

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: P941928

Luminaire Tested: **GALN-SB5C-940-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941928
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5C-940-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20756 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

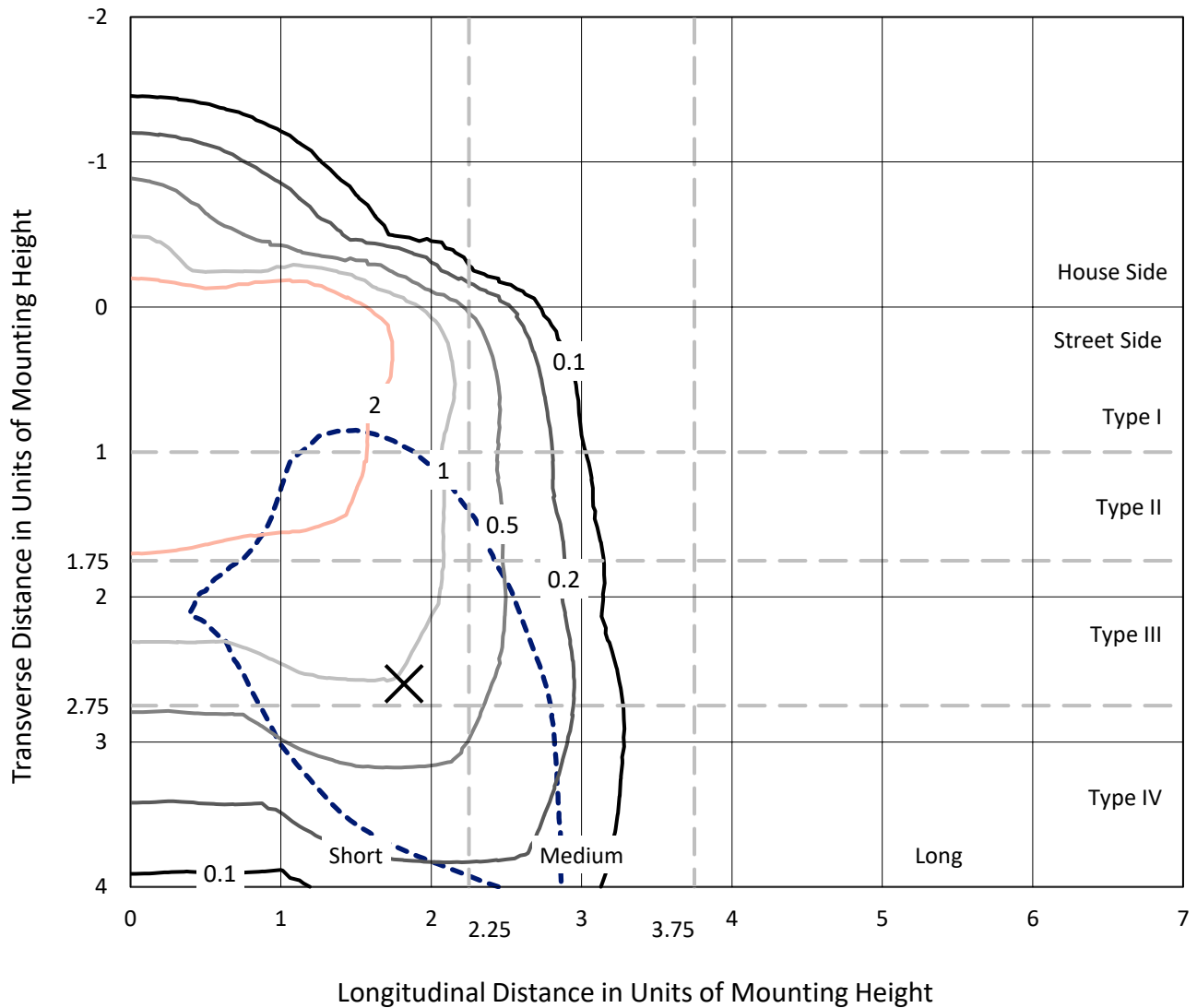
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

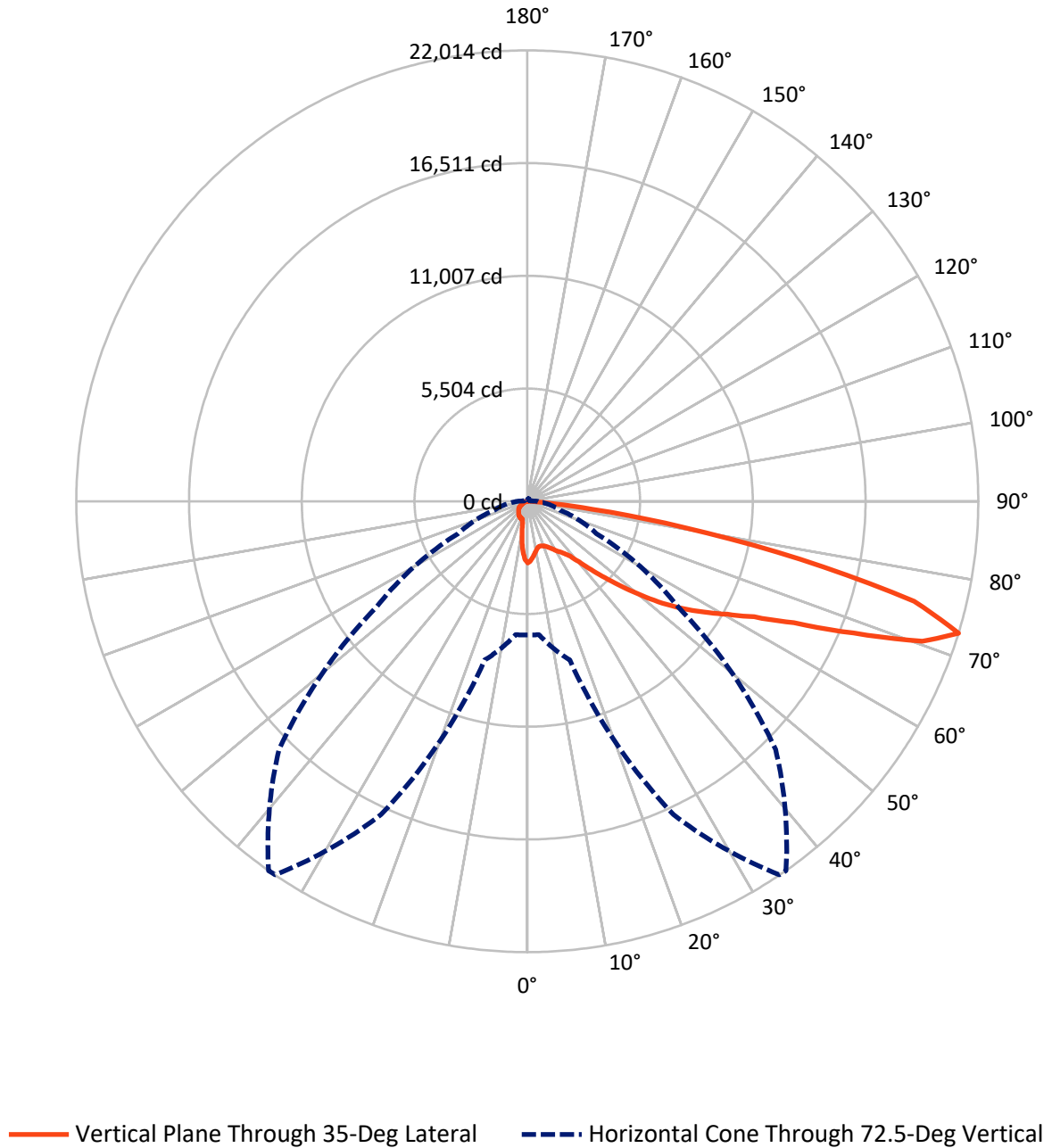
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	2336.0	0.0	2336.0
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	18420.0	0.0	18420.0
	% Fixture	88.7	0.0	88.7
Total	Lumens	20756.0	0.0	20756.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.2	1.2
10°-20°	578.3	2.8
20°-30°	939.4	4.5
30°-40°	1567.4	7.6
40°-50°	2965.6	14.3
50°-60°	4712.3	22.7
60°-70°	5829.4	28.1
70°-80°	3623.6	17.5
80°-90°	292.8	1.4
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°	20756.0	100.0
0°-180°	20756.0	100.0

Coefficient of Utilization



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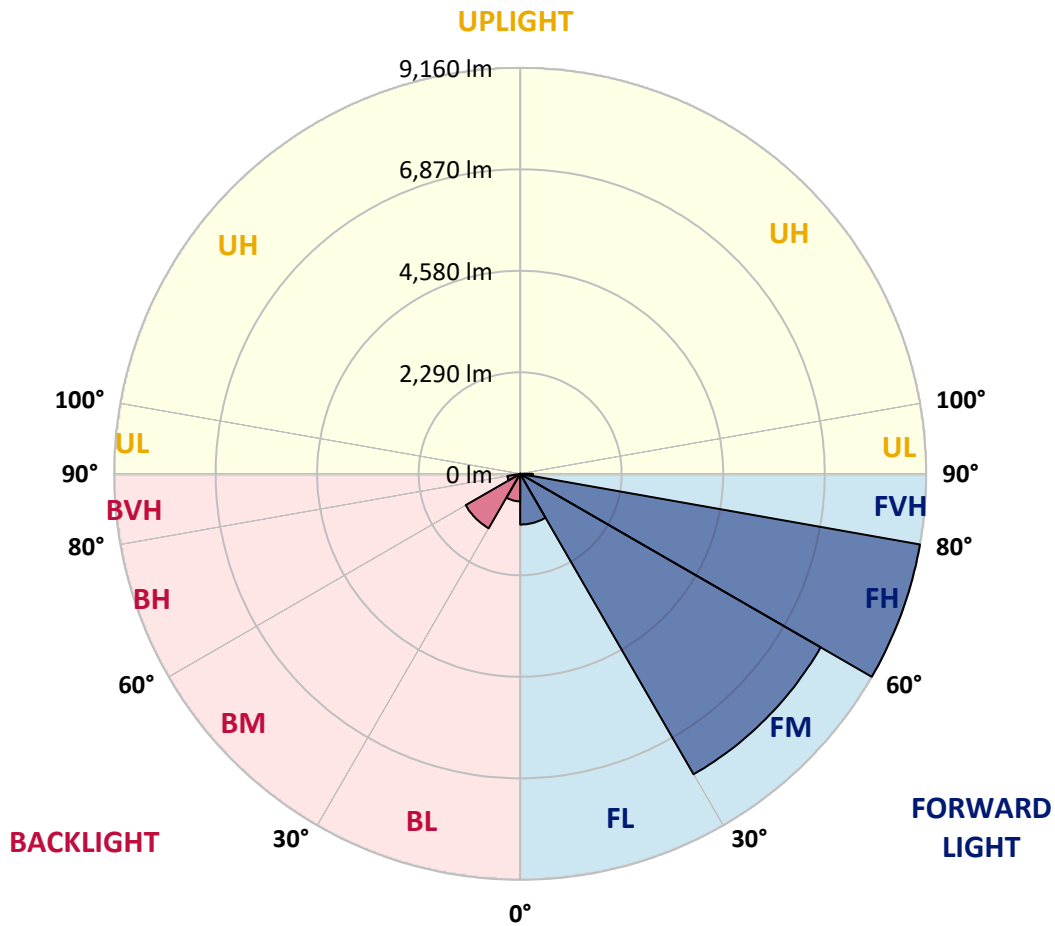
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1144.2	5.5			
FM (30°-60°)	7827.1	37.7			
FH (60°-80°)	9159.9	44.1			G4/12000
FVH (80°-90°)	288.9	1.4			G3/500
BL (0°-30°)	620.7	3.0	B2/1000		
BM (30°-60°)	1418.2	6.8	B2/2500		
BH (60°-80°)	293.1	1.4	B1/500		G1/500
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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	3008.2	3008.2	3008.2	3008.2	3008.2	3008.2	3008.2	3008.2	3008.2	3008.2
2.5°	2874.4	2898.7	2903.3	2910.9	2910.9	2920.0	2935.2	2956.5	2991.5	3009.8
5°	2649.3	2667.6	2690.4	2708.6	2743.6	2748.2	2807.5	2865.3	2945.9	3006.7
7.5°	2422.7	2444.0	2474.4	2518.5	2564.2	2577.8	2667.6	2764.9	2892.7	3006.7
10°	2263.0	2264.5	2291.9	2336.0	2409.0	2425.8	2535.3	2673.7	2833.3	2988.5
12.5°	2173.3	2183.9	2196.1	2229.6	2299.5	2310.2	2427.3	2590.0	2774.0	2977.8
15°	2173.3	2180.9	2188.5	2205.2	2261.5	2270.6	2374.0	2536.8	2743.6	2982.4
17.5°	2196.1	2208.3	2202.2	2222.0	2281.3	2287.4	2378.6	2521.6	2742.1	3011.3
20°	2250.9	2260.0	2247.8	2260.0	2319.3	2331.5	2425.8	2550.5	2767.9	3061.5
22.5°	2337.5	2342.1	2313.2	2322.3	2383.2	2398.4	2507.9	2632.6	2830.3	3142.1
25°	2447.0	2456.2	2412.1	2422.7	2480.5	2498.8	2625.0	2755.8	2929.2	3253.1
27.5°	2573.3	2577.8	2539.8	2538.3	2612.8	2638.7	2766.4	2907.9	3061.5	3393.0
30°	2717.8	2731.4	2694.9	2688.9	2783.2	2804.4	2930.7	3094.9	3256.1	3602.9
32.5°	2831.8	2842.5	2821.2	2836.4	2932.2	2948.9	3129.9	3359.6	3561.8	3901.0
35°	2996.1	3002.2	2953.5	2980.9	3090.4	3132.9	3402.1	3730.6	3946.6	4275.1
37.5°	3590.7	3590.7	3383.9	3248.5	3353.5	3391.5	3774.7	4197.5	4421.1	4777.0
40°	4413.5	4399.8	4097.2	3820.4	3806.7	3881.2	4305.5	4786.1	5034.0	5379.2
42.5°	5291.0	5269.7	4857.6	4583.8	4538.2	4564.1	4918.4	5511.6	5764.0	6113.8
45°	6069.7	6063.6	5686.5	5318.4	5236.3	5318.4	5683.4	6360.2	6541.2	6909.2
47.5°	6722.2	6722.2	6446.9	6206.6	6164.0	6212.7	6719.1	7301.6	7284.9	7756.3
50°	7473.5	7467.4	7205.8	7102.4	7146.5	7214.9	7911.5	8293.2	8054.4	8588.2
52.5°	7999.7	8036.2	7946.4	7929.7	8154.8	8273.4	9122.1	9263.5	8743.4	9377.6
55°	8416.4	8459.0	8562.4	8679.5	9112.9	9268.1	10294.6	10183.6	9319.8	10061.9
57.5°	9006.5	8945.6	9105.3	9336.5	10037.6	10224.7	11430.7	11052.0	9783.6	10617.1
60°	9722.8	9731.9	9759.3	10051.3	10960.8	11201.1	12550.1	11873.3	10081.7	10957.7
62.5°	10583.6	10597.3	10653.6	11102.2	12200.3	12426.9	13742.4	12545.5	10218.6	10861.9
65°	10524.3	10582.1	11210.2	12744.7	14084.6	14308.2	15134.0	13017.0	10011.8	9985.9
67.5°	9587.4	9681.7	10732.6	14706.6	16925.5	17175.0	16816.0	13109.7	9119.0	7765.5
70°	8358.6	8392.0	9655.9	16470.8	20215.1	20467.6	18321.7	12089.2	6919.9	4331.4
72.5°	6527.5	6535.1	8017.9	16879.9	22000.6	22014.3	17140.0	8974.5	3721.5	1663.8
75°	4662.9	4617.3	5370.1	13689.2	19355.9	19511.0	12849.7	4209.7	1422.0	786.3
77.5°	2500.3	2550.5	3038.7	8118.3	13371.3	13635.9	7011.1	1213.6	723.9	535.3
80°	772.6	815.2	1245.6	3717.0	7573.8	7733.5	2599.1	539.9	504.9	381.7
82.5°	243.3	252.5	581.0	1561.9	3143.6	3216.6	752.8	305.7	345.2	252.5
85°	70.0	71.5	258.5	582.5	777.2	792.4	211.4	118.6	197.7	156.6
87.5°	7.6	24.3	97.3	97.3	68.4	66.9	22.8	25.9	56.3	19.8
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°
3008.2	0°	3008.2	3008.2	3008.2	3008.2	3008.2	3008.2	3008.2	3008.2	3008.2	3008.2
3021.9	2.5°	3014.3	3015.8	2996.1	2962.6	2926.1	2895.7	2857.7	2827.3	2806.0	2799.9
3049.3	5°	3035.6	3025.0	2968.7	2866.8	2745.1	2640.2	2523.1	2430.3	2369.5	2343.6
3078.2	7.5°	3067.6	3037.1	2913.9	2713.2	2480.5	2273.7	2063.8	1901.1	1797.6	1745.9
3105.6	10°	3094.9	3034.1	2822.7	2491.2	2135.3	1822.0	1539.1	1342.9	1233.4	1181.7
3137.5	12.5°	3120.8	3032.6	2704.1	2228.0	1745.9	1362.7	1099.6	1002.2	971.8	961.2
3189.2	15°	3169.5	3037.1	2555.0	1926.9	1358.1	1029.6	933.8	932.3	938.4	935.3
3268.3	17.5°	3236.4	3041.7	2386.2	1607.5	1047.9	907.9	903.4	917.1	926.2	921.6
3367.2	20°	3323.1	3059.9	2206.8	1291.2	900.3	877.5	888.2	900.3	907.9	900.3
3499.5	22.5°	3444.7	3091.9	2010.6	1037.2	853.2	859.3	868.4	882.1	889.7	879.1
3668.3	25°	3593.8	3142.1	1817.4	901.9	830.4	838.0	851.7	866.9	876.0	865.4
3881.2	27.5°	3786.9	3222.7	1639.5	871.4	807.6	812.1	831.9	854.7	866.9	853.2
4183.9	30°	4066.8	3355.0	1485.9	885.1	793.9	783.2	810.6	842.6	856.2	844.1
4596.0	32.5°	4437.8	3542.1	1391.6	906.4	787.8	749.8	775.6	816.7	839.5	831.9
5134.4	35°	4924.5	3826.5	1355.1	930.8	783.2	714.8	733.0	777.2	816.7	824.3
5812.7	37.5°	5514.6	4221.9	1365.7	941.4	769.5	685.9	695.0	733.0	784.8	809.1
6576.2	40°	6185.3	4682.7	1426.6	930.8	754.3	661.6	663.1	692.0	737.6	774.1
7397.4	42.5°	6877.3	5221.1	1539.1	891.2	740.7	640.3	635.7	655.5	685.9	711.8
8217.1	45°	7535.8	5774.7	1650.1	836.5	723.9	619.0	608.3	615.9	622.0	632.7
9015.6	47.5°	8110.7	6164.0	1618.2	786.3	701.1	594.7	576.4	573.4	555.1	553.6
9728.9	50°	8507.6	6249.2	1437.2	736.1	667.7	567.3	538.4	520.1	488.2	473.0
10262.7	52.5°	8633.9	5913.1	1174.1	685.9	612.9	530.8	489.7	460.8	421.3	407.6
10569.9	55°	8466.6	5254.5	938.4	625.1	536.9	482.1	436.5	398.5	366.5	349.8
10603.4	57.5°	8057.5	4416.5	742.2	553.6	456.3	427.4	381.7	343.7	316.3	299.6
10232.3	60°	7379.2	3507.1	587.0	468.4	389.3	368.0	320.9	296.6	272.2	252.5
9274.1	62.5°	6349.5	2503.3	460.8	371.1	325.5	301.1	273.8	255.5	226.6	199.2
7551.0	65°	4954.9	1531.5	355.9	272.2	261.6	249.4	232.7	216.0	181.0	153.6
4926.0	67.5°	3125.3	725.4	254.0	205.3	206.8	200.8	193.1	179.5	153.6	129.3
2206.8	70°	1376.4	351.3	167.3	156.6	153.6	153.6	159.7	155.1	130.8	108.0
766.5	72.5°	468.4	188.6	124.7	118.6	111.0	109.5	133.8	129.3	104.9	83.6
381.7	75°	244.9	126.2	91.3	85.2	66.9	80.6	106.5	100.4	74.5	54.8
252.5	77.5°	159.7	89.7	62.4	54.8	38.0	53.2	79.1	70.0	44.1	27.4
165.8	80°	100.4	59.3	36.5	25.9	18.3	28.9	42.6	30.4	16.7	6.1
97.3	82.5°	53.2	30.4	13.7	9.1	7.6	9.1	10.6	7.6	3.0	0.0
50.2	85°	21.3	10.6	4.6	3.0	1.5	0.0	3.0	1.5	0.0	0.0
9.1	87.5°	7.6	1.5	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

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180°
3008.2
2810.5
2352.8
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1183.2
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853.2
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