

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: P957109

Luminaire Tested: **GALN-SB9C-760-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957109
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-SB9C-760-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 5700K, 615mA 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: 55154 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

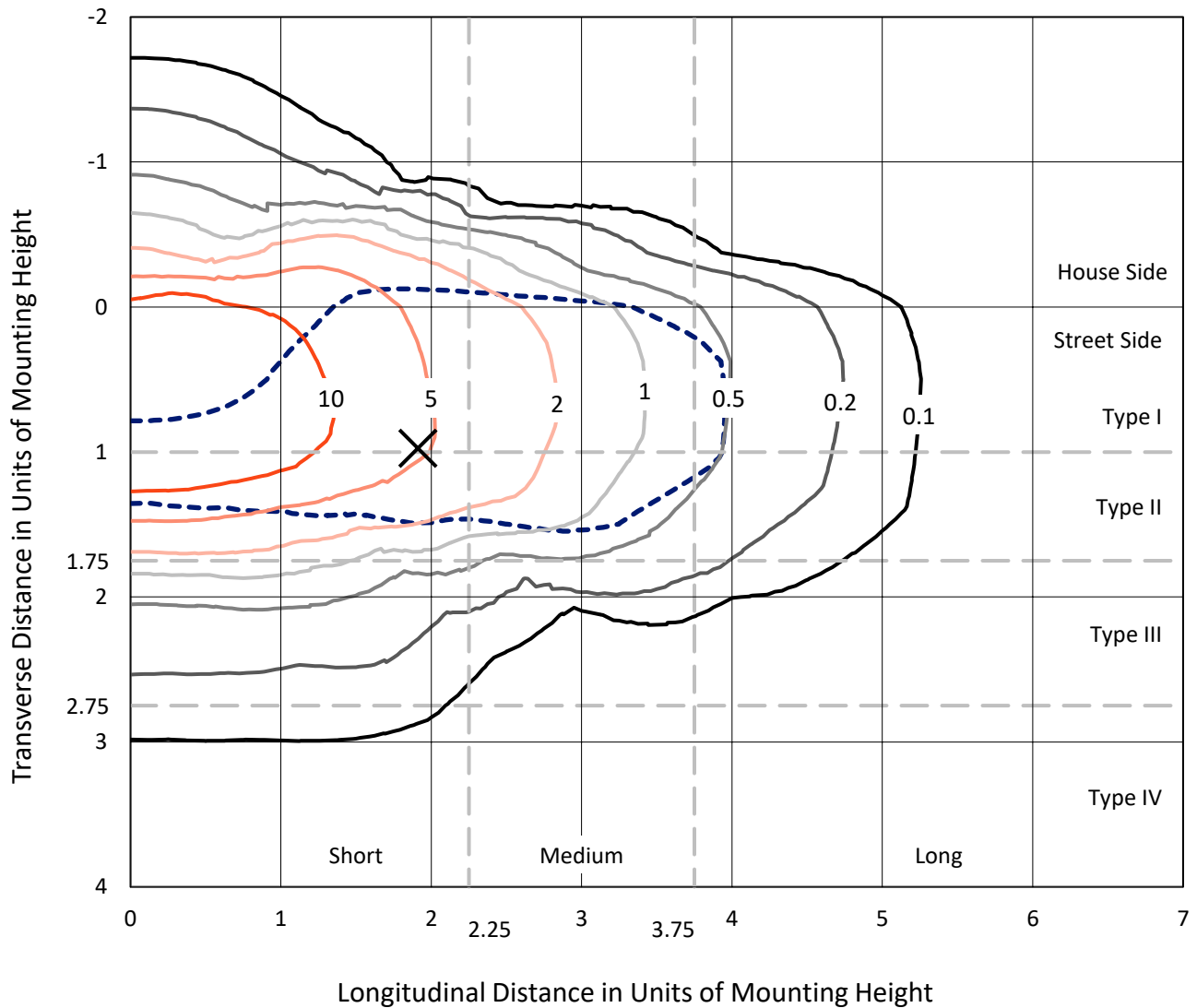
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

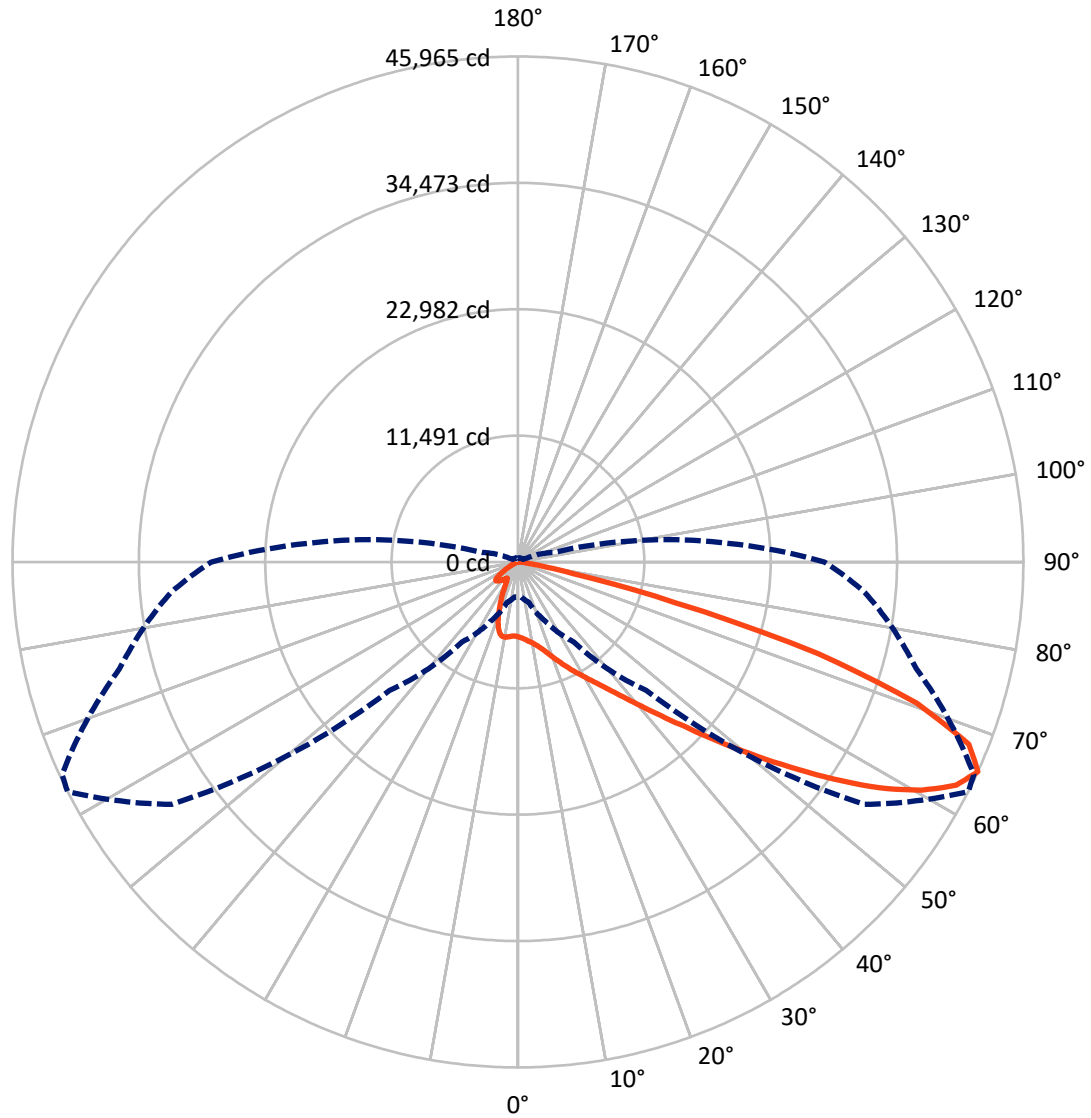
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 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
House Side	Lumens	8107.2	0.0	8107.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	47046.8	0.0	47046.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	55154.0	0.0	55154.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	641.4	1.2
10°-20°	1779.5	3.2
20°-30°	3098.6	5.6
30°-40°	5584.9	10.1
40°-50°	11076.6	20.1
50°-60°	15088.2	27.4
60°-70°	12043.3	21.8
70°-80°	5449.9	9.9
80°-90°	391.7	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°	55154.0	100.0
0°-180°	55154.0	100.0

Coefficient of Utilization



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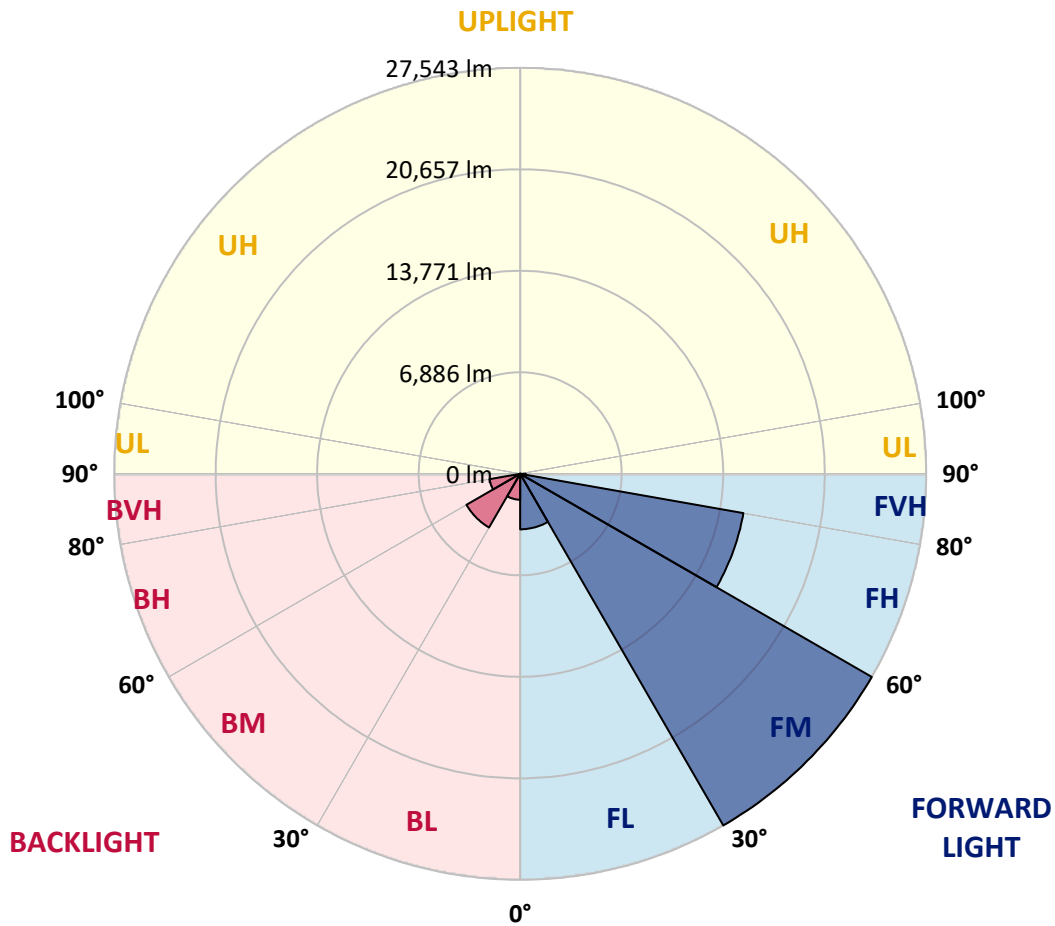
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3764.9	6.8			
FM (30°-60°)	27542.5	49.9			
FH (60°-80°)	15376.7	27.9			G5
FVH (80°-90°)	362.7	0.7			G3/500
BL (0°-30°)	1754.5	3.2	B3/2500		
BM (30°-60°)	4207.1	7.6	B3/5000		
BH (60°-80°)	2116.5	3.8	B3/2500		G3/2500
BVH (80°-90°)	29.1	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-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	6807.0	6807.0	6807.0	6807.0	6807.0	6807.0	6807.0	6807.0	6807.0	6807.0
2.5°	6966.4	6947.4	6974.0	6962.6	6955.0	6939.8	6932.3	6924.7	6909.5	6898.1
5°	6985.4	6974.0	7000.6	7023.3	7046.1	7068.9	7080.2	7095.4	7080.2	7049.9
7.5°	6826.0	6818.4	6875.3	6943.6	7046.1	7133.4	7228.2	7281.3	7285.1	7273.7
10°	6814.6	6795.7	6852.6	6936.1	7068.9	7224.4	7391.4	7505.2	7520.4	7569.7
12.5°	6993.0	6974.0	7053.7	7144.7	7281.3	7444.5	7649.4	7808.8	7831.5	7899.8
15°	7292.7	7266.2	7357.2	7474.8	7649.4	7835.3	8051.6	8195.8	8214.7	8298.2
17.5°	7641.8	7615.2	7721.5	7846.7	8036.4	8290.6	8541.1	8700.4	8723.2	8776.3
20°	8089.5	8055.4	8138.9	8252.7	8453.8	8757.3	9057.1	9284.7	9281.0	9281.0
22.5°	8609.4	8556.2	8628.3	8719.4	8909.1	9277.2	9675.6	9945.0	9945.0	9838.7
25°	9167.1	9114.0	9193.7	9277.2	9444.1	9861.5	10328.2	10662.1	10677.3	10495.1
27.5°	9865.3	9797.0	9857.7	9956.3	10055.0	10480.0	11033.9	11421.0	11428.6	11147.8
30°	11208.5	11015.0	10825.3	10719.0	10764.5	11185.7	11777.6	12206.4	12244.3	11857.3
32.5°	13667.2	13629.3	12961.5	12088.8	11633.4	11944.6	12608.6	13124.6	13147.4	12650.3
35°	17488.1	17442.6	16368.8	14706.9	13223.3	12961.5	13617.9	14228.8	14213.6	13652.0
37.5°	22048.9	22007.2	20591.9	18368.4	15966.6	14498.2	14919.3	15560.6	15655.4	14919.3
40°	25945.7	25790.1	24894.7	22750.9	19609.1	17048.0	16771.0	17195.9	17294.6	16421.9
42.5°	28897.7	28764.9	28309.6	26970.2	24018.2	20819.5	18952.7	19115.9	19225.9	18178.7
45°	30426.8	30396.5	30578.6	30453.4	28510.7	25448.6	22071.7	21392.5	21434.2	20125.2
47.5°	30643.1	30627.9	31458.9	32635.1	32373.3	30669.6	26074.7	24230.7	24082.7	22322.1
50°	29368.2	29337.8	30931.5	33136.0	34953.5	35055.9	30620.3	27429.3	27103.0	24594.9
52.5°	25296.9	25289.3	27907.4	31576.5	35860.3	38895.8	35112.8	30942.8	30396.5	27000.5
55°	19465.0	19605.4	22606.7	26943.6	34206.0	40743.6	39146.2	34843.4	34004.9	29421.3
57.5°	13788.6	13993.5	16960.7	20823.3	29076.0	39650.9	41874.3	38751.6	37848.5	31834.5
60°	7406.6	7588.7	10559.6	15169.8	21631.5	35575.7	43312.4	42143.7	41290.0	34126.3
62.5°	4412.8	4473.5	5702.9	9793.2	14631.0	27178.9	42701.5	44727.7	44025.7	36050.0
65°	3168.3	3179.7	3798.1	5979.9	8882.5	16513.0	38417.7	45964.6	45748.4	37499.5
67.5°	2667.4	2659.8	2917.8	3972.7	6052.0	8271.7	29444.1	44215.4	45133.7	38417.7
70°	2288.0	2299.4	2602.9	2910.3	4549.4	4682.2	14638.6	38497.4	40455.3	38660.5
72.5°	1703.7	1741.6	2022.4	2652.2	3433.9	3221.4	5054.1	28544.8	32084.9	36425.7
75°	1202.8	1221.8	1422.9	2231.1	2561.2	2344.9	2580.2	14756.2	19294.2	27926.3
77.5°	925.8	960.0	1077.6	1559.5	2523.2	1646.7	1578.4	5107.2	7846.7	16869.6
80°	500.9	561.6	777.8	1126.9	1772.0	1164.9	781.6	2033.8	2659.8	7888.4
82.5°	258.0	288.4	542.6	812.0	1009.3	1016.9	387.0	846.1	1096.6	2436.0
85°	102.4	125.2	364.3	447.7	519.8	500.9	174.5	341.5	394.6	675.4
87.5°	22.8	37.9	132.8	102.4	98.7	106.2	41.7	79.7	75.9	79.7
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°
6807.0	0°	6807.0	6807.0	6807.0	6807.0	6807.0	6807.0	6807.0	6807.0	6807.0	6807.0
6852.6	2.5°	6848.8	6833.6	6791.9	6746.3	6693.2	6662.9	6643.9	6640.1	6613.5	6594.6
7004.4	5°	6962.6	6947.4	6867.8	6772.9	6670.4	6590.8	6514.9	6446.6	6347.9	6329.0
7224.4	7.5°	7190.3	7148.5	7019.5	6890.5	6697.0	6465.6	6184.8	5862.3	5573.9	5486.6
7516.6	10°	7471.1	7414.1	7251.0	7023.3	6594.6	5964.7	5285.5	4655.7	4154.8	4014.4
7861.9	12.5°	7789.8	7740.5	7524.2	7103.0	6165.8	5023.7	3984.1	3202.4	2716.7	2595.3
8229.9	15°	8169.2	8097.1	7797.4	6981.6	5399.3	3817.1	2735.7	2272.8	2098.3	2075.5
8651.1	17.5°	8571.4	8453.8	8040.2	6545.2	4367.3	2713.0	2113.4	1980.6	1904.8	1882.0
9076.1	20°	8939.5	8787.7	8184.4	5885.0	3263.1	2113.4	1893.4	1806.1	1737.8	1711.2
9501.0	22.5°	9307.5	9091.2	8184.4	4985.8	2447.3	1874.4	1737.8	1658.1	1578.4	1544.3
9956.3	25°	9690.7	9402.4	8040.2	3984.1	1969.3	1718.8	1589.8	1502.6	1434.3	1392.5
10388.9	27.5°	10062.6	9664.2	7710.1	3035.5	1753.0	1582.2	1453.2	1369.8	1305.3	1274.9
10859.4	30°	10415.5	9922.2	7247.2	2303.2	1612.6	1449.4	1328.0	1255.9	1191.4	1161.1
11470.3	32.5°	10893.5	10248.5	6753.9	1889.6	1491.2	1324.2	1214.2	1145.9	1089.0	1066.2
12263.3	35°	11557.6	10730.4	6329.0	1855.4	1388.7	1221.8	1111.7	1047.2	990.3	971.4
13287.8	37.5°	12498.6	11508.2	6105.1	2083.1	1305.3	1130.7	1028.3	960.0	906.8	891.7
14589.2	40°	13659.6	12563.1	6226.5	2310.8	1248.3	1051.0	952.4	884.1	838.5	819.6
16084.2	42.5°	15037.0	13864.5	6898.1	2485.3	1210.4	982.7	880.3	804.4	774.0	766.5
17780.3	45°	16619.2	15295.0	7926.4	2671.2	1149.7	918.2	808.2	751.3	728.5	724.7
19624.3	47.5°	18417.7	16865.8	9117.8	2902.7	1089.0	857.5	751.3	713.3	694.4	686.8
21548.1	50°	20201.1	18448.1	10343.4	3031.7	1039.6	800.6	705.7	675.4	660.2	656.4
23581.8	52.5°	22067.9	20075.9	11333.7	2910.3	997.9	755.1	667.8	645.0	629.9	626.1
25456.2	55°	23847.4	21392.5	11504.4	2470.1	914.4	709.5	626.1	614.7	595.7	595.7
27357.2	57.5°	25380.3	22052.7	10297.8	1813.7	831.0	641.2	584.3	572.9	557.8	554.0
29072.2	60°	26788.0	21863.0	7949.1	1221.8	739.9	572.9	531.2	523.6	508.4	489.5
30563.4	62.5°	27581.1	21028.2	5437.3	796.8	648.8	500.9	470.5	466.7	432.6	394.6
31667.6	65°	27880.8	19313.2	3392.1	580.5	542.6	428.8	406.0	398.4	349.1	307.3
32293.6	67.5°	27619.0	16490.2	1711.2	459.1	428.8	356.7	333.9	333.9	299.8	261.8
32255.7	70°	26571.8	12362.0	720.9	368.1	330.1	273.2	273.2	288.4	254.2	212.5
30582.4	72.5°	24299.0	8317.2	383.2	280.8	246.6	193.5	223.9	235.2	201.1	159.4
25031.3	75°	19317.0	5073.0	265.6	208.7	155.6	136.6	170.7	178.3	136.6	106.2
17161.8	77.5°	13211.9	2914.1	178.3	132.8	98.7	79.7	117.6	110.0	72.1	49.3
6617.3	80°	5801.5	1214.2	102.4	60.7	37.9	30.4	41.7	30.4	22.8	15.2
906.8	82.5°	679.2	284.6	37.9	22.8	15.2	7.6	3.8	0.0	0.0	0.0
277.0	85°	140.4	34.1	19.0	7.6	3.8	0.0	0.0	0.0	0.0	0.0
49.3	87.5°	26.6	7.6	3.8	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>
6807.0
6613.5
6321.4
5444.9
3961.3
2561.2
2052.7
1870.6
1696.1
1525.3
1377.3
1274.9
1164.9
1066.2
971.4
887.9
815.8
766.5
720.9
686.8
656.4
626.1
591.9
550.2
485.7
387.0
303.5
258.0
208.7
159.4
102.4
53.1
15.2
0.0
0.0
0.0
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