

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: P950414

Luminaire Tested: **GALN-SB4D-840-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-840-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30049 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

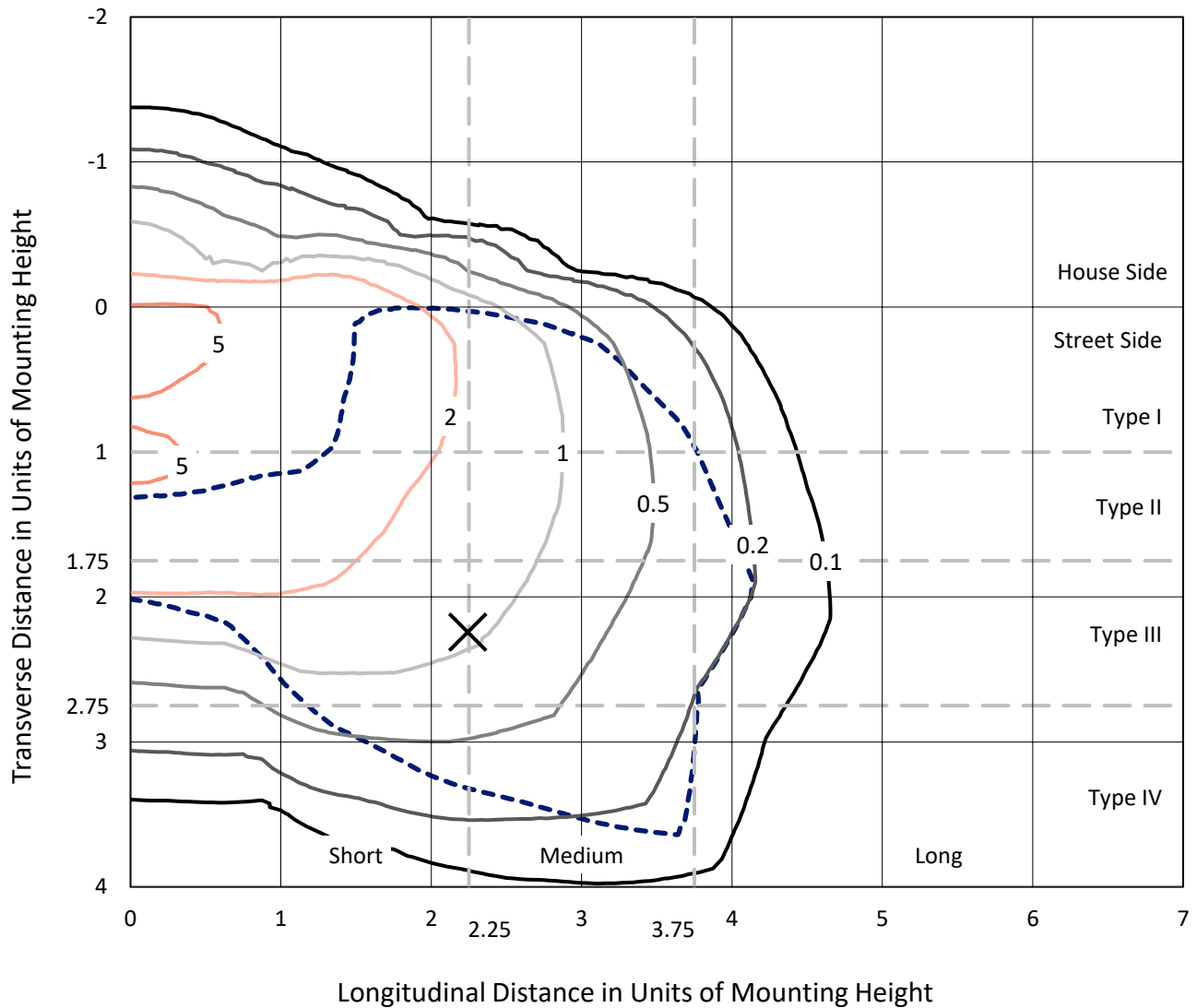
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

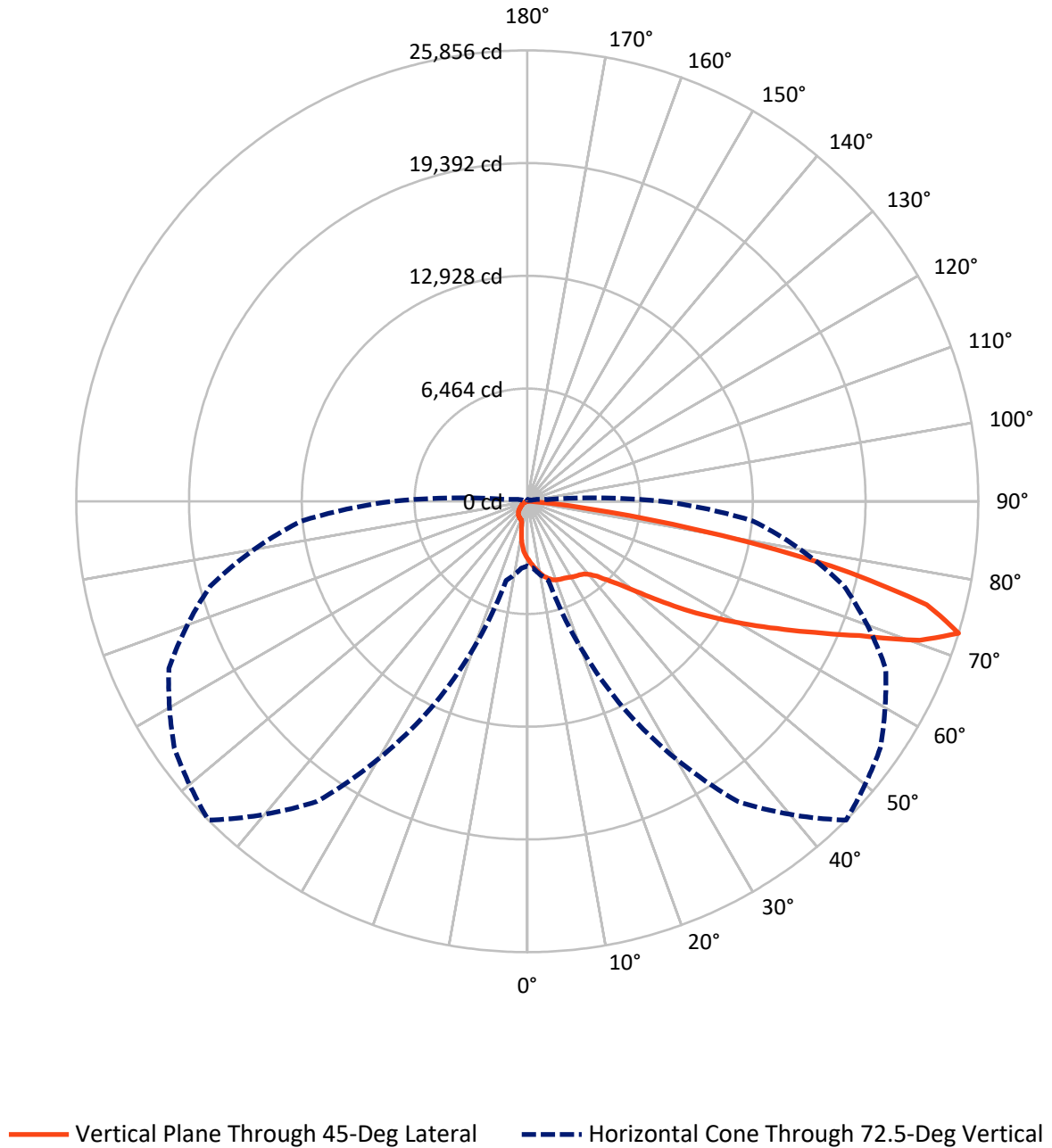
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3157.3	0.0	3157.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	26891.7	0.0	26891.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	30049.0	0.0	30049.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.2	1.0
10°-20°	906.5	3.0
20°-30°	1488.6	5.0
30°-40°	2111.2	7.0
40°-50°	3489.5	11.6
50°-60°	6268.6	20.9
60°-70°	8704.2	29.0
70°-80°	6313.8	21.0
80°-90°	456.5	1.5
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°	30049.0	100.0
0°-180°	30049.0	100.0

Coefficient of Utilization



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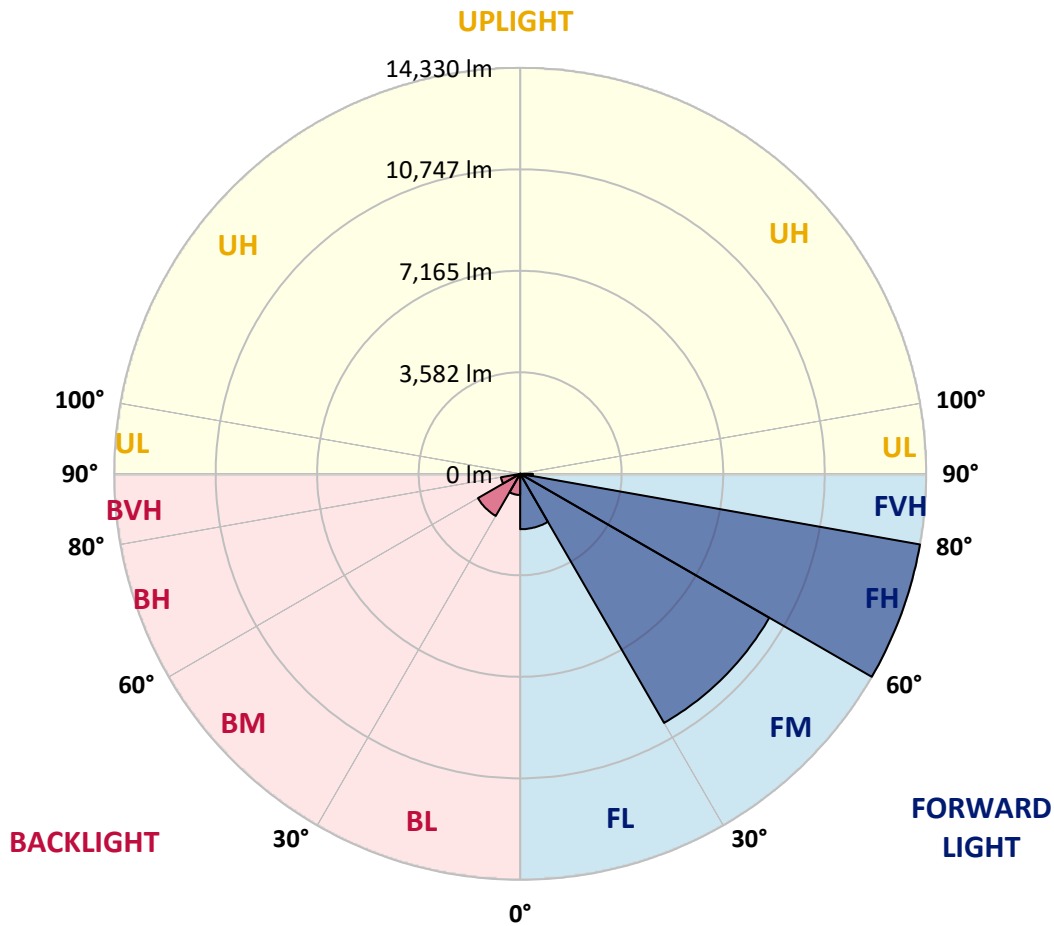
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1957.4	6.5			
FM (30°-60°)	10152.2	33.8			
FH (60°-80°)	14329.5	47.7			G5
FVH (80°-90°)	452.6	1.5			G3/500
BL (0°-30°)	747.8	2.5	B2/1000		
BM (30°-60°)	1717.1	5.7	B2/2500		
BH (60°-80°)	688.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3291.9	3291.9	3291.9	3291.9	3291.9	3291.9	3291.9	3291.9	3291.9	3291.9
2.5°	3595.5	3601.6	3597.5	3572.9	3531.9	3509.3	3497.0	3456.0	3429.4	3382.2
5°	3925.7	3950.3	3936.0	3886.7	3808.8	3753.4	3737.0	3652.9	3577.0	3488.8
7.5°	4276.4	4288.7	4262.1	4198.5	4093.9	3999.5	3985.2	3868.3	3747.3	3611.9
10°	4580.0	4594.3	4553.3	4461.0	4342.1	4225.2	4204.6	4075.4	3931.9	3765.7
12.5°	4834.3	4848.7	4795.3	4684.6	4553.3	4432.3	4411.8	4276.4	4118.5	3933.9
15°	5027.1	5053.8	4982.0	4863.0	4721.5	4600.5	4590.2	4456.9	4303.1	4098.0
17.5°	5139.9	5166.6	5098.9	4955.3	4834.3	4731.8	4719.5	4608.7	4465.1	4268.2
20°	5158.4	5183.0	5111.2	4986.1	4885.6	4803.6	4797.4	4717.4	4612.8	4424.1
22.5°	5103.0	5133.8	5068.1	4967.6	4897.9	4854.8	4846.6	4801.5	4742.0	4582.0
25°	5045.6	5070.2	5021.0	4932.8	4895.9	4891.7	4897.9	4889.7	4877.4	4742.0
27.5°	5041.5	5068.1	5012.8	4928.7	4908.2	4951.2	4957.4	4996.4	5006.6	4887.6
30°	5076.3	5094.8	5041.5	4953.3	4943.0	5041.5	5043.5	5113.3	5129.7	5010.7
32.5°	5152.2	5172.7	5119.4	4990.2	4975.8	5113.3	5119.4	5211.7	5238.4	5142.0
35°	5330.7	5355.3	5293.8	5092.8	5041.5	5180.9	5199.4	5308.1	5361.4	5281.4
37.5°	5775.8	5704.0	5619.9	5299.9	5191.2	5287.6	5318.4	5445.5	5539.9	5447.6
40°	6881.3	6655.7	6393.1	5652.7	5453.7	5515.3	5539.9	5667.0	5796.3	5706.0
42.5°	8540.6	8273.9	7851.4	6464.9	5849.6	5880.4	5898.8	6009.6	6192.1	6120.3
45°	10019.4	9923.0	9492.2	7851.4	6590.0	6438.2	6460.8	6518.2	6786.9	6760.3
47.5°	11155.6	11100.3	10768.0	9443.0	7841.2	7121.2	7184.8	7211.5	7599.1	7693.5
50°	12029.4	12008.9	11711.5	10858.2	9475.8	8128.3	8150.9	8093.4	8673.9	8907.7
52.5°	12853.9	12923.7	12704.2	12173.0	11221.3	9447.1	9443.0	9172.3	9955.8	10308.6
55°	13598.4	13623.1	13645.6	13514.4	12977.0	10948.5	10909.5	10466.5	11442.8	11807.9
57.5°	14297.9	14308.1	14509.1	14777.8	14804.5	12560.6	12488.8	11957.6	13067.2	13327.7
60°	14767.5	14814.7	15239.3	15985.9	16312.0	14224.0	14185.0	13643.6	14720.4	14841.4
62.5°	14090.7	14377.8	15448.5	16929.3	17735.4	16067.9	16049.4	15540.8	16459.7	16361.2
65°	11405.9	11892.0	13774.8	17567.2	19132.2	18127.2	18153.8	17612.3	18246.1	17926.2
67.5°	7978.6	8491.3	10718.8	17618.5	20693.0	20545.3	20699.2	19850.0	20143.3	19425.5
70°	5517.3	5781.9	7232.0	16515.0	21909.3	23876.2	23872.1	22598.4	22030.3	20108.5
72.5°	3710.3	3847.8	4696.9	13102.1	21015.0	25855.5	25736.5	24698.7	22666.1	18806.1
75°	1564.9	1665.5	2174.1	7363.3	16625.8	23654.7	23332.7	21827.3	20139.2	14808.6
77.5°	496.4	539.4	857.3	2635.6	9157.9	17780.5	17440.1	13631.3	13497.9	7428.9
80°	235.9	274.8	482.0	1058.3	3603.7	9670.7	9623.5	6183.9	5806.5	2005.9
82.5°	102.6	121.0	266.6	566.1	1612.1	3449.9	3519.6	2104.4	1741.3	760.9
85°	32.8	43.1	123.1	260.5	680.9	857.3	847.1	500.5	701.5	414.3
87.5°	0.0	0.0	41.0	59.5	69.7	49.2	55.4	43.1	194.8	114.9
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°
3291.9	0°	3291.9	3291.9	3291.9	3291.9	3291.9	3291.9	3291.9	3291.9	3291.9	3291.9
3333.0	2.5°	3308.3	3275.5	3218.1	3164.8	3117.6	3070.4	3041.7	3000.7	2996.6	2996.6
3386.3	5°	3330.9	3277.6	3175.0	3066.3	2941.2	2822.2	2703.3	2588.4	2551.5	2524.8
3472.4	7.5°	3396.5	3312.4	3150.4	2943.3	2705.3	2444.8	2262.3	2065.4	1989.5	1948.5
3587.3	10°	3490.9	3376.0	3129.9	2766.9	2381.3	2026.4	1766.0	1552.6	1470.6	1435.7
3712.4	12.5°	3595.5	3454.0	3093.0	2547.4	2026.4	1601.9	1347.5	1249.1	1236.8	1236.8
3862.1	15°	3720.6	3548.3	3029.4	2289.0	1655.2	1267.5	1177.3	1181.4	1193.7	1201.9
4007.7	17.5°	3849.8	3648.8	2928.9	1999.8	1327.0	1140.4	1142.4	1148.6	1158.8	1167.0
4165.7	20°	3989.3	3749.3	2795.6	1692.1	1138.3	1103.5	1109.6	1115.8	1124.0	1128.1
4313.4	22.5°	4139.0	3843.7	2637.6	1390.6	1074.7	1072.7	1074.7	1080.9	1091.2	1091.2
4485.6	25°	4299.0	3948.3	2457.2	1171.1	1041.9	1041.9	1046.0	1050.1	1058.3	1058.3
4651.8	27.5°	4463.1	4044.7	2266.4	1056.3	1013.2	1011.2	1011.2	1017.3	1021.4	1023.5
4815.9	30°	4643.6	4157.5	2075.7	1031.7	990.7	980.4	974.2	978.3	982.5	984.5
4988.1	32.5°	4828.2	4266.2	1905.4	1041.9	968.1	949.6	929.1	925.0	925.0	933.2
5166.6	35°	5033.3	4385.1	1774.2	1076.8	955.8	904.5	871.7	853.2	855.3	867.6
5379.9	37.5°	5279.4	4528.7	1677.8	1107.6	947.6	853.2	799.9	777.3	763.0	777.3
5673.2	40°	5601.4	4740.0	1608.0	1132.2	937.3	793.8	722.0	685.0	658.4	666.6
6128.5	42.5°	6075.2	5072.2	1581.4	1134.2	914.8	724.0	642.0	592.8	553.8	555.8
6813.6	45°	6739.7	5597.3	1718.8	1107.6	865.5	648.1	557.9	492.3	467.6	461.5
7837.1	47.5°	7650.4	6362.4	2036.7	1052.2	793.8	574.3	475.8	420.5	402.0	391.8
9180.5	50°	8870.8	7344.8	2389.5	990.7	722.0	504.6	408.2	373.3	361.0	350.7
10774.2	52.5°	10286.0	8341.6	2678.7	929.1	650.2	443.0	365.1	344.6	334.3	326.1
12312.4	55°	11584.3	9028.7	2662.3	863.5	580.4	393.8	334.3	322.0	309.7	301.5
13637.4	57.5°	12392.4	9125.1	2194.6	791.7	500.5	354.8	305.6	297.4	283.0	272.8
14784.0	60°	12763.7	8575.4	1538.3	697.4	420.5	317.9	274.8	270.7	252.3	237.9
15869.0	62.5°	12831.4	7554.0	1025.5	580.4	350.7	283.0	244.1	237.9	213.3	188.7
16750.9	65°	12556.5	6093.7	709.7	453.3	299.5	246.1	209.2	196.9	170.2	145.6
16960.1	67.5°	11686.9	4278.5	494.3	326.1	254.3	194.8	166.1	162.0	141.5	121.0
15893.6	70°	10093.2	2438.7	330.2	244.1	201.0	133.3	131.3	135.4	114.9	98.5
12985.2	72.5°	7738.6	1115.8	205.1	178.4	137.4	90.2	104.6	106.7	88.2	73.8
8101.6	75°	4555.4	477.9	129.2	114.9	69.7	59.5	75.9	77.9	59.5	47.2
2961.7	77.5°	1550.6	180.5	82.0	67.7	34.9	32.8	49.2	49.2	32.8	18.5
594.8	80°	352.8	67.7	41.0	26.7	16.4	14.4	16.4	14.4	8.2	2.1
182.5	82.5°	100.5	26.7	16.4	10.3	6.2	6.2	2.1	0.0	0.0	0.0
63.6	85°	28.7	12.3	4.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0
22.6	87.5°	12.3	2.1	0.0	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>
3291.9
3006.8
2537.1
1954.6
1435.7
1236.8
1201.9
1167.0
1130.1
1095.3
1060.4
1025.5
988.6
939.4
873.7
773.2
662.5
547.6
453.3
385.6
348.7
324.1
297.4
270.7
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137.4
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90.2
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