

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: STREETWORKS

Report Number: P848145

Luminaire Tested: **GLAN-SB4C-827-U-T2-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P848145
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB4C-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17475 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

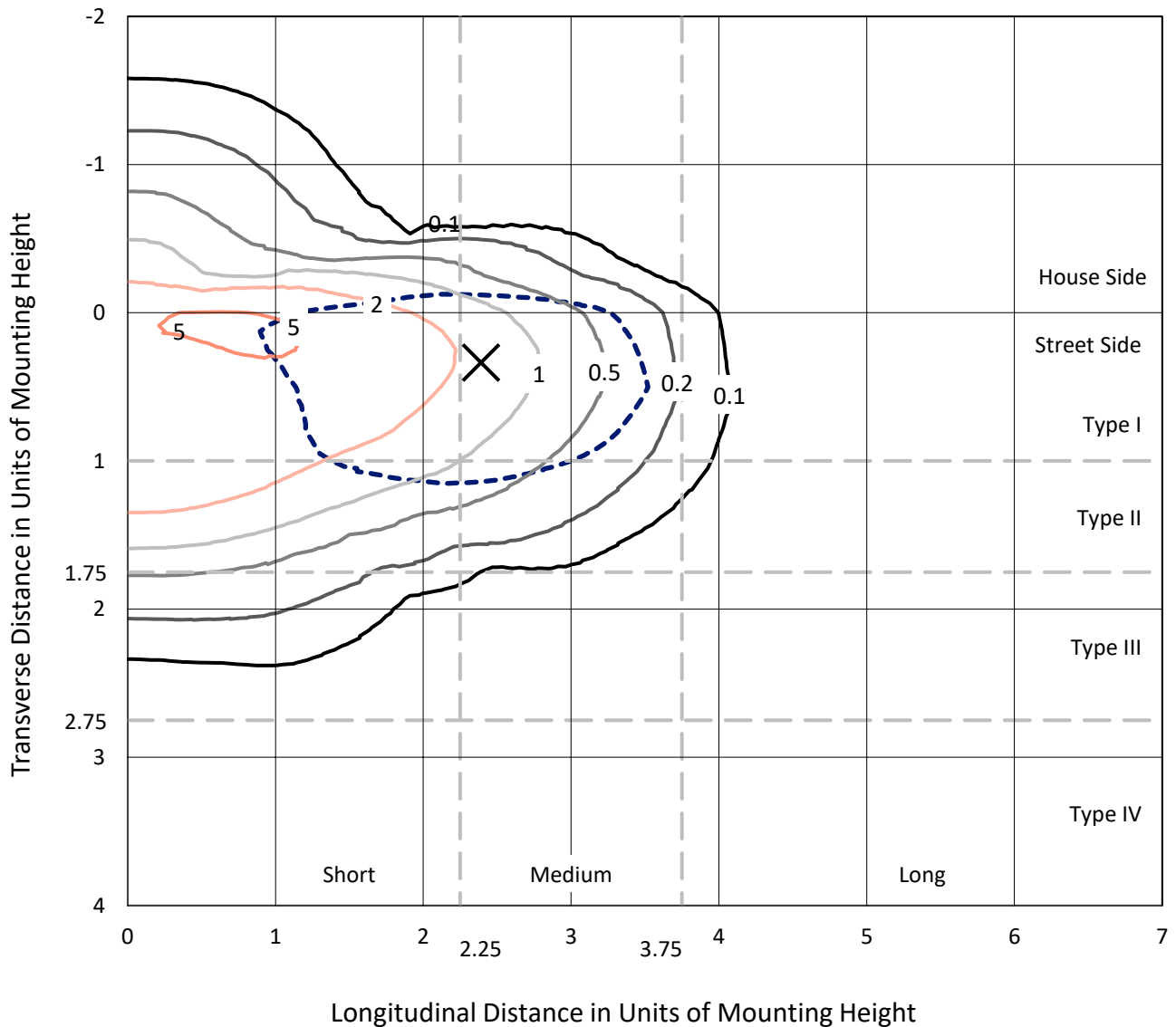
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

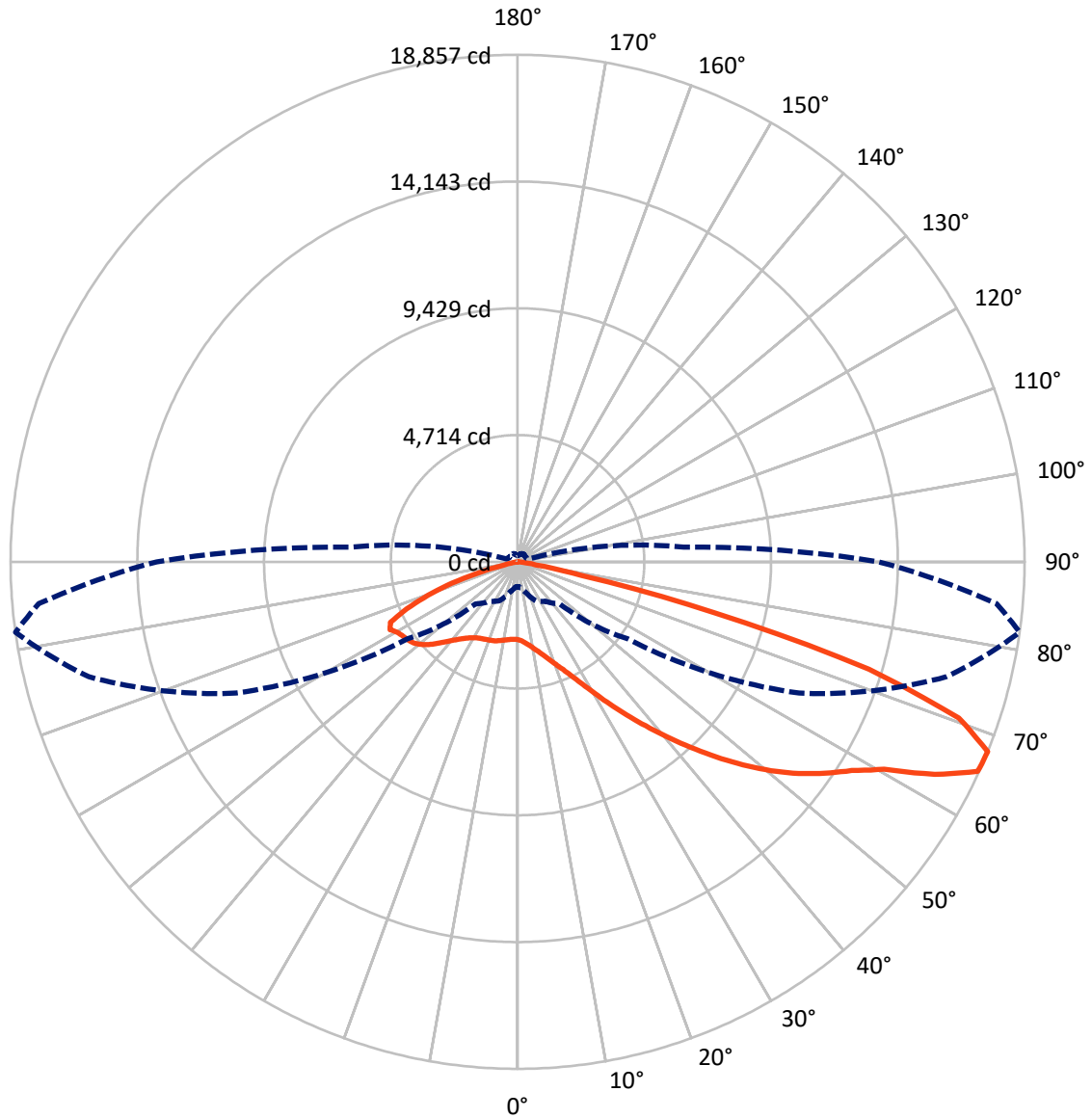
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3165.4	0.0	3165.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	14309.6	0.0	14309.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	17475.0	0.0	17475.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.9	1.5
10°-20°	670.2	3.8
20°-30°	1073.5	6.1
30°-40°	1898.3	10.9
40°-50°	3326.0	19.0
50°-60°	4436.0	25.4
60°-70°	4129.7	23.6
70°-80°	1585.0	9.1
80°-90°	98.4	0.6
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°	17475.0	100.0
0°-180°	17475.0	100.0

Coefficient of Utilization

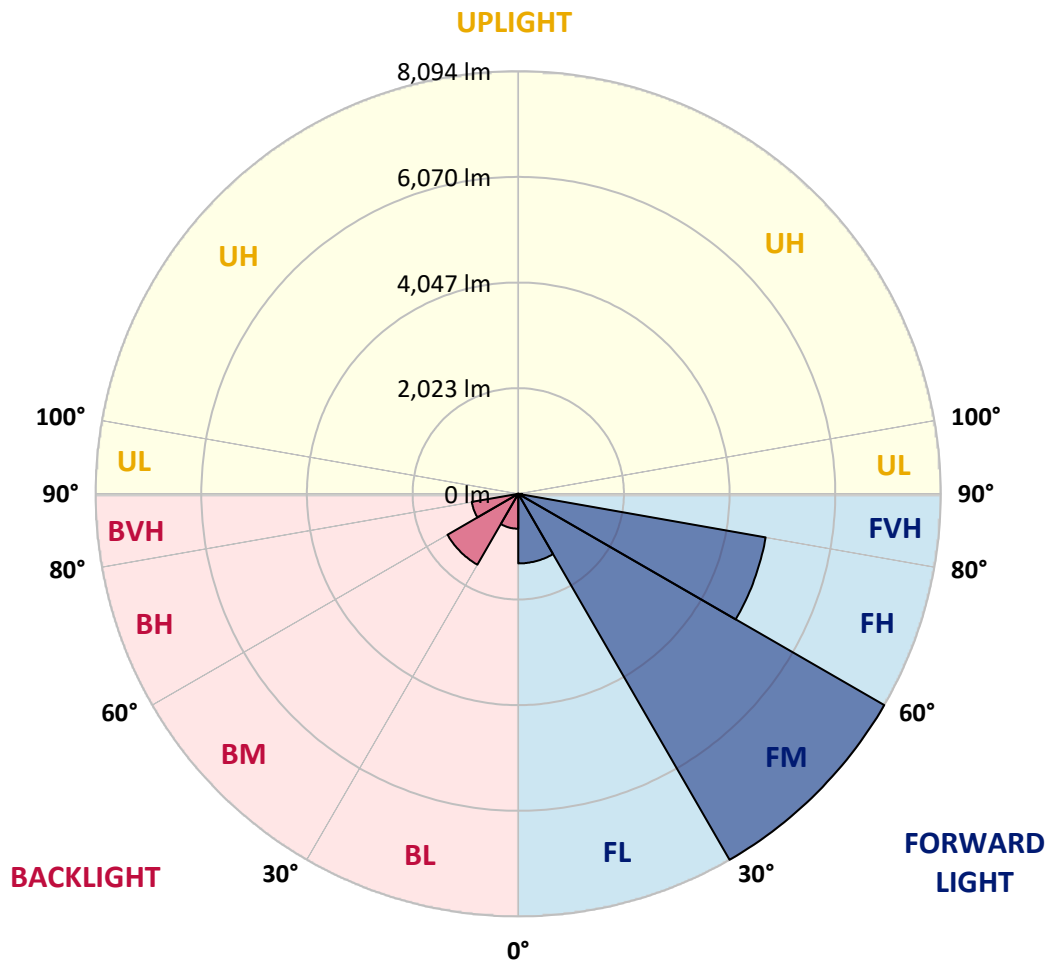


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1333.1	7.6			
FM (30°-60°)	8093.7	46.3			
FH (60°-80°)	4811.1	27.5			G2/5000
FVH (80°-90°)	71.6	0.4			G1/100
BL (0°-30°)	668.5	3.8	B2/1000		
BM (30°-60°)	1566.6	9.0	B2/2500		
BH (60°-80°)	903.5	5.2	B2/1000		G2/1000
BVH (80°-90°)	26.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2895.0	2895.0	2895.0	2895.0	2895.0	2895.0	2895.0	2895.0	2895.0	2895.0
2.5°	3059.8	3077.4	3067.4	3062.4	3053.5	3041.0	3030.9	2999.4	2966.7	2945.3
5°	3121.5	3139.1	3137.8	3142.9	3149.2	3152.9	3150.4	3115.2	3068.6	3032.2
7.5°	3068.6	3088.8	3105.1	3130.3	3174.3	3220.9	3243.5	3236.0	3188.2	3137.8
10°	2918.9	2940.3	2979.3	3038.4	3131.5	3232.2	3316.5	3355.5	3325.3	3269.9
12.5°	2644.6	2666.0	2742.8	2871.1	3027.1	3202.0	3363.1	3467.5	3475.0	3419.7
15°	2336.4	2357.8	2439.6	2600.6	2838.4	3119.0	3388.2	3585.7	3652.4	3604.6
17.5°	2145.2	2164.0	2225.7	2355.3	2603.1	2952.9	3379.4	3711.6	3863.8	3826.1
20°	2087.3	2103.6	2132.6	2223.2	2429.5	2780.5	3321.5	3829.8	4091.5	4070.1
22.5°	2148.9	2164.0	2172.8	2213.1	2342.7	2667.3	3248.6	3950.6	4355.7	4358.3
25°	2291.1	2306.2	2296.1	2321.3	2377.9	2632.1	3220.9	4092.8	4687.9	4715.6
27.5°	2525.1	2526.4	2502.5	2501.2	2510.0	2684.9	3249.8	4245.0	5106.9	5158.4
30°	2994.4	2975.5	2883.7	2784.3	2739.0	2843.4	3330.3	4424.9	5601.3	5693.2
32.5°	3717.8	3690.2	3521.6	3283.8	3044.7	3098.8	3475.0	4630.0	6139.8	6305.9
35°	4502.9	4495.4	4319.2	3965.7	3548.0	3462.4	3710.3	4899.3	6727.4	6991.6
37.5°	5232.7	5228.9	5128.2	4711.8	4203.5	3969.5	4087.7	5251.5	7356.4	7738.9
40°	5899.5	5910.8	5810.2	5437.7	4925.7	4619.9	4601.1	5686.9	8056.0	8552.9
42.5°	6475.7	6488.3	6386.4	6110.9	5639.1	5339.6	5231.4	6220.3	8739.1	9427.4
45°	6867.0	6945.0	6929.9	6709.7	6371.3	6060.5	5988.8	6889.7	9517.9	10354.6
47.5°	6977.7	7049.4	7162.7	7192.9	6986.5	6680.8	6766.4	7696.1	10305.6	11283.1
50°	6704.7	6771.4	7006.7	7319.9	7463.4	7369.0	7522.5	8560.5	11112.0	12209.1
52.5°	6166.2	6234.2	6531.1	7026.8	7611.8	7908.8	8281.2	9412.3	11893.3	13086.1
55°	5387.4	5459.1	5840.4	6401.5	7328.8	8131.5	8914.0	10262.8	12609.2	13874.9
57.5°	4328.1	4380.9	4777.2	5562.3	6616.6	7910.0	9380.8	11191.3	13283.6	14650.0
60°	2820.8	2867.3	3327.8	4203.5	5436.5	7170.2	9473.9	12226.8	14179.4	15657.7
62.5°	1875.9	1907.4	2180.4	2823.3	3828.6	5749.8	8929.1	13053.4	15492.9	17411.6
65°	1287.1	1318.5	1591.6	2039.5	2473.5	3803.4	7362.7	12943.9	16683.1	18804.4
67.5°	918.5	944.9	1176.4	1599.1	1790.4	2209.3	4991.1	11544.8	16512.0	18857.2
70°	658.0	673.1	864.4	1245.6	1423.0	1327.4	2775.5	8829.7	14457.5	17412.9
72.5°	460.5	465.5	600.1	948.6	1146.2	968.8	1321.1	5886.9	10934.6	13667.3
75°	312.0	318.3	403.9	695.8	919.7	739.8	699.5	3156.7	6419.1	7565.3
77.5°	191.2	193.8	260.4	475.6	688.2	563.7	450.4	1337.4	2483.6	2438.3
80°	108.2	108.2	166.1	295.7	469.3	363.6	315.8	568.7	786.3	690.7
82.5°	60.4	61.6	120.8	183.7	310.8	215.1	173.6	263.0	339.7	300.7
85°	25.2	27.7	74.2	86.8	148.5	106.9	70.5	110.7	125.8	112.0
87.5°	2.5	3.8	22.6	16.4	17.6	21.4	10.1	21.4	17.6	17.6
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°
2895.0	0°	2895.0	2895.0	2895.0	2895.0	2895.0	2895.0	2895.0	2895.0	2895.0	2895.0
2937.8	2.5°	2913.9	2895.0	2847.2	2791.8	2718.9	2683.6	2635.8	2603.1	2575.4	2578.0
3010.8	5°	2970.5	2922.7	2815.8	2682.4	2516.3	2398.0	2272.2	2185.4	2115.0	2099.9
3111.4	7.5°	3048.5	2973.0	2785.6	2545.2	2264.7	2052.1	1862.1	1740.0	1653.2	1625.5
3233.5	10°	3149.2	3039.7	2746.6	2372.9	1969.0	1698.5	1494.7	1399.1	1339.9	1319.8
3376.9	12.5°	3266.2	3116.5	2695.0	2162.8	1664.5	1404.1	1274.5	1226.7	1207.8	1201.5
3553.0	15°	3413.4	3212.1	2617.0	1913.7	1406.6	1224.2	1168.8	1162.5	1165.1	1162.5
3764.4	17.5°	3588.3	3316.5	2489.9	1657.0	1233.0	1132.3	1112.2	1117.2	1123.5	1122.3
4000.9	20°	3779.5	3419.7	2327.6	1429.3	1114.7	1066.9	1055.6	1060.6	1065.7	1063.1
4274.0	22.5°	3997.2	3530.4	2147.7	1251.9	1035.5	1006.5	993.9	995.2	995.2	990.2
4619.9	25°	4257.6	3652.4	1958.9	1126.0	975.1	952.4	937.3	932.3	924.7	909.6
5040.2	27.5°	4568.4	3782.0	1777.8	1038.0	927.3	905.9	888.3	875.7	856.8	831.6
5544.7	30°	4918.1	3939.3	1624.3	982.6	889.5	868.1	848.0	829.1	801.4	770.0
6124.7	32.5°	5329.5	4107.9	1512.3	946.1	855.5	832.9	809.0	786.3	756.2	724.7
6776.4	35°	5820.2	4311.7	1446.9	921.0	829.1	798.9	772.5	747.3	724.7	697.0
7484.8	37.5°	6352.4	4528.1	1426.7	908.4	811.5	765.0	734.8	717.1	714.6	698.3
8251.0	40°	6935.0	4784.8	1441.8	900.8	792.6	732.2	699.5	695.8	702.1	673.1
9070.0	42.5°	7551.5	5089.2	1467.0	892.0	766.2	699.5	668.1	668.1	663.0	622.8
9935.7	45°	8218.3	5440.3	1492.2	870.6	734.8	666.8	642.9	634.1	612.7	573.7
10806.3	47.5°	8890.1	5797.6	1511.0	831.6	697.0	639.1	617.8	597.6	566.2	530.9
11660.6	50°	9528.0	6118.4	1490.9	773.8	654.2	612.7	590.1	562.4	528.4	504.5
12469.6	52.5°	10098.0	6396.5	1405.4	705.8	608.9	585.0	564.9	536.0	508.3	483.1
13199.3	55°	10593.7	6621.7	1254.4	641.7	568.7	561.1	541.0	504.5	466.8	445.4
13922.8	57.5°	11069.3	6792.8	1065.7	588.8	532.2	534.7	504.5	471.8	436.6	413.9
14897.8	60°	11702.1	7021.8	874.4	539.7	493.2	500.7	468.0	444.1	400.1	371.2
16569.9	62.5°	12713.7	7377.8	694.5	479.4	447.9	450.4	436.6	407.6	354.8	320.8
17809.2	65°	13516.4	7247.0	547.3	413.9	396.3	400.1	400.1	368.6	312.0	273.0
17875.9	67.5°	13425.8	6205.2	436.6	349.8	347.3	349.8	358.6	332.2	276.8	245.3
16514.6	70°	12367.7	4935.7	349.8	290.6	302.0	295.7	320.8	303.2	249.1	217.7
12803.0	72.5°	10091.7	3555.5	266.7	240.3	231.5	241.6	289.4	273.0	207.6	172.4
6781.5	75°	5897.0	1897.3	198.8	190.0	167.3	201.3	256.7	232.8	158.5	127.1
2078.5	77.5°	1919.9	661.8	145.9	139.7	124.6	162.3	218.9	196.3	129.6	100.7
608.9	80°	514.6	200.0	99.4	91.8	80.5	120.8	173.6	156.0	93.1	65.4
261.7	82.5°	206.3	84.3	57.9	51.6	44.0	83.0	137.1	125.8	69.2	41.5
81.8	85°	66.7	27.7	21.4	16.4	20.1	51.6	81.8	85.6	49.1	21.4
12.6	87.5°	8.8	3.8	3.8	5.0	3.8	8.8	25.2	23.9	13.8	2.5
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°
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2895.0
2552.8
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1161.3
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726.0
694.5
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