.5°	7466.4	7463.9	7192.9	6696.5	6438.1	6425.5	6382.4	6238.0	6113.9	6167.1
35°	8173.0	8145.2	7795.7	7101.7	6676.2	6597.7	6496.4	6311.5	6139.3	6154.5
37.5°	9343.1	9257.0	8773.3	7765.3	7030.8	6830.7	6681.3	6430.5	6195.0	6149.4
40°	10662.7	10553.8	10021.9	8674.5	7562.6	7241.0	7000.4	6600.2	6286.2	6172.2
42.5°	12227.9	12073.4	11501.0	9745.8	8236.3	7770.3	7408.2	6815.5	6420.4	6245.6
45°	14150.2	13945.1	13134.6	10953.9	9084.8	8464.3	7980.5	7142.2	6625.5	6387.5
47.5°	16092.8	16143.4	14991.1	12336.8	10102.9	9320.3	8697.3	7633.6	6924.4	6615.4
50°	18156.9	18192.4	16837.4	13869.1	11257.9	10287.8	9502.7	8183.2	7339.8	6939.6
52.5°	19767.7	19772.8	18514.0	15472.3	12460.9	11351.6	10371.4	8811.3	7821.0	7370.2
55°	20775.8	20763.1	19689.2	16989.4	13843.7	12468.5	11333.8	9525.5	8408.6	7876.7
57.5°	21507.7	21469.7	20499.7	18293.7	15317.8	13788.0	12422.9	10336.0	9102.5	8479.5
60°	21786.3	21763.5	21049.3	19420.8	16867.8	15246.9	13679.1	11242.7	9890.2	9191.2
62.5°	21892.7	21935.7	21588.7	20512.4	18526.7	16862.7	15059.4	12326.7	10776.6	9996.6
65°	22267.5	22346.0	22275.1	21940.8	20400.9	18754.7	16890.6	13615.8	11744.1	10860.2
67.5°	23009.6	23088.1	23118.5	23650.4	22690.5	21112.6	19175.1	15221.5	12876.3	11756.8
70°	22991.9	22969.1	23506.0	25010.4	25557.5	24377.3	22254.8	17197.0	14226.2	12501.4
72.5°	20927.7	20745.4	22014.2	24995.2	27943.3	27786.3	26015.9	19744.9	15391.2	12592.6
75°	15700.2	15213.9	17455.4	22525.8	28340.9	29721.3	28406.8	21325.3	15115.2	11126.2
77.5°	6714.2	6225.4	8867.0	16675.3	25365.0	27783.7	26213.5	18605.2	12065.8	7357.5
80°	1757.7	1755.2	2679.6	7560.1	17250.2	20517.4	17999.9	12015.1	6894.0	2628.9
82.5°	726.9	709.2	985.2	2940.5	8428.8	11513.7	9396.3	5359.2	2489.6	711.7
85°	271.0	268.5	478.7	1015.6	2973.4	4748.8	3436.9	1370.2	620.5	347.0
87.5°	76.0	73.4	103.8	352.0	724.4	1099.2	587.6	225.4	174.8	136.8
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°
5460.5	0°	5460.5	5460.5	5460.5	5460.5	5460.5	5460.5	5460.5	5460.5	5460.5	5460.5
5470.6	2.5°	5478.2	5490.9	5513.7	5531.4	5554.2	5579.5	5615.0	5637.8	5660.6	5675.8
5483.3	5°	5501.0	5528.9	5587.1	5645.4	5713.8	5777.1	5850.5	5903.7	5946.8	5959.4
5528.9	7.5°	5551.7	5597.3	5696.0	5794.8	5903.7	6007.6	6113.9	6205.1	6278.6	6306.4
5609.9	10°	5640.3	5701.1	5840.4	5979.7	6124.1	6283.6	6420.4	6552.1	6655.9	6699.0
5706.2	12.5°	5751.8	5827.7	6010.1	6202.6	6402.7	6623.0	6800.3	6962.4	7091.6	7149.8
5840.4	15°	5896.1	5994.9	6227.9	6486.2	6780.0	7086.5	7311.9	7491.7	7636.1	7707.0
5979.7	17.5°	6053.2	6184.9	6478.7	6868.7	7289.1	7691.8	7955.2	8086.9	8236.3	8304.7
6108.9	20°	6205.1	6367.2	6787.6	7355.0	7914.7	8342.7	8555.5	8590.9	8601.1	8608.7
6230.4	22.5°	6362.1	6580.0	7175.1	7967.9	8568.1	8864.5	8894.8	8742.9	8530.1	8431.4
6349.5	25°	6534.4	6823.1	7681.7	8644.1	9130.4	9165.8	8932.8	8563.1	8160.4	7975.5
6445.7	27.5°	6701.5	7104.2	8289.5	9289.9	9535.6	9224.1	8722.6	8198.4	7712.1	7517.1
6514.1	30°	6868.7	7425.9	8960.7	9854.7	9720.5	9079.7	8390.8	7805.8	7317.0	7111.8
6574.9	32.5°	7038.4	7800.7	9733.2	10262.5	9687.6	8773.3	7978.0	7365.1	6934.5	6719.3
6628.1	35°	7230.9	8261.7	10465.1	10485.4	9467.2	8322.5	7433.5	6838.3	6463.5	6291.2
6691.4	37.5°	7481.6	8846.7	11111.0	10541.1	9082.3	7661.4	6757.2	6215.2	5906.3	5827.7
6785.1	40°	7793.1	9550.8	11604.8	10452.5	8512.4	6858.6	6017.7	5584.6	5409.9	5427.6
6911.7	42.5°	8198.4	10338.5	11951.8	10224.5	7719.7	6030.4	5369.3	5176.8	5260.4	5331.3
7101.7	45°	8725.2	11156.6	12167.1	9837.0	6823.1	5328.8	4986.9	5032.5	5095.8	5103.4
7408.2	47.5°	9398.9	11984.7	12308.9	9252.0	5908.8	4834.9	4743.8	4753.9	4741.2	4688.0
7866.6	50°	10239.7	12790.1	12435.6	8477.0	5131.3	4525.9	4404.4	4368.9	4194.2	4021.9
8477.0	52.5°	11197.1	13529.7	12488.8	7514.5	4525.9	4267.6	4070.1	3847.2	3520.5	3467.3
9244.4	55°	12260.8	14213.5	12352.0	6331.8	4016.9	3935.8	3637.0	3368.5	3333.0	3287.4
10254.9	57.5°	13532.2	14950.5	12073.4	5012.2	3495.1	3548.3	3257.1	3287.4	3224.1	3153.2
11554.2	60°	14922.7	15712.9	11584.6	3809.2	2955.7	3064.6	3158.3	3155.7	3138.0	3079.8
12924.4	62.5°	16173.8	16214.4	10622.2	2917.7	2482.0	2689.7	2945.5	2943.0	2927.8	2894.9
14355.4	65°	16918.4	16138.4	9016.4	2297.2	2092.0	2380.7	2656.8	2677.1	2679.6	2677.1
15431.8	67.5°	16786.7	15249.4	6813.0	1828.6	1770.4	2066.7	2370.6	2398.5	2418.7	2423.8
15568.5	70°	15297.5	13296.7	4442.4	1458.8	1484.2	1790.6	2099.6	2127.5	2145.2	2165.5
13509.4	72.5°	11924.0	9776.2	2542.8	1180.2	1233.4	1552.5	1831.1	1864.1	1874.2	1912.2
9401.4	75°	7266.3	5749.2	1372.7	929.5	1013.1	1327.1	1565.2	1603.2	1620.9	1666.5
4617.1	77.5°	3454.6	2489.6	782.6	724.4	815.5	1084.0	1322.1	1365.1	1317.0	1342.3
1273.9	80°	1167.6	924.4	493.9	552.1	623.0	845.9	1058.7	1101.7	1000.4	995.4
423.0	82.5°	407.8	374.8	314.1	367.2	402.7	605.3	800.3	856.1	744.6	742.1
190.0	85°	159.6	152.0	174.8	200.1	240.6	372.3	526.8	554.7	458.4	369.8
55.7	87.5°	32.9	35.5	43.1	45.6	73.4	129.2	190.0	233.0	184.9	157.0
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>
5460.5
5665.7
5964.5
6309.0
6701.5
7149.8
7701.9
8302.2
8628.9
8459.2
8003.3
7539.9
7134.6
6747.1
6329.2
5883.5
5488.4
5397.2
5154.0
4728.6
4044.7
3485.0
3295.0
3140.6
3059.5
2882.2
2677.1
2428.9
2175.6
1927.4
1671.6
1322.1
985.2
706.6
364.7
144.4
0.0

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