

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: P957394

Luminaire Tested: **GALN-SB9D-735-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957394
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-735-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 92126 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B5 - U0 - G5

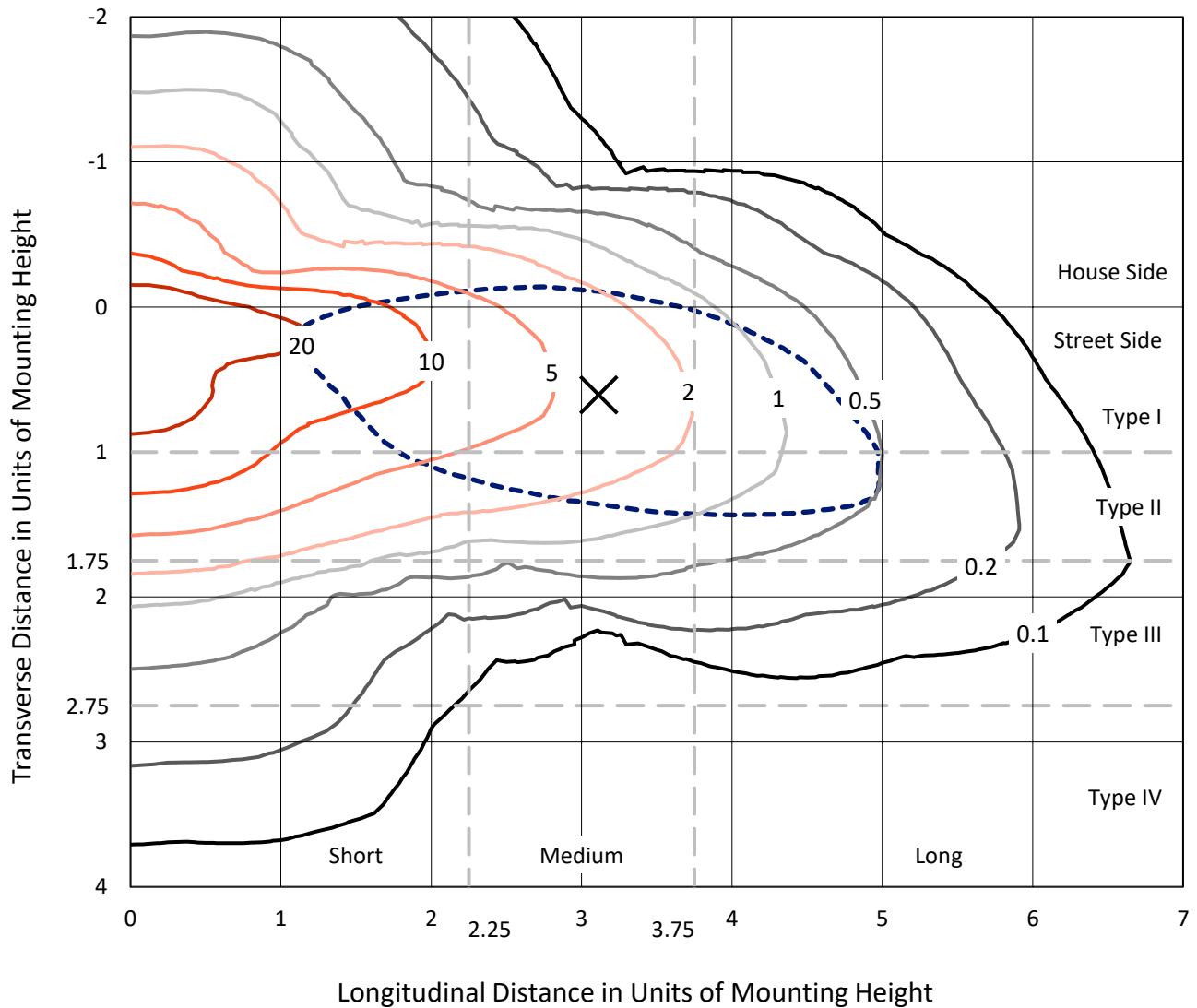
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

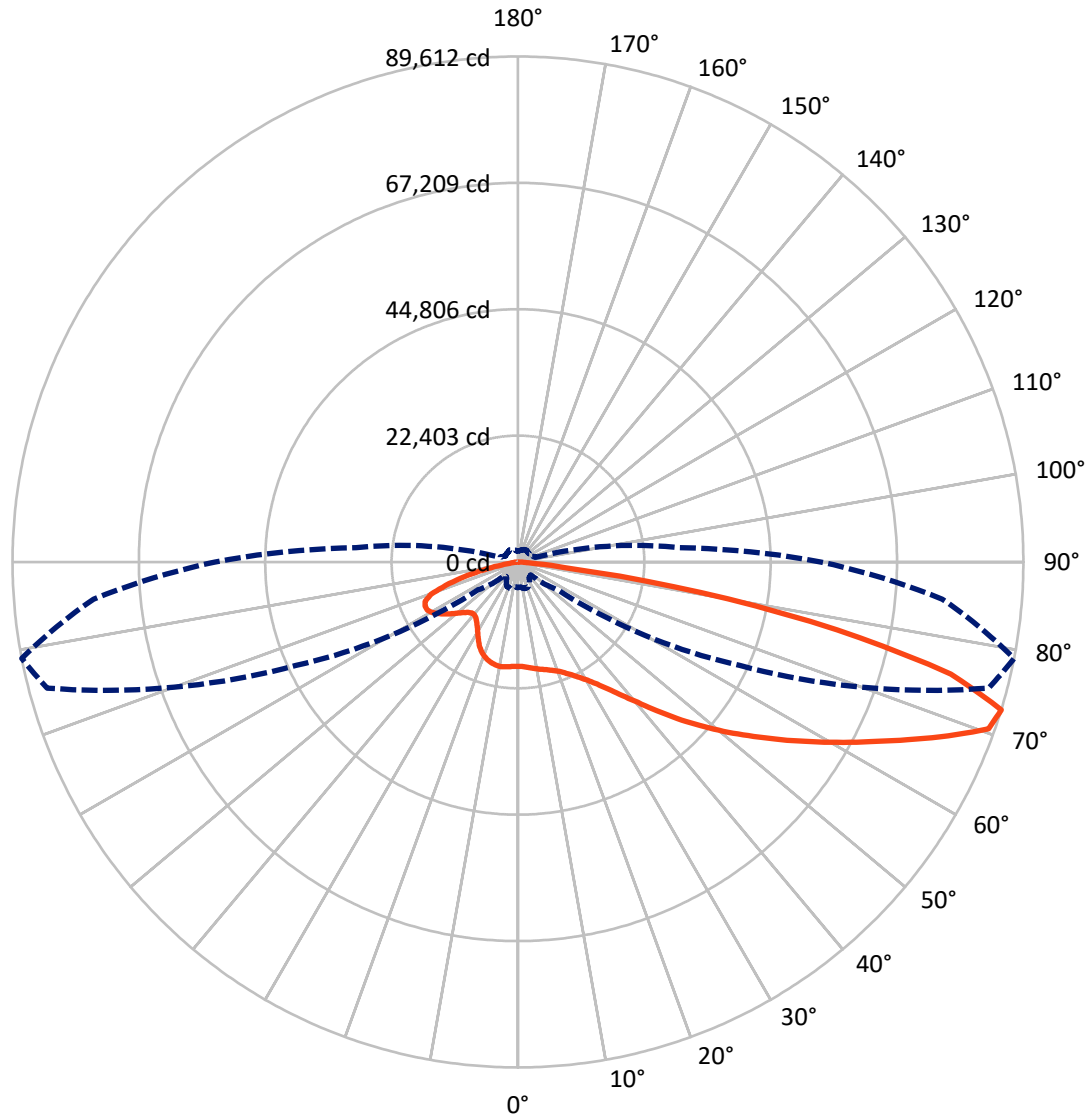
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20272.8	0.0	20272.8
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	71853.2	0.0	71853.2
	% Fixture	78.0	0.0	78.0
Total	Lumens	92126.0	0.0	92126.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1678.7	1.8
10°-20°	4388.9	4.8
20°-30°	7081.8	7.7
30°-40°	10628.9	11.5
40°-50°	15077.6	16.4
50°-60°	19041.0	20.7
60°-70°	19338.8	21.0
70°-80°	13180.2	14.3
80°-90°	1710.0	1.9
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°	92126.0	100.0
0°-180°	92126.0	100.0

Coefficient of Utilization



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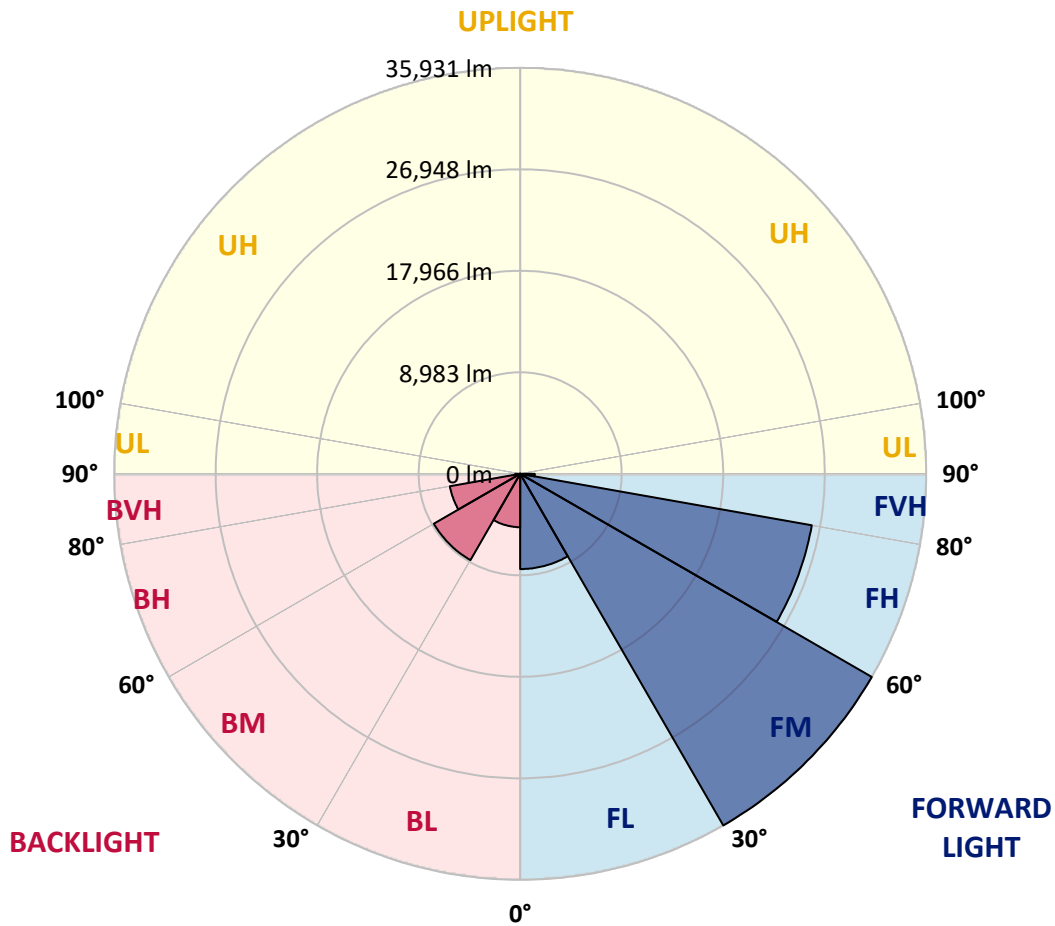
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8427.3	9.1			
FM (30°-60°)	35931.0	39.0			
FH (60°-80°)	26206.7	28.4			G5
FVH (80°-90°)	1288.2	1.4			G5
BL (0°-30°)	4722.1	5.1	B4/5000		
BM (30°-60°)	8816.5	9.6	B5		
BH (60°-80°)	6312.3	6.9	B5		G5
BVH (80°-90°)	421.9	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	18493.4	18493.4	18493.4	18493.4	18493.4	18493.4	18493.4	18493.4	18493.4	18493.4
2.5°	18503.2	18415.4	18469.1	18449.6	18473.9	18503.2	18512.9	18527.5	18576.3	18571.4
5°	18464.2	18376.5	18449.6	18425.2	18488.5	18556.8	18615.2	18668.9	18746.8	18780.9
7.5°	18381.3	18322.9	18396.0	18469.1	18586.0	18688.3	18771.2	18893.0	19005.1	19024.6
10°	17898.9	17855.0	18025.6	18215.7	18537.3	18815.0	18995.3	19136.7	19258.5	19278.0
12.5°	17397.0	17343.4	17533.4	17791.7	18313.1	18815.0	19195.1	19380.3	19487.5	19550.9
15°	17314.1	17270.3	17377.5	17601.6	18035.3	18683.5	19331.6	19672.7	19765.3	19838.4
17.5°	17713.7	17630.9	17674.7	17752.7	18006.1	18561.6	19438.8	20004.1	20145.4	20223.4
20°	18639.6	18522.7	18454.4	18298.5	18254.6	18581.1	19429.1	20403.7	20588.9	20686.3
22.5°	19872.5	19794.5	19648.3	19253.6	18824.8	18819.9	19614.2	20915.3	21261.3	21353.9
25°	21363.7	21246.7	21061.5	20525.5	19701.9	19292.6	19926.1	21568.3	22148.2	22172.6
27.5°	23079.0	22903.6	22650.2	21943.6	20832.5	20033.3	20403.7	22318.8	23166.7	23157.0
30°	24886.9	24711.5	24443.5	23585.8	22187.2	21032.3	21066.4	23127.7	24375.3	24321.6
32.5°	26207.5	26076.0	26022.4	25359.6	23746.6	22211.6	21826.6	24024.4	25866.4	25817.7
35°	27221.1	27050.6	27113.9	26777.7	25447.3	23532.2	22757.4	25091.6	27679.2	27674.3
37.5°	28225.0	28073.9	28127.5	27903.4	27021.3	25208.6	23892.8	26397.6	29925.7	30032.9
40°	29141.1	28980.3	29194.7	28985.2	28244.5	26992.1	25184.2	27874.1	32527.9	32732.6
42.5°	29691.8	29565.1	29920.8	29925.7	29306.8	28497.9	26602.3	29501.8	35539.5	35997.6
45°	29881.9	29838.0	30374.0	30486.1	30247.3	29370.2	27879.0	31275.6	38785.0	39603.7
47.5°	29677.2	29594.3	30335.1	30749.3	30939.3	29779.5	28936.5	33195.6	42098.7	43297.5
50°	28644.1	28483.3	29584.6	30456.9	31134.2	30047.5	30003.7	35412.8	45865.6	47176.5
52.5°	26787.4	26665.6	27918.0	29433.5	30705.4	30179.1	31202.5	37834.8	49442.5	51138.3
55°	24414.2	24253.4	25632.5	27611.0	29638.2	30135.3	32401.2	40544.2	53662.6	55382.8
57.5°	20652.2	20330.6	22075.1	24414.2	27898.5	30081.7	33648.8	43239.0	57950.9	60012.2
60°	15165.1	14687.5	16826.8	19599.6	24497.1	29560.2	35193.5	46260.3	63096.9	64953.6
62.5°	8830.1	8552.3	9950.9	12538.5	18464.2	26490.2	36060.9	49773.9	68155.2	70104.4
65°	6856.5	6778.5	6900.3	7100.1	10277.4	19833.5	33385.6	53199.6	74587.7	75952.2
67.5°	6271.7	6213.2	6266.8	5891.6	5214.2	11047.3	26412.2	54067.1	81478.2	82306.7
70°	5574.8	5506.6	5682.0	5360.4	4103.2	5024.2	17065.6	50919.0	86960.5	88515.0
72.5°	4541.7	4463.8	4873.1	4726.9	3455.0	3226.0	8571.8	43438.8	86385.5	89611.5
75°	3489.1	3445.3	3932.6	4054.4	2816.7	2538.9	4112.9	32289.2	76020.4	79270.7
77.5°	2709.4	2675.3	2923.9	3367.3	2270.9	1968.7	2529.1	20481.6	57288.2	57858.3
80°	2032.1	1934.6	2163.7	2607.1	1768.9	1437.6	1715.3	11944.0	36212.0	32825.2
82.5°	1271.9	1223.1	1413.2	1739.7	1247.5	989.2	1115.9	6598.2	14512.1	8547.4
85°	726.1	706.6	769.9	994.1	677.4	570.2	638.4	2914.1	2651.0	1822.5
87.5°	292.4	282.6	350.9	443.5	248.5	209.5	224.2	701.7	584.8	540.9
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°
18493.4	0°	18493.4	18493.4	18493.4	18493.4	18493.4	18493.4	18493.4	18493.4	18493.4	18493.4
18566.5	2.5°	18547.0	18547.0	18478.8	18371.6	18249.8	18171.8	18045.1	18011.0	17879.4	17840.4
18732.2	5°	18771.2	18732.2	18522.7	18220.5	17806.3	17426.2	17007.1	16744.0	16373.6	16242.0
19058.7	7.5°	19053.8	18946.6	18586.0	17923.3	17055.9	16203.1	15316.2	14643.7	14000.4	13771.4
19326.7	10°	19312.1	19161.0	18547.0	17387.2	15886.3	14409.8	12996.6	12007.3	11256.9	10949.9
19624.0	12.5°	19570.4	19292.6	18288.7	16495.4	14224.6	12221.7	10715.9	9946.0	9483.1	9112.7
19867.6	15°	19814.0	19424.2	17889.2	15301.5	12402.0	10370.0	9258.9	8644.9	8274.5	8030.9
20223.4	17.5°	20096.7	19536.3	17289.8	13786.0	10667.2	9088.3	8181.9	7811.6	7738.5	7709.2
20710.7	20°	20491.4	19638.6	16500.3	12090.2	9390.5	8065.0	7597.2	7563.1	7558.2	7543.6
21295.5	22.5°	20915.3	19760.4	15457.5	10550.3	8303.8	7426.6	7343.8	7275.5	7231.7	7226.8
22002.1	25°	21417.3	19799.4	14151.5	9288.1	7377.9	7124.5	7027.0	6924.7	6895.4	6895.4
22806.1	27.5°	21904.6	19667.8	12631.1	8191.7	6856.5	6846.7	6720.0	6685.9	6681.0	6695.6
23722.3	30°	22391.9	19419.3	11120.4	7178.1	6554.3	6554.3	6510.5	6534.8	6554.3	6603.1
24979.5	32.5°	23049.8	19156.2	9858.3	6427.6	6291.2	6242.4	6286.3	6335.0	6354.5	6417.9
26631.5	35°	24014.6	18971.0	8854.4	6018.3	6018.3	5954.9	5979.3	5969.5	5925.7	5896.5
28629.5	37.5°	25291.4	18961.2	8026.0	5828.2	5789.2	5779.5	5784.4	5721.0	5550.5	5345.8
31046.5	40°	26826.4	19224.4	7387.6	5696.7	5667.4	5725.9	5696.7	5526.1	5058.3	4702.5
34019.1	42.5°	28887.7	19974.8	6978.3	5535.8	5623.6	5696.7	5579.7	4990.1	4673.3	4434.5
37405.9	45°	31314.5	21193.1	6768.7	5365.3	5540.7	5628.4	5063.2	4804.9	4551.5	4264.0
41099.7	47.5°	34063.0	22728.1	6720.0	5204.5	5355.5	5409.1	4843.9	4726.9	4439.4	4127.5
44813.0	50°	37055.1	24545.8	6851.6	5014.4	5087.5	4902.3	4770.8	4663.6	4366.3	4059.3
48618.9	52.5°	40149.5	26548.7	7114.7	4756.1	4819.5	4614.8	4741.5	4648.9	4322.4	3908.2
52551.5	55°	43190.3	28566.1	7368.1	4454.0	4546.6	4356.6	4658.7	4590.5	4122.6	3654.8
56747.3	57.5°	46279.8	30573.8	7616.7	4186.0	4283.5	4108.0	4527.1	4434.5	3898.5	3420.9
61328.0	60°	49491.2	32523.1	7733.6	3927.7	3995.9	3879.0	4327.3	4166.5	3645.1	3182.1
65830.7	62.5°	52497.9	34145.8	7543.6	3669.4	3713.3	3664.6	4064.2	3849.7	3391.7	2914.1
70523.5	65°	55514.4	35110.7	6958.8	3416.0	3425.8	3401.4	3693.8	3508.6	3094.4	2680.2
74631.5	67.5°	58248.2	35651.6	6028.0	3143.2	3118.8	3109.0	3347.8	3138.3	2806.9	2446.3
77755.2	70°	58828.1	34277.4	4605.1	2821.5	2821.5	2797.2	2967.7	2753.3	2490.2	2197.8
75518.4	72.5°	53730.8	28834.1	3269.9	2456.0	2495.0	2446.3	2587.6	2407.3	2168.5	1973.6
65085.1	75°	43326.7	21144.4	2378.1	2080.8	2149.0	2066.2	2197.8	2071.1	1866.4	1861.5
44852.0	77.5°	29769.8	13074.5	1725.1	1715.3	1764.1	1656.9	1807.9	1739.7	1554.5	1471.7
19521.6	80°	12704.2	5214.2	1257.3	1325.5	1325.5	1228.0	1403.5	1422.9	1262.1	1223.1
3766.9	82.5°	2529.1	1481.4	882.0	911.3	857.7	828.4	994.1	1101.3	1520.4	1691.0
1135.4	85°	760.2	545.8	531.2	497.1	438.6	443.5	584.8	1106.2	1364.5	779.7
375.2	87.5°	209.5	136.4	141.3	112.1	92.6	121.8	199.8	838.2	458.1	194.9
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>
18493.4
17903.8
16339.5
13800.6
11018.1
9234.5
8074.7
7728.7
7592.3
7280.4
6924.7
6734.6
6637.2
6471.5
5964.7
5350.7
4692.8
4424.8
4244.5
4103.2
4025.2
3879.0
3630.5
3411.2
3167.5
2909.2
2651.0
2417.1
2188.0
<i>1915.1</i>
1676.3
1379.1
1223.1
1695.8
672.5
165.7
0.0

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