

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: P954288

Luminaire Tested: **GALN-SB7C-830-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954288  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB7C-830-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

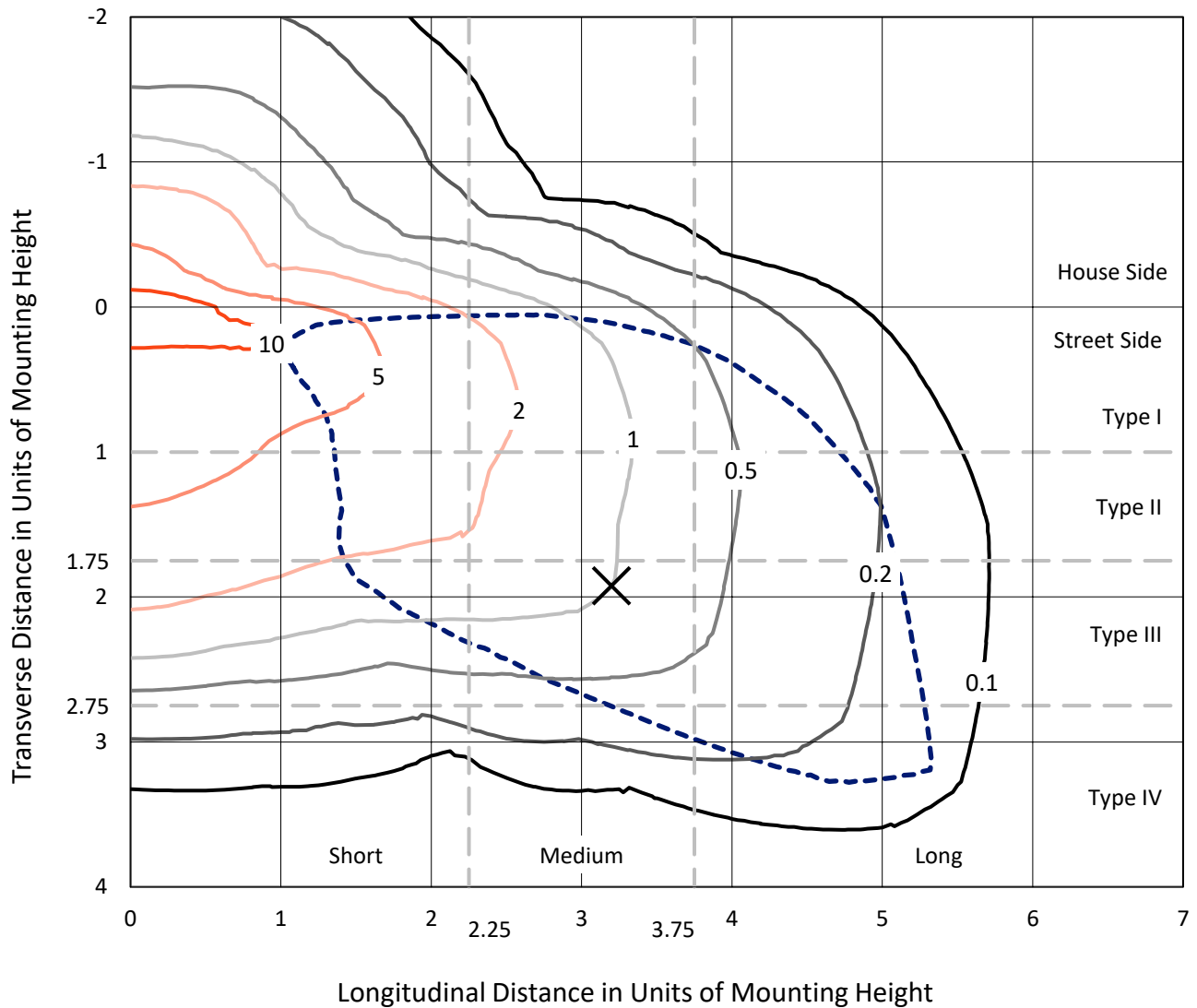
Lumens per Lamp: N/A  
Luminaire Lumens: 46772 lumens  
Efficiency: N/A  
Efficacy: 133.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 350.5  
Input Voltage (V): NR  
Input Current (Ain): 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

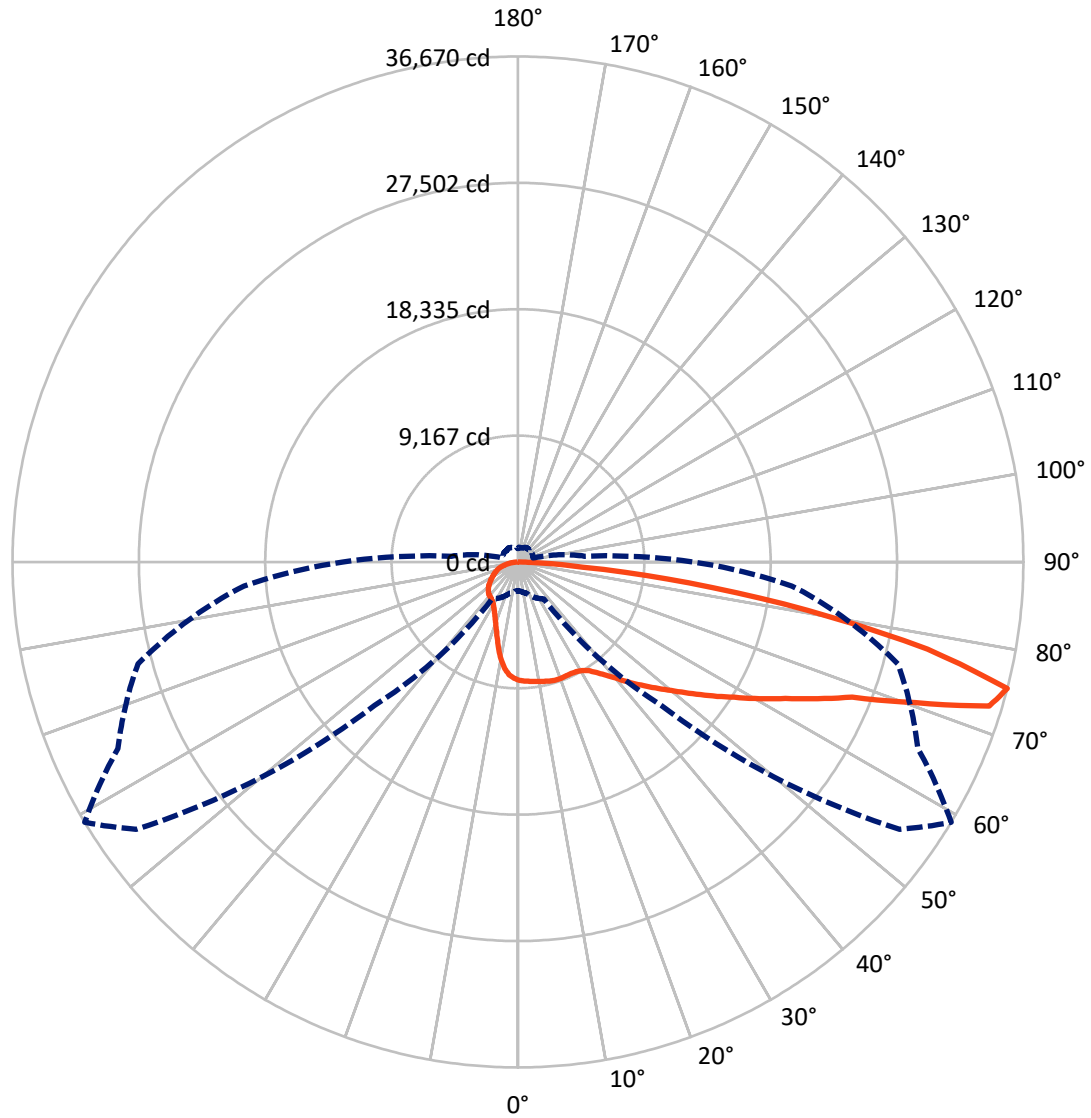
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8772.4	0.0	8772.4
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	37999.6	0.0	37999.6
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	46772.0	0.0	46772.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	769.8	1.6
10°-20°	1967.6	4.2
20°-30°	2988.6	6.4
30°-40°	4442.5	9.5
40°-50°	6606.8	14.1
50°-60°	8967.9	19.2
60°-70°	10948.3	23.4
70°-80°	8592.1	18.4
80°-90°	1488.4	3.2
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°	46772.0	100.0
0°-180°	46772.0	100.0

**Coefficient of Utilization**



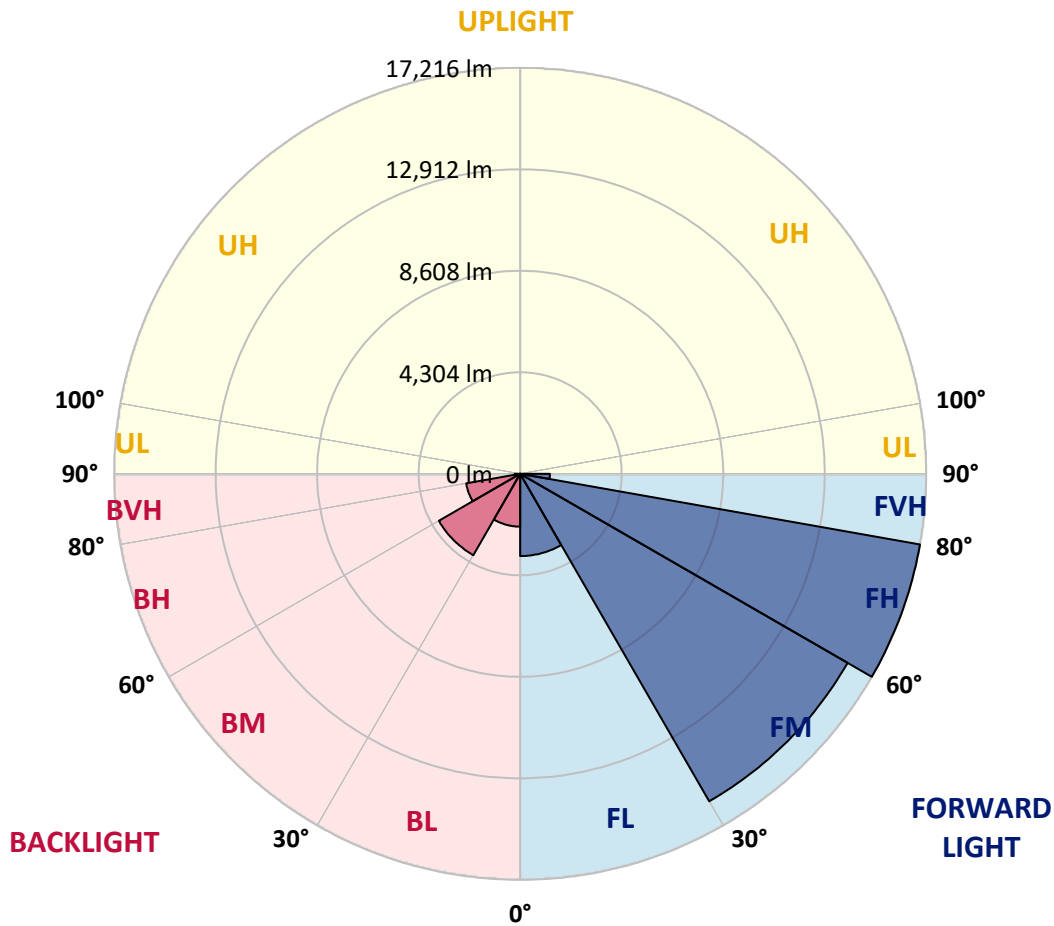
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3487.4	7.5			
FM (30°-60°)	16035.4	34.3			
FH (60°-80°)	17216.3	36.8			G5
FVH (80°-90°)	1260.5	2.7			G5
BL (0°-30°)	2238.6	4.8	B3/2500		
BM (30°-60°)	3981.8	8.5	B3/5000		
BH (60°-80°)	2324.1	5.0	B3/2500		G3/2500
BVH (80°-90°)	227.8	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	8584.9	8584.9	8584.9	8584.9	8584.9	8584.9	8584.9	8584.9	8584.9	8584.9
2.5°	8657.9	8627.7	8657.9	8645.3	8640.3	8630.2	8632.7	8650.3	8640.3	8652.8
5°	8600.0	8582.4	8612.6	8605.0	8637.7	8642.8	8675.5	8695.6	8708.2	8710.7
7.5°	8504.4	8486.8	8529.5	8564.8	8635.2	8655.3	8723.3	8756.0	8773.6	8803.8
10°	8154.6	8147.1	8252.8	8386.1	8552.2	8655.3	8758.5	8813.9	8841.5	8922.1
12.5°	7535.7	7545.8	7684.1	7940.8	8272.9	8605.0	8798.8	8879.3	8922.1	9022.7
15°	6944.4	6941.9	7092.9	7367.1	7832.6	8383.6	8818.9	8957.3	9030.2	9178.7
17.5°	6602.2	6592.2	6697.8	6906.7	7339.4	8043.9	8768.6	9000.1	9156.0	9342.2
20°	6539.3	6519.2	6574.5	6677.7	6984.7	7671.6	8637.7	9000.1	9256.7	9498.2
22.5°	6768.3	6735.6	6712.9	6700.3	6836.2	7364.6	8489.3	8969.9	9405.1	9722.2
25°	7228.7	7178.4	7062.7	6949.4	6909.2	7226.2	8358.4	8962.3	9626.6	10024.1
27.5°	7973.5	7910.6	7676.6	7404.9	7160.8	7296.7	8300.6	9007.6	9870.6	10343.6
30°	8896.9	8829.0	8534.6	8116.9	7679.1	7558.3	8373.5	9141.0	10182.6	10768.9
32.5°	9724.7	9649.2	9397.6	8972.4	8381.1	8011.2	8605.0	9395.1	10673.3	11360.1
35°	10459.4	10371.3	10144.9	9752.4	9241.6	8647.8	9022.7	9845.5	11370.2	12321.3
37.5°	11179.0	11075.8	10829.2	10414.1	10056.8	9495.7	9598.9	10424.2	12296.1	13488.8
40°	11984.1	11835.7	11536.3	11126.1	10778.9	10489.6	10356.2	11133.7	13237.1	14792.1
42.5°	12764.1	12623.2	12265.9	11916.2	11480.9	11397.9	11234.3	11964.0	14266.2	16223.7
45°	13604.5	13435.9	13003.1	12560.3	12286.1	12001.7	12084.8	12794.3	15275.2	17683.1
47.5°	14392.0	14203.3	13692.6	13199.4	13048.4	12510.0	12864.8	13707.7	16324.4	19162.5
50°	14817.2	14631.1	14205.8	13760.5	13642.2	13136.5	13710.2	14711.6	17423.9	20637.0
52.5°	15172.0	14970.7	14414.7	14168.1	14132.9	13818.4	14751.8	15858.9	18523.4	21940.3
55°	15549.4	15325.5	14616.0	14394.5	14555.6	14583.3	15987.2	17159.7	19685.9	23210.9
57.5°	15984.7	15700.4	14809.7	14585.8	14968.2	15479.0	17406.3	18508.4	20828.2	24388.5
60°	16394.8	16108.0	15182.1	14890.2	15413.6	16518.1	19034.2	20141.3	22121.5	25437.7
62.5°	16475.4	16238.8	15479.0	15476.5	16017.4	17730.9	20961.5	21789.3	23251.2	26474.3
65°	15081.4	14933.0	14482.6	15453.8	16883.0	19477.0	23107.8	23897.8	24687.9	27380.1
67.5°	11478.4	11498.5	11465.8	13340.3	16183.5	21985.6	26215.1	26154.7	26461.7	28396.6
70°	5248.6	5366.8	6136.7	9208.9	12965.4	22274.9	31353.0	30570.5	28688.4	29712.5
72.5°	2835.6	2926.2	3240.7	4461.0	7794.8	19804.1	35192.5	35748.6	31649.9	30598.2
75°	2080.8	2131.1	2350.0	2835.6	3273.4	14719.1	33816.2	36669.5	32019.8	28532.5
77.5°	1557.5	1580.1	1758.7	2246.9	1675.7	7759.6	27020.3	30369.2	27410.3	23442.4
80°	1129.7	1154.9	1288.2	1685.8	1175.0	2838.1	18553.6	21316.3	18772.5	14943.1
82.5°	780.0	790.1	847.9	1147.3	820.2	1102.0	10527.3	12499.9	10479.5	5243.5
85°	470.5	483.1	508.3	669.3	465.5	523.3	4544.1	4700.1	3132.5	1253.0
87.5°	193.7	206.3	226.4	281.8	183.7	145.9	749.8	941.0	586.2	367.3
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°
8584.9	0°	8584.9	8584.9	8584.9	8584.9	8584.9	8584.9	8584.9	8584.9	8584.9	8584.9
8610.1	2.5°	8597.5	8579.9	8532.1	8466.6	8406.3	8330.8	8298.1	8270.4	8245.2	8197.4
8678.0	5°	8650.3	8602.5	8474.2	8308.1	8119.4	7913.1	7711.8	7573.4	7455.2	7367.1
8756.0	7.5°	8730.8	8640.3	8406.3	8066.6	7633.8	7191.0	6790.9	6506.6	6292.7	6214.7
8866.7	10°	8813.9	8705.7	8298.1	7699.2	6952.0	6270.1	5739.2	5447.3	5276.2	5220.9
8997.5	12.5°	8912.0	8753.5	8129.5	7188.5	6189.6	5442.3	4979.3	4808.2	4720.2	4690.0
9158.6	15°	9055.4	8793.7	7875.4	6549.4	5462.4	4838.4	4539.0	4420.8	4375.5	4373.0
9324.6	17.5°	9163.6	8801.3	7480.3	5865.0	4903.9	4473.6	4227.0	4181.7	4211.9	4257.2
9488.2	20°	9284.4	8733.3	6962.0	5241.0	4511.3	4154.1	4050.9	4081.1	4154.1	4219.5
9704.6	22.5°	9369.9	8610.1	6335.5	4755.4	4171.7	3970.4	3965.4	4028.3	4068.5	4101.2
9958.7	25°	9445.4	8401.2	5671.3	4347.8	3892.4	3859.7	3915.0	3894.9	3867.2	3894.9
10212.8	27.5°	9500.8	8071.6	5077.5	3990.5	3696.1	3784.2	3751.5	3706.2	3703.7	3718.8
10512.2	30°	9483.1	7631.3	4589.3	3650.8	3557.8	3643.3	3565.3	3557.8	3550.2	3557.8
10962.6	32.5°	9483.1	7130.6	4214.4	3416.8	3469.7	3437.0	3429.4	3411.8	3381.6	3379.1
11574.0	35°	9536.0	6629.9	3892.4	3291.0	3396.7	3318.7	3323.8	3281.0	3218.1	3187.9
12384.2	37.5°	9644.2	6227.3	3572.8	3230.7	3268.4	3265.9	3245.8	3172.8	3062.1	2966.5
13395.7	40°	9905.8	6109.1	3353.9	3203.0	3208.0	3238.2	3185.4	3044.5	2792.9	2636.9
14422.2	42.5°	10316.0	6307.8	3306.1	3135.0	3167.8	3197.9	3094.8	2767.7	2589.1	2496.0
15499.1	45°	10836.8	6655.1	3409.3	3036.9	3072.1	3125.0	2818.0	2662.0	2581.5	2584.0
16565.9	47.5°	11496.0	7019.9	3600.5	2951.4	2933.8	2964.0	2634.3	2538.7	2428.0	2455.7
17590.0	50°	12258.4	7389.8	3781.7	2835.6	2780.3	2682.2	2516.1	2425.5	2284.6	2219.2
18578.8	52.5°	13083.7	7747.0	3854.6	2694.7	2614.2	2501.0	2435.6	2324.9	2153.8	2045.6
19512.3	55°	13866.2	8071.6	3774.1	2526.2	2448.2	2360.1	2350.0	2282.1	2098.4	1947.5
20342.6	57.5°	14605.9	8343.4	3572.8	2355.1	2279.6	2226.7	2294.7	2262.0	2030.5	1836.7
21127.6	60°	15232.4	8529.5	3281.0	2181.4	2128.6	2100.9	2204.1	2194.0	1934.9	1718.5
21832.1	62.5°	15730.6	8602.5	2958.9	2015.4	2002.8	1952.5	2078.3	2078.3	1814.1	1602.7
22451.1	65°	16120.6	8532.1	2631.8	1851.8	1877.0	1801.5	1924.8	1909.7	1685.8	1499.6
23163.1	67.5°	16465.3	8300.6	2269.5	1690.8	1748.7	1653.1	1763.8	1728.6	1544.9	1396.4
23779.6	70°	16618.8	7762.1	1856.9	1529.8	1600.2	1507.1	1602.7	1537.3	1386.4	1285.7
23102.7	72.5°	15385.9	6451.3	1461.8	1361.2	1421.6	1346.1	1429.1	1353.7	1215.3	1170.0
19950.1	75°	12728.9	4841.0	1124.7	1177.5	1222.8	1164.9	1220.3	1164.9	1039.1	1071.9
14736.7	77.5°	9244.1	3268.4	860.5	983.8	1003.9	973.7	1021.5	958.6	845.4	837.9
7344.5	80°	4596.9	1914.7	674.3	777.5	769.9	749.8	805.1	775.0	679.3	719.6
1982.7	82.5°	1331.0	820.2	490.6	546.0	530.9	535.9	576.2	591.3	885.7	878.1
616.4	85°	417.7	322.1	294.4	304.4	289.4	296.9	339.7	674.3	624.0	364.8
191.2	87.5°	108.2	110.7	73.0	78.0	80.5	95.6	108.2	410.1	196.3	128.3
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>
8584.9
8174.8
7294.1
6078.9
5135.3
4697.5
4383.0
4274.8
4242.1
4118.8
3912.5
3743.9
3585.4
3411.8
3218.1
2999.2
2657.0
2496.0
2596.6
2526.2
2236.8
2043.1
1947.5
1826.7
1710.9
1595.2
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1386.4
1265.6
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978.8
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712.1
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