

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: P951796

Luminaire Tested: **GALN-SB5D-830-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951796  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5D-830-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

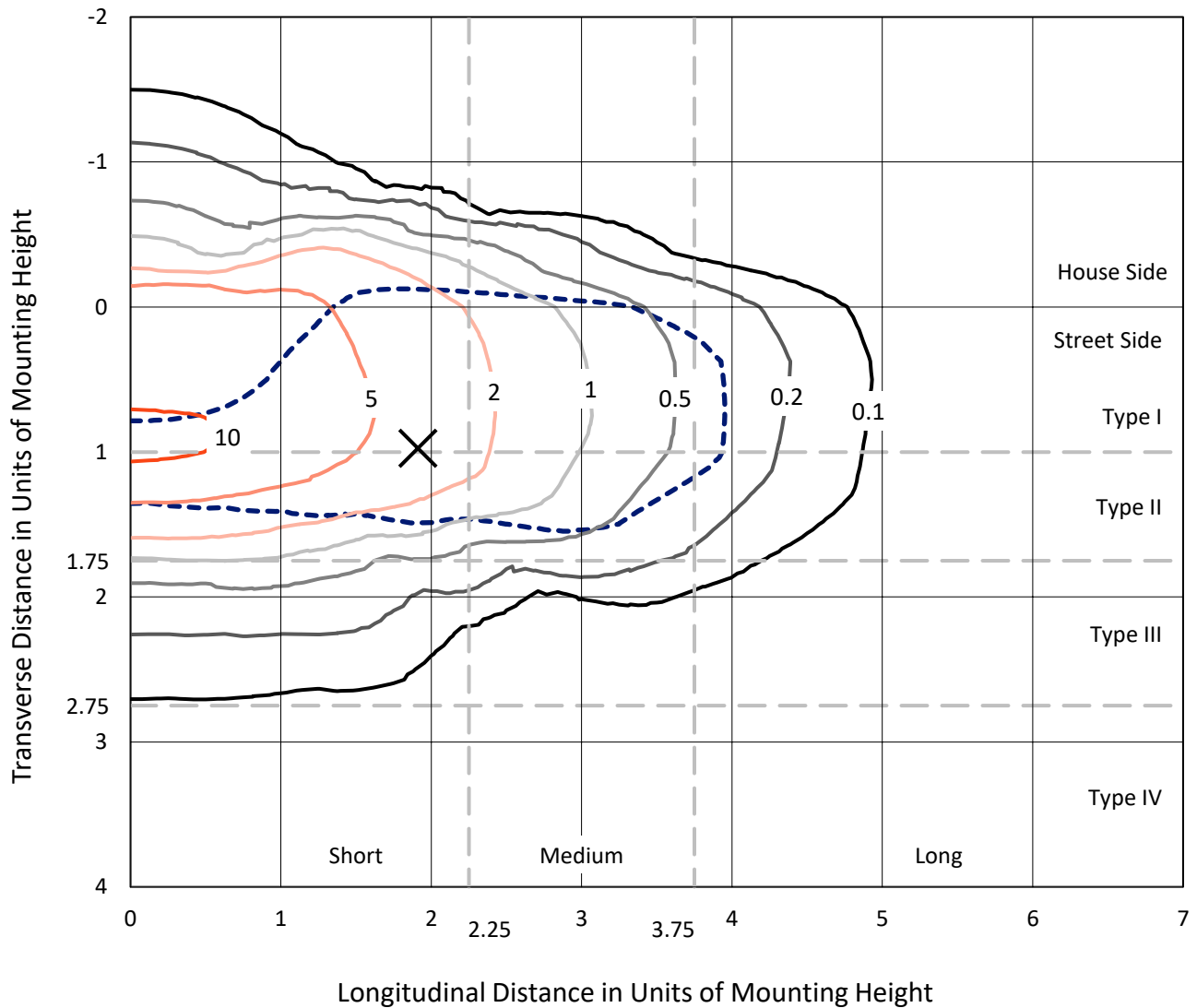
Lumens per Lamp: N/A  
Luminaire Lumens: 35299 lumens  
Efficiency: N/A  
Efficacy: 96.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

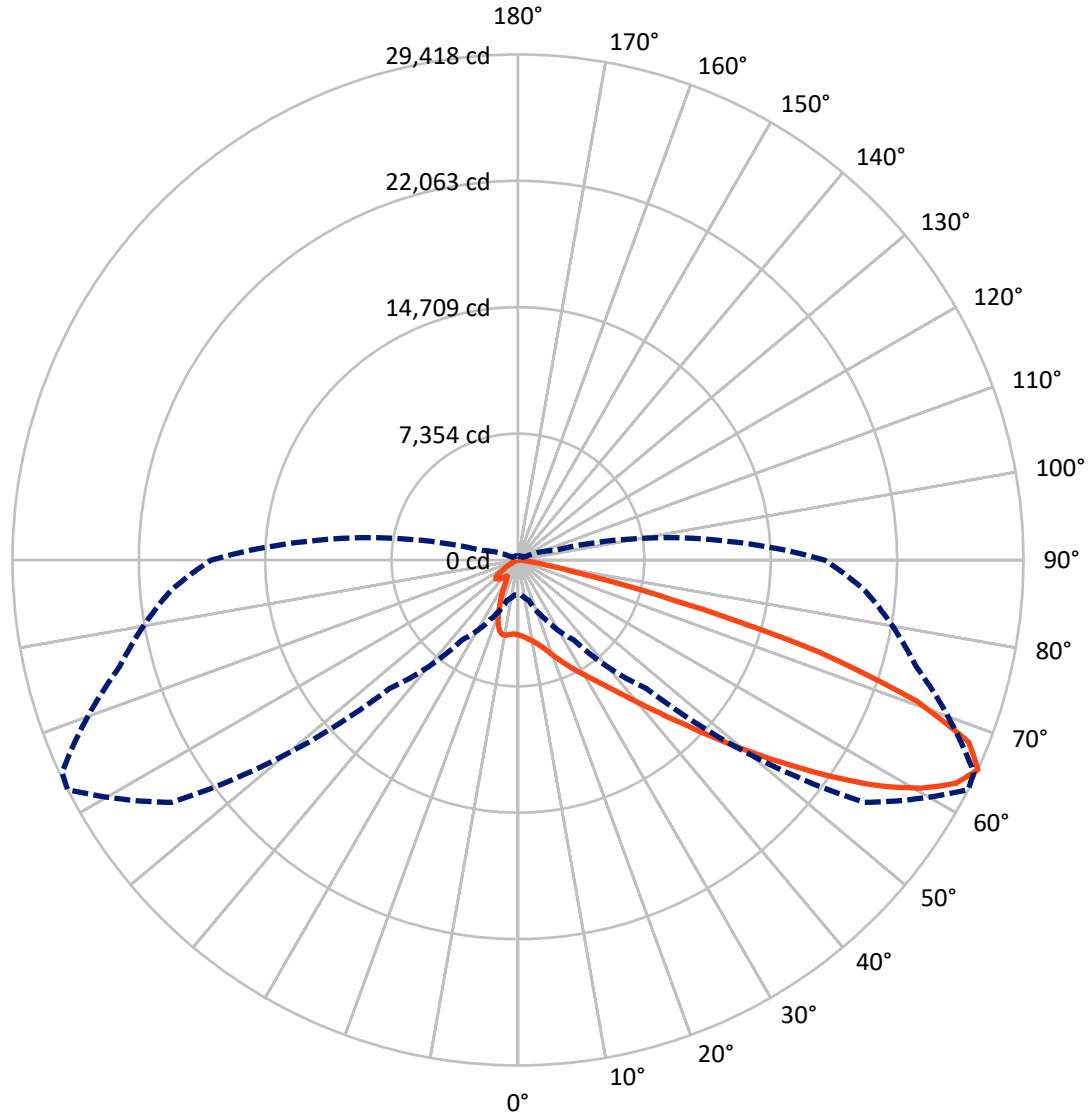
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5188.7	0.0	5188.7
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	30110.3	0.0	30110.3
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	35299.0	0.0	35299.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	410.5	1.2
10°-20°	1138.9	3.2
20°-30°	1983.1	5.6
30°-40°	3574.4	10.1
40°-50°	7089.1	20.1
50°-60°	9656.6	27.4
60°-70°	7707.8	21.8
70°-80°	3488.0	9.9
80°-90°	250.7	0.7
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°	35299.0	100.0
0°-180°	35299.0	100.0

**Coefficient of Utilization**



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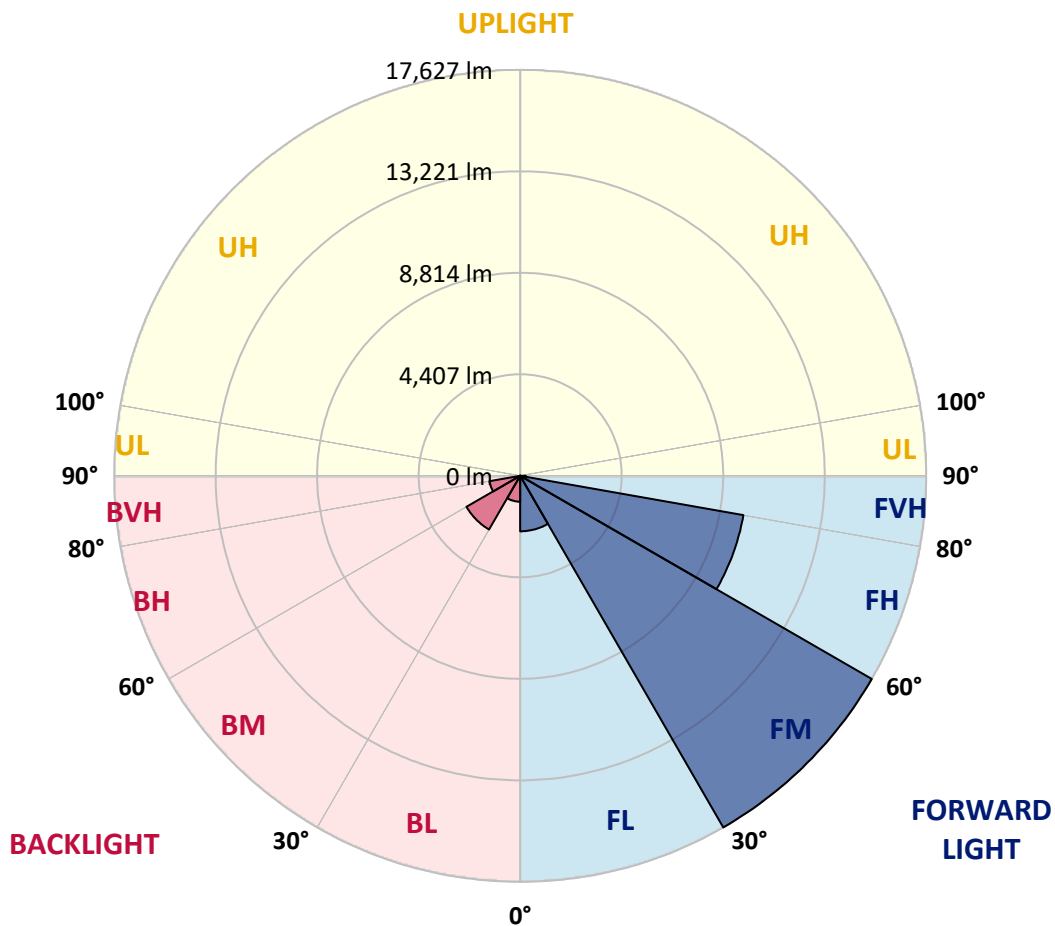
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2409.6	6.8			
FM (30°-60°)	17627.4	49.9			
FH (60°-80°)	9841.2	27.9			G4/12000
FVH (80°-90°)	232.1	0.7			G3/500
BL (0°-30°)	1122.9	3.2	B3/2500		
BM (30°-60°)	2692.6	7.6	B3/5000		
BH (60°-80°)	1354.6	3.8	B3/2500		G3/2500
BVH (80°-90°)	18.6	0.1			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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	4356.6	4356.6	4356.6	4356.6	4356.6	4356.6	4356.6	4356.6	4356.6	4356.6
2.5°	4458.6	4446.4	4463.4	4456.1	4451.3	4441.6	4436.7	4431.8	4422.1	4414.8
5°	4470.7	4463.4	4480.4	4495.0	4509.6	4524.1	4531.4	4541.1	4531.4	4512.0
7.5°	4368.7	4363.8	4400.3	4444.0	4509.6	4565.4	4626.1	4660.1	4662.5	4655.3
10°	4361.4	4349.3	4385.7	4439.1	4524.1	4623.7	4730.5	4803.4	4813.1	4844.7
12.5°	4475.6	4463.4	4514.4	4572.7	4660.1	4764.5	4895.7	4997.7	5012.2	5055.9
15°	4667.4	4650.4	4708.7	4784.0	4895.7	5014.7	5153.1	5245.4	5257.5	5310.9
17.5°	4890.8	4873.8	4941.8	5021.9	5143.4	5306.1	5466.3	5568.3	5582.9	5616.9
20°	5177.4	5155.5	5208.9	5281.8	5410.5	5604.8	5796.6	5942.3	5939.9	5939.9
22.5°	5510.1	5476.1	5522.2	5580.5	5701.9	5937.5	6192.4	6364.9	6364.9	6296.9
25°	5867.0	5833.0	5884.0	5937.5	6044.3	6311.4	6610.1	6823.8	6833.5	6717.0
27.5°	6313.9	6270.1	6309.0	6372.1	6435.3	6707.3	7061.8	7309.5	7314.4	7134.7
30°	7173.5	7049.7	6928.2	6860.3	6889.4	7158.9	7537.8	7812.2	7836.5	7588.8
32.5°	8747.1	8722.8	8295.4	7736.9	7445.5	7644.6	8069.6	8399.9	8414.4	8096.3
35°	11192.5	11163.4	10476.2	9412.5	8463.0	8295.4	8715.6	9106.5	9096.8	8737.4
37.5°	14111.5	14084.8	13179.0	11755.9	10218.7	9278.9	9548.5	9958.9	10019.6	9548.5
40°	16605.5	16505.9	15932.8	14560.7	12550.0	10910.8	10733.6	11005.5	11068.7	10510.1
42.5°	18494.8	18409.8	18118.4	17261.1	15371.8	13324.7	12129.9	12234.3	12304.7	11634.5
45°	19473.4	19454.0	19570.5	19490.4	18247.1	16287.3	14126.0	13691.4	13718.1	12880.3
47.5°	19611.8	19602.1	20133.9	20886.7	20719.2	19628.8	16688.0	15507.8	15413.1	14286.3
50°	18795.9	18776.4	19796.4	21207.3	22370.5	22436.1	19597.3	17555.0	17346.1	15740.9
52.5°	16190.2	16185.3	17860.9	20209.2	22950.9	24893.6	22472.5	19803.7	19454.0	17280.5
55°	12457.7	12547.6	14468.5	17244.1	21892.1	26076.2	25053.9	22300.1	21763.4	18829.9
57.5°	8824.8	8956.0	10855.0	13327.1	18608.9	25376.9	26799.9	24801.3	24223.4	20374.3
60°	4740.3	4856.8	6758.3	9708.8	13844.4	22768.8	27720.3	26972.3	26425.9	21841.1
62.5°	2824.2	2863.1	3649.9	6267.7	9363.9	17394.7	27329.3	28626.1	28176.8	23072.3
65°	2027.7	2035.0	2430.8	3827.2	5684.9	10568.4	24587.6	29417.7	29279.3	24000.0
67.5°	1707.2	1702.3	1867.4	2542.5	3873.3	5293.9	18844.4	28298.2	28885.9	24587.6
70°	1464.3	1471.6	1665.9	1862.6	2911.7	2996.7	9368.8	24638.6	25891.7	24743.0
72.5°	1090.4	1114.6	1294.3	1697.5	2197.7	2061.7	3234.6	18268.9	20534.6	23312.7
75°	769.8	781.9	910.7	1427.9	1639.2	1500.8	1651.3	9444.1	12348.5	17873.1
77.5°	592.5	614.4	689.7	998.1	1614.9	1053.9	1010.2	3268.6	5021.9	10796.7
80°	320.5	359.4	497.8	721.2	1134.1	745.5	500.3	1301.6	1702.3	5048.7
82.5°	165.1	184.6	347.3	519.7	646.0	650.8	247.7	541.5	701.8	1559.0
85°	65.6	80.1	233.1	286.6	332.7	320.5	111.7	218.6	252.6	432.3
87.5°	14.6	24.3	85.0	65.6	63.1	68.0	26.7	51.0	48.6	51.0
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°
4356.6	0°	4356.6	4356.6	4356.6	4356.6	4356.6	4356.6	4356.6	4356.6	4356.6	4356.6
4385.7	2.5°	4383.3	4373.6	4346.8	4317.7	4283.7	4264.3	4252.1	4249.7	4232.7	4220.6
4482.8	5°	4456.1	4446.4	4395.4	4334.7	4269.1	4218.1	4169.6	4125.9	4062.7	4050.6
4623.7	7.5°	4601.8	4575.1	4492.6	4410.0	4286.1	4138.0	3958.3	3751.9	3567.3	3511.5
4810.7	10°	4781.5	4745.1	4640.7	4495.0	4220.6	3817.5	3382.8	2979.7	2659.1	2569.3
5031.7	12.5°	4985.5	4954.0	4815.5	4546.0	3946.2	3215.2	2549.8	2049.6	1738.7	1661.0
5267.2	15°	5228.4	5182.2	4990.4	4468.3	3455.6	2443.0	1750.9	1454.6	1342.9	1328.3
5536.8	17.5°	5485.8	5410.5	5145.8	4189.0	2795.1	1736.3	1352.6	1267.6	1219.1	1204.5
5808.8	20°	5721.3	5624.2	5238.1	3766.5	2088.4	1352.6	1211.8	1155.9	1112.2	1095.2
6080.7	22.5°	5956.9	5818.5	5238.1	3190.9	1566.3	1199.6	1112.2	1061.2	1010.2	988.4
6372.1	25°	6202.2	6017.6	5145.8	2549.8	1260.3	1100.1	1017.5	961.6	917.9	891.2
6649.0	27.5°	6440.1	6185.2	4934.5	1942.7	1121.9	1012.6	930.1	876.7	835.4	815.9
6950.1	30°	6666.0	6350.3	4638.3	1474.0	1032.1	927.7	849.9	803.8	762.5	743.1
7341.1	32.5°	6972.0	6559.1	4322.6	1209.3	954.4	847.5	777.1	733.4	697.0	682.4
7848.6	35°	7396.9	6867.5	4050.6	1187.5	888.8	781.9	711.5	670.2	633.8	621.7
8504.3	37.5°	7999.2	7365.4	3907.3	1333.2	835.4	723.7	658.1	614.4	580.4	570.7
9337.2	40°	8742.3	8040.5	3985.0	1478.9	798.9	672.7	609.5	565.8	536.7	524.5
10294.0	42.5°	9623.8	8873.4	4414.8	1590.6	774.7	629.0	563.4	514.8	495.4	490.5
11379.5	45°	10636.4	9788.9	5072.9	1709.6	735.8	587.7	517.3	480.8	466.3	463.8
12559.7	47.5°	11787.5	10794.3	5835.5	1857.7	697.0	548.8	480.8	456.5	444.4	439.5
13790.9	50°	12928.8	11806.9	6619.8	1940.3	665.4	512.4	451.7	432.3	422.5	420.1
15092.6	52.5°	14123.6	12848.7	7253.7	1862.6	638.7	483.3	427.4	412.8	403.1	400.7
16292.2	55°	15262.5	13691.4	7362.9	1580.9	585.2	454.1	400.7	393.4	381.3	381.3
17508.8	57.5°	16243.6	14113.9	6590.7	1160.8	531.8	410.4	374.0	366.7	357.0	354.5
18606.5	60°	17144.6	13992.5	5087.5	781.9	473.5	366.7	340.0	335.1	325.4	313.3
19560.8	62.5°	17652.1	13458.2	3479.9	510.0	415.3	320.5	301.1	298.7	276.8	252.6
20267.5	65°	17843.9	12360.6	2171.0	371.5	347.3	274.4	259.8	255.0	223.4	196.7
20668.2	67.5°	17676.4	10553.9	1095.2	293.8	274.4	228.3	213.7	213.7	191.8	167.6
20643.9	70°	17006.1	7911.8	461.4	235.6	211.3	174.8	174.8	184.6	162.7	136.0
19573.0	72.5°	15551.5	5323.1	245.3	179.7	157.8	123.8	143.3	150.6	128.7	102.0
16020.2	75°	12363.0	3246.8	170.0	133.6	99.6	87.4	109.3	114.1	87.4	68.0
10983.7	77.5°	8455.7	1865.0	114.1	85.0	63.1	51.0	75.3	70.4	46.1	31.6
4235.1	80°	3713.0	777.1	65.6	38.9	24.3	19.4	26.7	19.4	14.6	9.7
580.4	82.5°	434.7	182.1	24.3	14.6	9.7	4.9	2.4	0.0	0.0	0.0
177.3	85°	89.9	21.9	12.1	4.9	2.4	0.0	0.0	0.0	0.0	0.0
31.6	87.5°	17.0	4.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
4356.6
4232.7
4045.7
3484.8
2535.3
1639.2
1313.8
1197.2
1085.5
976.2
881.5
815.9
745.5
682.4
621.7
568.2
522.1
490.5
461.4
439.5
420.1
400.7
378.8
352.1
310.8
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194.3
165.1
133.6
102.0
65.6
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