

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: P952871

Luminaire Tested: **GALN-SB6C-830-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952871
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-SB6C-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 615mA 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: 31433 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

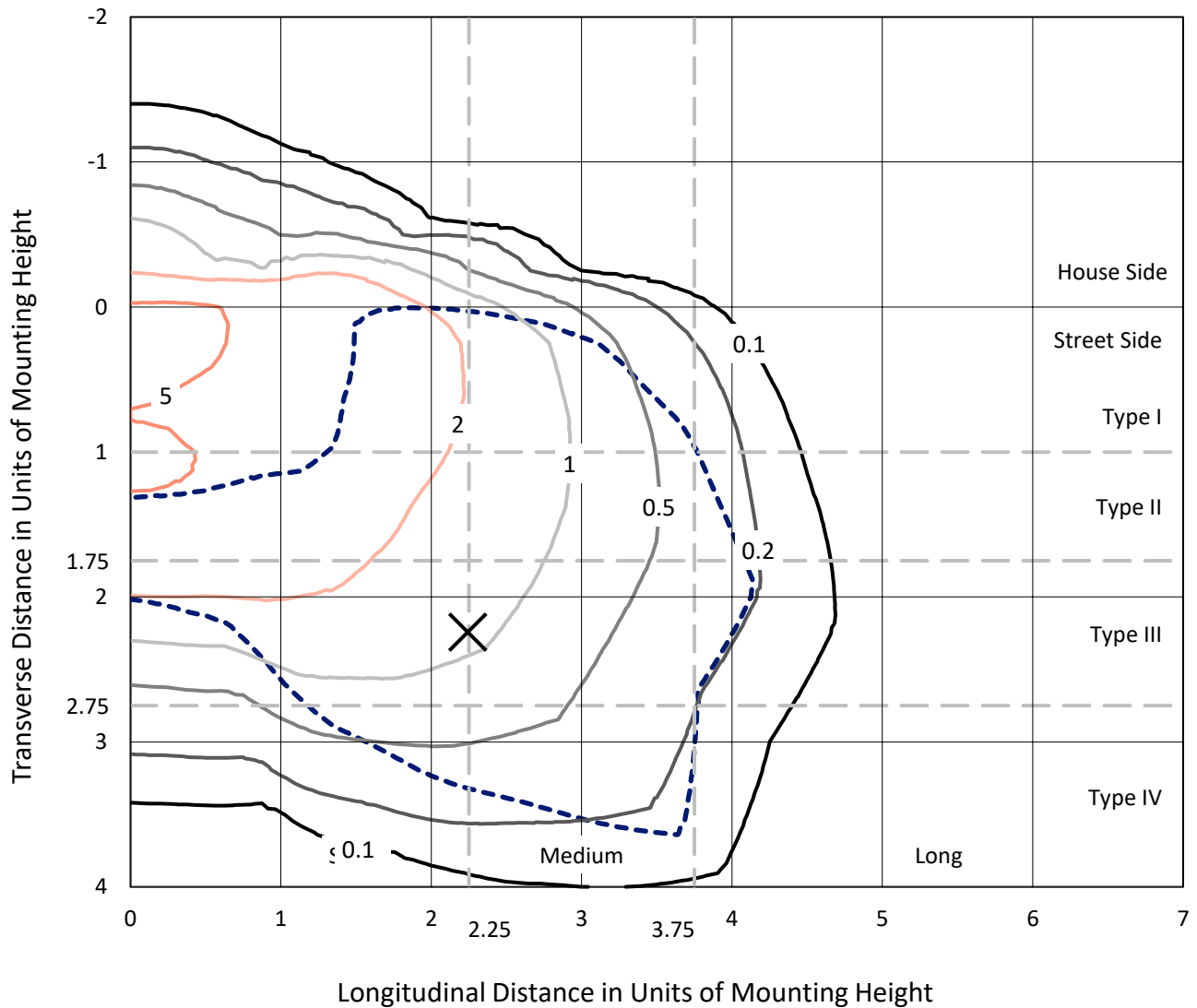
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

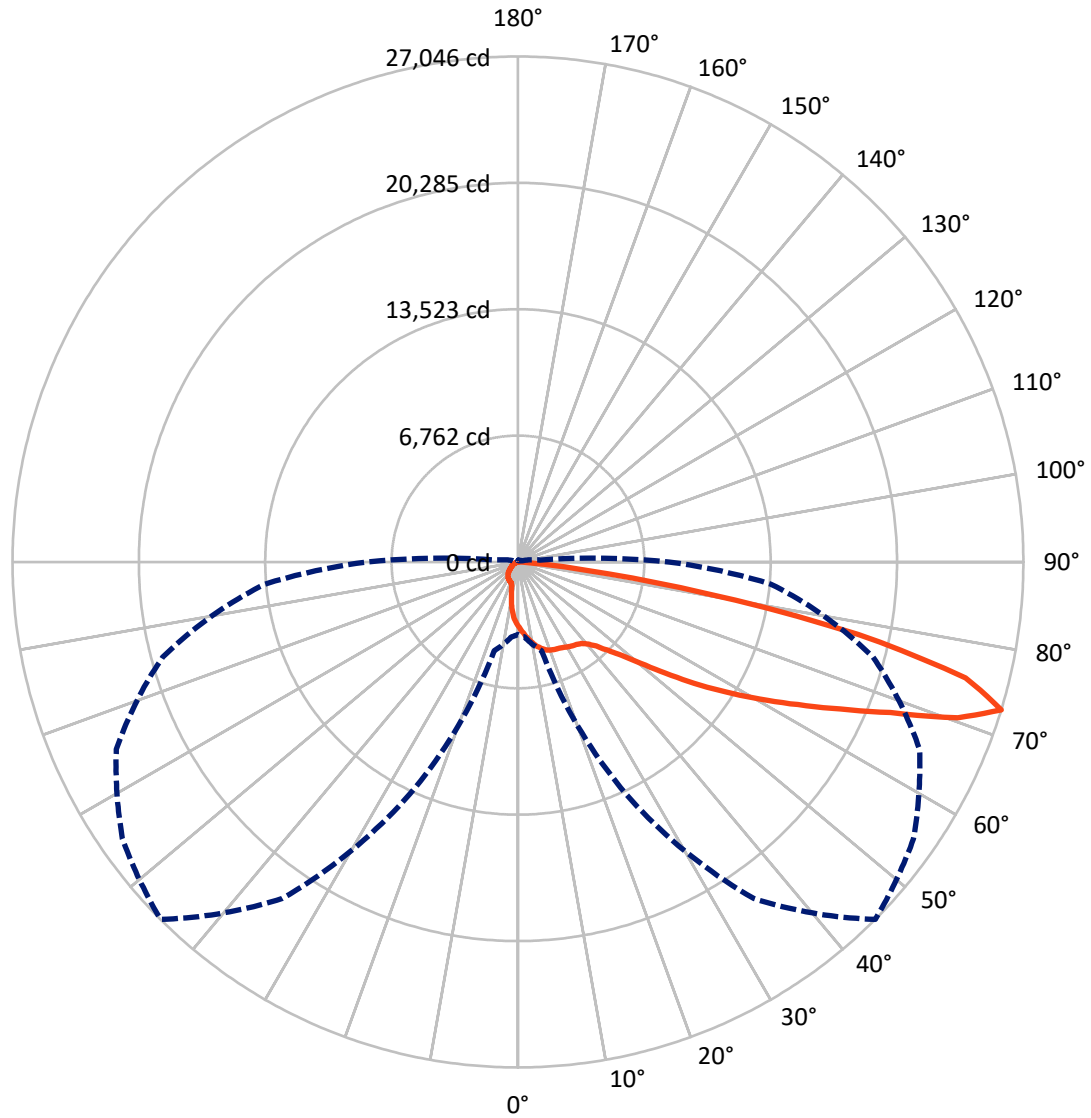
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3302.7	0.0	3302.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	28130.3	0.0	28130.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	31433.0	0.0	31433.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.4	1.0
10°-20°	948.2	3.0
20°-30°	1557.2	5.0
30°-40°	2208.4	7.0
40°-50°	3650.3	11.6
50°-60°	6557.3	20.9
60°-70°	9105.1	29.0
70°-80°	6604.6	21.0
80°-90°	477.5	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°	31433.0	100.0
0°-180°	31433.0	100.0

Coefficient of Utilization



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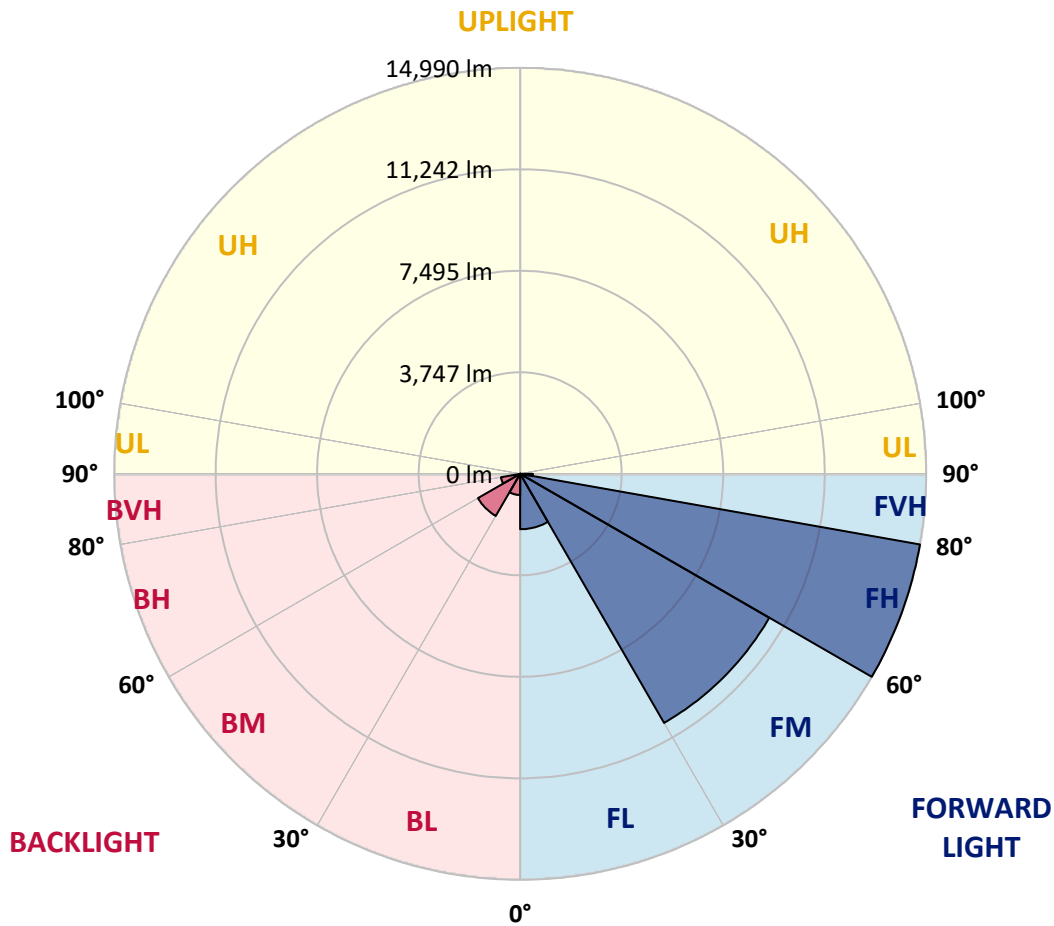
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2047.5	6.5			
FM (30°-60°)	10619.7	33.8			
FH (60°-80°)	14989.5	47.7			G5
FVH (80°-90°)	473.5	1.5			G3/500
BL (0°-30°)	782.3	2.5	B2/1000		
BM (30°-60°)	1796.2	5.7	B2/2500		
BH (60°-80°)	720.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.0	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°	3443.6	3443.6	3443.6	3443.6	3443.6	3443.6	3443.6	3443.6	3443.6	3443.6
2.5°	3761.1	3767.5	3763.2	3737.5	3694.6	3671.0	3658.1	3615.2	3587.3	3538.0
5°	4106.5	4132.3	4117.2	4065.8	3984.2	3926.3	3909.1	3821.2	3741.8	3649.5
7.5°	4473.4	4486.3	4458.4	4391.9	4282.4	4183.8	4168.7	4046.4	3919.9	3778.3
10°	4790.9	4806.0	4763.0	4666.5	4542.1	4419.8	4398.3	4263.1	4113.0	3939.2
12.5°	5057.0	5072.0	5016.2	4900.4	4763.0	4636.5	4615.0	4473.4	4308.2	4115.1
15°	5258.7	5286.5	5211.5	5087.0	4939.0	4812.4	4801.7	4662.2	4501.3	4286.7
17.5°	5376.7	5404.6	5333.8	5183.6	5057.0	4949.7	4936.8	4821.0	4670.8	4464.8
20°	5396.0	5421.7	5346.6	5215.7	5110.6	5024.8	5018.4	4934.7	4825.3	4627.9
22.5°	5338.0	5370.2	5301.6	5196.4	5123.5	5078.4	5069.9	5022.7	4960.4	4793.1
25°	5278.0	5303.7	5252.2	5160.0	5121.3	5117.1	5123.5	5114.9	5102.0	4960.4
27.5°	5273.7	5301.6	5243.6	5155.7	5134.2	5179.3	5185.7	5226.5	5237.2	5112.8
30°	5310.2	5329.5	5273.7	5181.4	5170.7	5273.7	5275.8	5348.8	5365.9	5241.5
32.5°	5389.5	5411.0	5355.2	5220.0	5205.0	5348.8	5355.2	5451.8	5479.6	5378.8
35°	5576.2	5601.9	5537.6	5327.3	5273.7	5419.6	5438.9	5552.6	5608.4	5524.7
37.5°	6041.8	5966.7	5878.7	5544.0	5430.3	5531.1	5563.3	5696.3	5795.0	5698.5
40°	7198.2	6962.2	6687.6	5913.0	5704.9	5769.3	5795.0	5928.1	6063.2	5968.8
42.5°	8933.9	8655.0	8213.0	6762.7	6119.0	6151.2	6170.5	6286.4	6477.3	6402.2
45°	10480.8	10380.0	9929.4	8213.0	6893.5	6734.8	6758.4	6818.4	7099.5	7071.6
47.5°	11669.5	11611.5	11264.0	9878.0	8202.3	7449.2	7515.7	7543.6	7949.1	8047.8
50°	12583.4	12562.0	12250.9	11358.4	9912.3	8502.7	8526.3	8466.2	9073.4	9318.0
52.5°	13445.9	13518.9	13289.3	12733.6	11738.1	9882.2	9878.0	9594.7	10414.3	10783.4
55°	14224.8	14250.5	14274.1	14136.8	13574.7	11452.8	11412.0	10948.6	11969.8	12351.7
57.5°	14956.4	14967.1	15177.4	15458.4	15486.3	13139.1	13064.0	12508.4	13669.1	13941.6
60°	15447.7	15497.1	15941.2	16722.1	17063.3	14879.1	14838.4	14272.0	15398.4	15524.9
62.5°	14739.7	15040.1	16160.0	17709.1	18552.3	16808.0	16788.7	16256.6	17217.8	17114.8
65°	11931.2	12439.7	14409.3	18376.3	20013.4	18962.1	18990.0	18423.5	19086.5	18751.8
67.5°	8346.1	8882.4	11212.5	18430.0	21646.1	21491.6	21652.5	20764.3	21071.1	20320.2
70°	5771.4	6048.2	7565.1	17275.7	22918.4	24975.9	24971.7	23639.3	23045.0	21034.6
72.5°	3881.2	4025.0	4913.2	13705.6	21982.9	27046.4	26921.9	25836.3	23710.1	19672.2
75°	1637.0	1742.2	2274.2	7702.4	17391.5	24744.2	24407.4	22832.6	21066.8	15490.6
77.5°	519.2	564.3	896.8	2757.0	9579.7	18599.5	18243.3	14259.1	14119.6	7771.1
80°	246.7	287.5	504.2	1107.1	3769.7	10116.1	10066.8	6468.7	6074.0	2098.3
82.5°	107.3	126.6	278.9	592.2	1686.4	3608.8	3681.7	2201.3	1821.5	796.0
85°	34.3	45.1	128.7	272.5	712.3	896.8	886.1	523.5	733.8	433.4
87.5°	0.0	0.0	42.9	62.2	72.9	51.5	57.9	45.1	203.8	120.1
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°
3443.6	0°	3443.6	3443.6	3443.6	3443.6	3443.6	3443.6	3443.6	3443.6	3443.6	3443.6
3486.5	2.5°	3460.7	3426.4	3366.3	3310.5	3261.2	3211.8	3181.8	3138.9	3134.6	3134.6
3542.2	5°	3484.3	3428.5	3321.3	3207.5	3076.7	2952.2	2827.8	2707.6	2669.0	2641.1
3632.4	7.5°	3553.0	3465.0	3295.5	3078.8	2829.9	2557.5	2366.5	2160.5	2081.1	2038.2
3752.5	10°	3651.7	3531.5	3274.1	2894.3	2490.9	2119.8	1847.3	1624.2	1538.3	1501.9
3883.4	12.5°	3761.1	3613.0	3235.4	2664.7	2119.8	1675.6	1409.6	1306.6	1293.7	1293.7
4040.0	15°	3892.0	3711.7	3168.9	2394.4	1731.4	1325.9	1231.5	1235.8	1248.7	1257.3
4192.3	17.5°	4027.1	3816.9	3063.8	2091.9	1388.1	1192.9	1195.1	1201.5	1212.2	1220.8
4357.5	20°	4173.0	3922.0	2924.3	1770.1	1190.8	1154.3	1160.7	1167.2	1175.7	1180.0
4512.0	22.5°	4329.6	4020.7	2759.1	1454.7	1124.3	1122.1	1124.3	1130.7	1141.4	1141.4
4692.2	25°	4497.0	4130.1	2570.3	1225.1	1089.9	1089.9	1094.2	1098.5	1107.1	1107.1
4866.0	27.5°	4668.6	4231.0	2370.8	1104.9	1059.9	1057.7	1057.7	1064.2	1068.5	1070.6
5037.7	30°	4857.4	4349.0	2171.3	1079.2	1036.3	1025.6	1019.1	1023.4	1027.7	1029.8
5217.9	32.5°	5050.5	4462.7	1993.2	1089.9	1012.7	993.4	971.9	967.6	967.6	976.2
5404.6	35°	5265.1	4587.1	1855.9	1126.4	999.8	946.2	911.8	892.5	894.7	907.6
5627.7	37.5°	5522.6	4737.3	1755.0	1158.6	991.2	892.5	836.8	813.2	798.1	813.2
5934.5	40°	5859.4	4958.3	1682.1	1184.3	980.5	830.3	755.2	716.6	688.7	697.3
6410.8	42.5°	6355.0	5305.9	1654.2	1186.5	956.9	757.4	671.5	620.1	579.3	581.4
7127.4	45°	7050.2	5855.1	1797.9	1158.6	905.4	678.0	583.6	514.9	489.2	482.7
8198.0	47.5°	8002.8	6655.4	2130.5	1100.6	830.3	600.7	497.8	439.8	420.5	409.8
9603.3	50°	9279.4	7683.1	2499.5	1036.3	755.2	527.8	427.0	390.5	377.6	366.9
11270.4	52.5°	10759.8	8725.8	2802.0	971.9	680.1	463.4	381.9	360.4	349.7	341.1
12879.5	55°	12117.9	9444.6	2784.9	903.3	607.2	411.9	349.7	336.8	324.0	315.4
14265.5	57.5°	12963.2	9545.4	2295.7	828.2	523.5	371.2	319.7	311.1	296.1	285.4
15464.9	60°	13351.5	8970.4	1609.1	729.5	439.8	332.6	287.5	283.2	263.9	248.9
16599.9	62.5°	13422.3	7901.9	1072.8	607.2	366.9	296.1	255.3	248.9	223.1	197.4
17522.4	65°	13134.8	6374.3	742.3	474.2	313.2	257.5	218.8	206.0	178.1	152.3
17741.3	67.5°	12225.1	4475.5	517.1	341.1	266.0	203.8	173.8	169.5	148.0	126.6
16625.6	70°	10558.1	2551.0	345.4	255.3	210.3	139.5	137.3	141.6	120.1	103.0
13583.3	72.5°	8095.0	1167.2	214.6	186.7	143.7	94.4	109.4	111.6	92.3	77.2
8474.8	75°	4765.2	499.9	135.2	120.1	72.9	62.2	79.4	81.5	62.2	49.3
3098.1	77.5°	1622.0	188.8	85.8	70.8	36.5	34.3	51.5	51.5	34.3	19.3
622.2	80°	369.0	70.8	42.9	27.9	17.2	15.0	17.2	15.0	8.6	2.1
191.0	82.5°	105.1	27.9	17.2	10.7	6.4	6.4	2.1	0.0	0.0	0.0
66.5	85°	30.0	12.9	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0
23.6	87.5°	12.9	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>
3443.6
3145.3
2654.0
2044.7
1501.9
1293.7
1257.3
1220.8
1182.2
1145.7
1109.2
1072.8
1034.1
982.6
914.0
808.9
693.0
572.9
474.2
403.4
364.7
339.0
311.1
283.2
244.6
184.5
143.7
120.1
94.4
68.7
42.9
15.0
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