

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: P636916

Luminaire Tested: **IFLD-S-SA3A-935-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636916
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-935-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (48) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6733.3 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

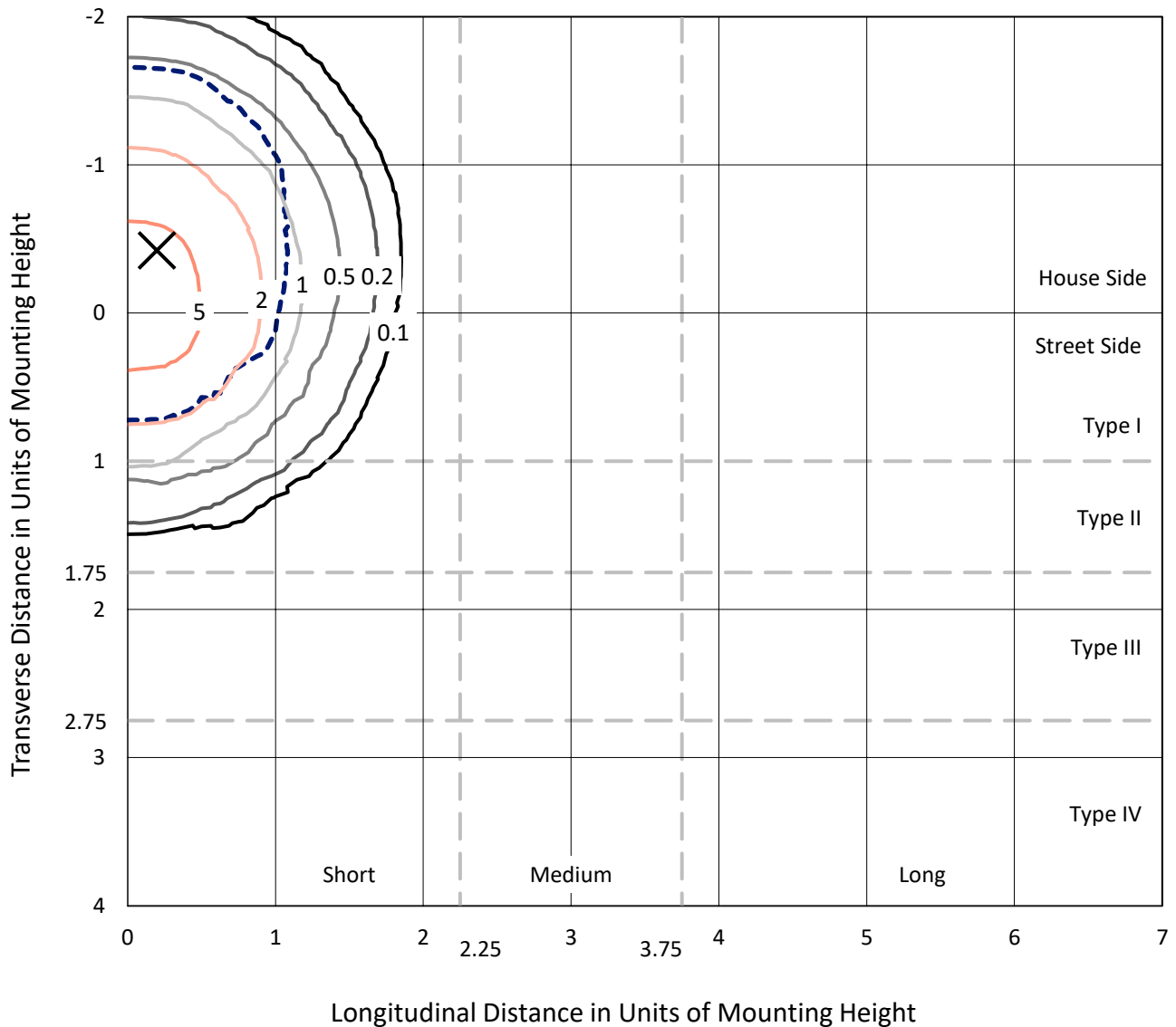
Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

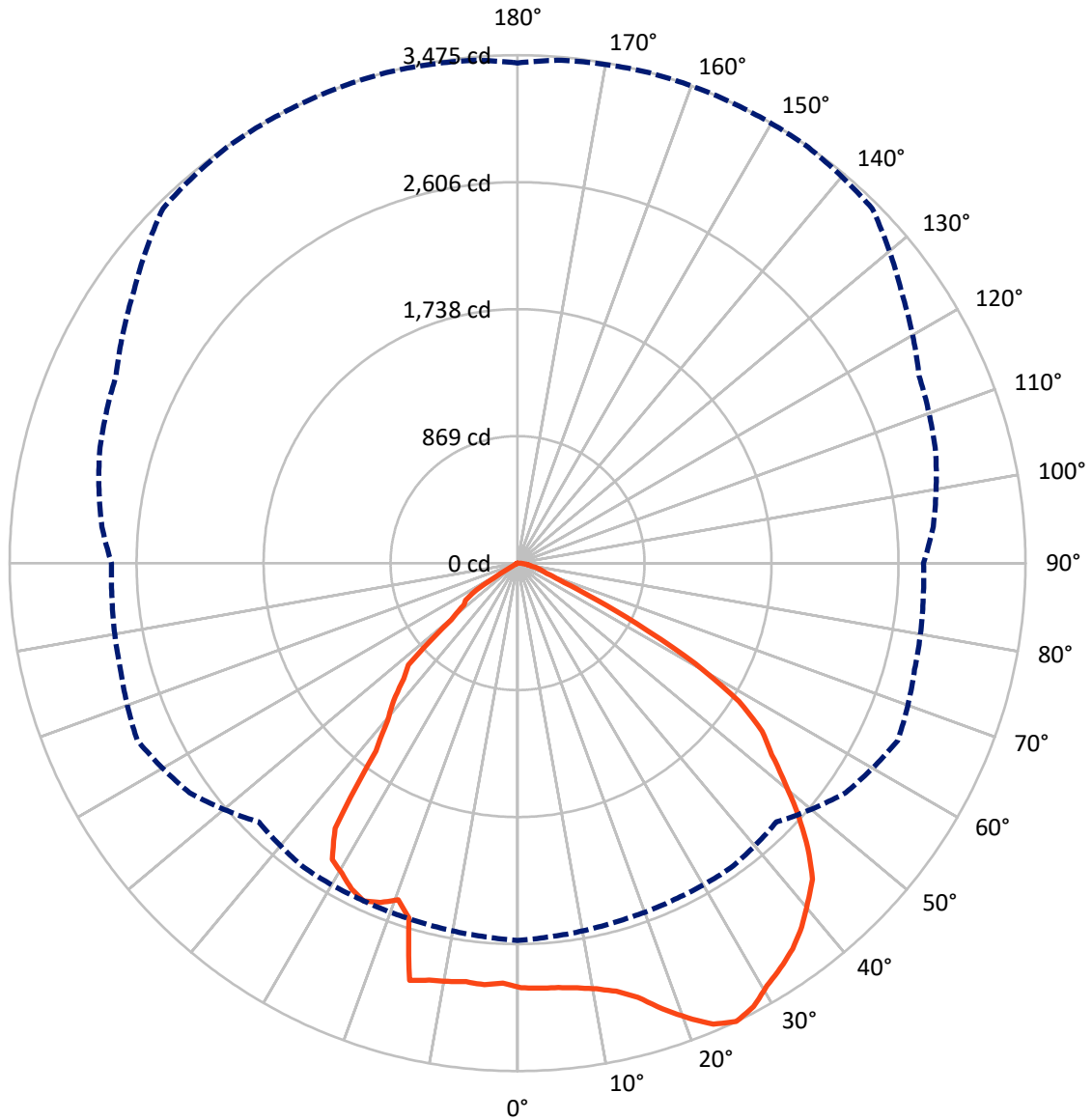
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.3 fc
 Type I - Short - N/A

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CATALOG NUMBER: IFLD-S-SA3A-935-U-LAM-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4168.6	0.0	4168.6
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	2564.7	0.0	2564.7
	% Fixture	38.1	0.0	38.1
Total	Lumens	6733.3	0.0	6733.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.7	4.1
10°-20°	851.1	12.6
20°-30°	1345.5	20.0
30°-40°	1519.9	22.6
40°-50°	1423.4	21.1
50°-60°	981.3	14.6
60°-70°	263.6	3.9
70°-80°	54.9	0.8
80°-90°	14.9	0.2
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°	6733.3	100.0
0°-180°	6733.3	100.0



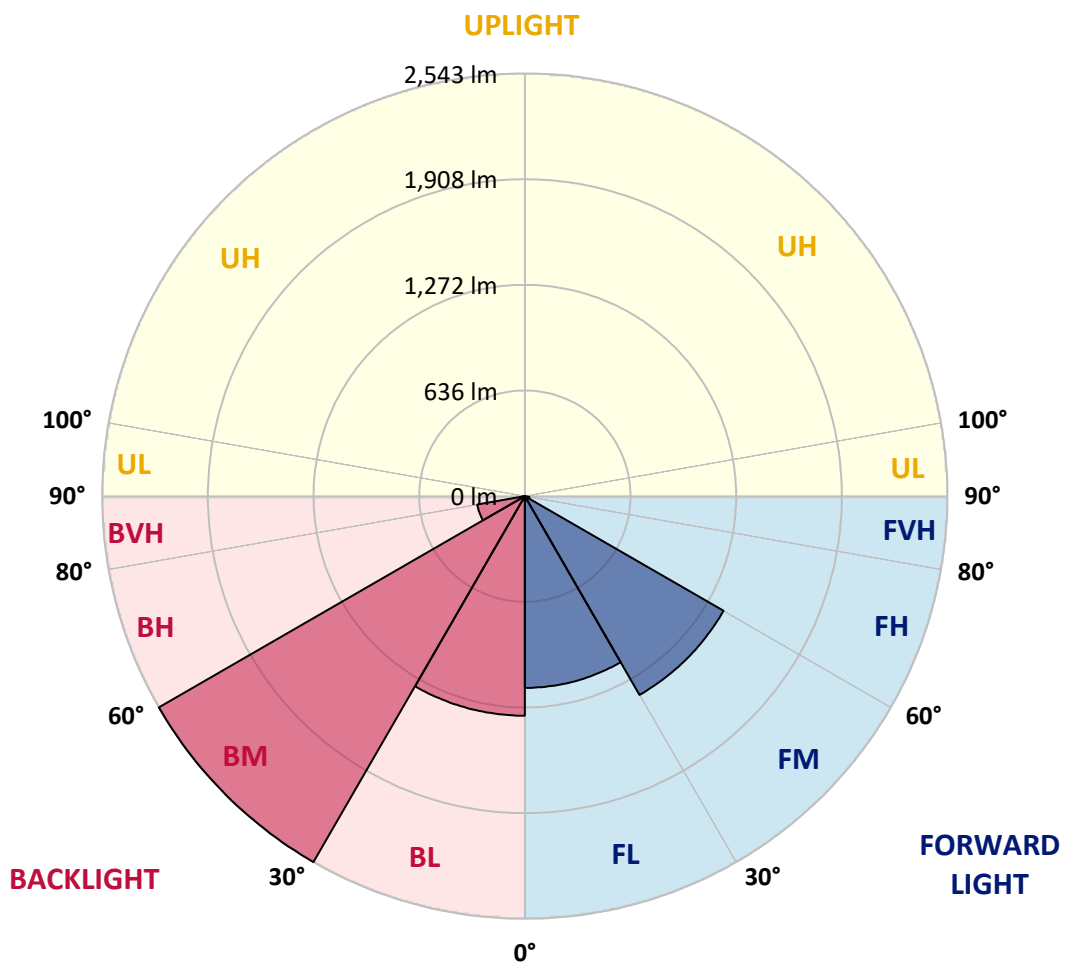
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1153.9	17.1			
FM	(30°-60°)	1381.2	20.5			
FH	(60°-80°)	27.7	0.4			G0/660
FVH	(80°-90°)	2.0	0.0			G0/10
BL	(0°-30°)	1321.4	19.6	B3/2500		
BM	(30°-60°)	2543.4	37.8	B3/5000		
BH	(60°-80°)	290.9	4.3	B1/500		G1/500
BVH	(80°-90°)	12.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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 CATALOG NUMBER: IFLD-S-SA3A-935-U-LAM-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2905.3	2905.3	2905.3	2905.3	2905.3	2905.3	2905.3	2905.3	2905.3	2905.3
2.5°	2918.2	2899.4	2881.6	2875.6	2900.4	2927.1	2910.3	2911.2	2905.3	2916.2
5°	2939.9	2914.2	2902.3	2893.4	2897.4	2925.1	2901.3	2910.3	2900.4	2913.2
7.5°	2932.0	2914.2	2902.3	2885.5	2898.4	2931.0	2908.3	2909.3	2904.3	2916.2
10°	2927.1	2914.2	2899.4	2901.3	2916.2	2943.9	2926.1	2936.0	2929.1	2936.0
12.5°	2939.0	2925.1	2917.2	2917.2	2930.0	2961.7	2952.8	2961.7	2958.7	2964.7
15°	2827.1	2840.0	2915.2	2948.8	2974.6	3006.2	3002.3	3011.2	3013.2	3022.1
17.5°	2384.8	2371.9	2366.0	2539.2	2999.3	3097.3	3094.3	3093.3	3083.4	3076.5
20°	2443.2	2438.2	2431.3	2444.2	2495.6	3144.8	3164.6	3042.9	3007.2	3004.3
22.5°	2536.2	2528.3	2502.6	2503.6	2519.4	2734.1	3066.6	2955.8	2943.9	2937.0
25°	2581.7	2565.9	2545.1	2539.2	2544.1	2504.5	2739.1	2870.7	2812.3	2785.6
27.5°	2501.6	2502.6	2485.7	2501.6	2482.8	2304.7	2204.7	2704.4	2702.4	2690.6
30°	2441.2	2438.2	2418.4	2438.2	2308.6	2109.7	2067.2	2522.4	2501.6	2485.7
32.5°	2256.2	2258.1	2315.5	2392.7	2180.0	2022.6	1894.0	2253.2	2450.1	2441.2
35°	1613.9	1617.9	1821.8	2202.7	1985.0	1849.5	1839.6	1947.4	2369.0	2372.9
37.5°	1553.6	1553.6	1548.6	1611.0	1831.6	1779.2	1799.0	1788.1	2170.1	2180.0
40°	1510.0	1501.1	1494.2	1396.2	1273.5	1729.7	1743.6	1694.1	2051.3	2053.3
42.5°	1457.6	1447.7	1449.7	1268.6	1140.0	1607.0	1568.4	1502.1	1853.4	1855.4
45°	1361.6	1378.4	1390.3	1110.3	1100.4	1147.9	1446.7	1405.2	1719.8	1756.4
47.5°	692.7	707.5	1085.5	1021.2	1044.0	1020.2	1222.1	1223.1	1430.9	1552.6
50°	628.4	624.4	625.4	595.7	963.8	825.3	883.7	1121.2	1145.9	1320.1
52.5°	585.8	584.8	524.5	466.1	605.6	726.3	641.2	811.4	852.0	1118.2
55°	433.4	465.1	413.6	438.4	379.0	581.9	578.9	732.3	746.1	896.5
57.5°	4.0	4.9	11.9	333.5	262.2	290.9	399.8	499.7	524.5	698.6
60°	1.0	2.0	4.9	9.9	170.2	179.1	267.2	288.9	325.6	416.6
62.5°	0.0	0.0	2.0	4.9	8.9	73.2	85.1	93.0	143.5	212.8
65°	0.0	0.0	1.0	3.0	4.9	11.9	20.8	43.5	62.3	77.2
67.5°	0.0	0.0	1.0	2.0	4.0	5.9	11.9	16.8	26.7	45.5
70°	0.0	0.0	1.0	2.0	3.0	4.9	7.9	11.9	15.8	22.8
72.5°	0.0	0.0	1.0	2.0	2.0	5.9	5.9	8.9	11.9	14.8
75°	0.0	0.0	1.0	1.0	2.0	4.0	5.9	6.9	7.9	11.9
77.5°	0.0	0.0	1.0	2.0	3.0	4.0	4.9	7.9	6.9	6.9
80°	0.0	0.0	1.0	3.0	3.0	4.9	5.9	7.9	4.9	4.9
82.5°	0.0	0.0	1.0	4.0	3.0	9.9	9.9	10.9	4.0	4.0
85°	0.0	0.0	3.0	2.0	5.9	9.9	8.9	5.9	4.9	3.0
87.5°	0.0	0.0	1.0	1.0	2.0	3.0	6.9	5.9	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636916
 CATALOG NUMBER: IFLD-S-SA3A-935-U-LAM-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
2905.3	0°	2905.3	2905.3	2905.3	2905.3	2905.3	2905.3	2905.3	2905.3	2905.3
2887.5	2.5°	2927.1	2914.2	2940.9	2938.0	2925.1	2919.2	2912.2	2906.3	2862.8
2889.5	5°	2928.1	2908.3	2940.9	2935.0	2933.0	2923.1	2917.2	2926.1	2886.5
2897.4	7.5°	2928.1	2908.3	2943.9	2945.9	2942.9	2935.0	2934.0	2939.9	2907.3
2911.2	10°	2947.9	2939.9	2969.6	2972.6	2968.6	2966.7	2961.7	2957.8	2923.1
2958.7	12.5°	2989.4	2973.6	3007.2	3016.1	3013.2	3018.1	3006.2	3012.2	2976.6
3007.2	15°	3039.9	3040.9	3066.6	3086.4	3084.4	3100.2	3082.4	3098.3	3072.5
3062.6	17.5°	3117.1	3128.0	3164.6	3194.3	3205.1	3217.0	3205.1	3210.1	3173.5
3001.3	20°	3035.9	3076.5	3252.6	3307.1	3329.8	3340.7	3320.9	3326.9	3290.2
2926.1	22.5°	2962.7	3015.1	3171.5	3341.7	3412.0	3433.7	3426.8	3425.8	3412.0
2777.7	25°	2854.8	2960.7	3031.0	3211.1	3431.7	3471.3	3475.3	3474.3	3453.5
2686.6	27.5°	2722.2	2746.0	2928.1	3037.9	3293.2	3443.6	3437.7	3409.0	3381.3
2497.6	30°	2553.0	2660.9	2743.0	2918.2	3114.1	3358.5	3358.5	3336.7	3308.1
2430.3	32.5°	2466.9	2606.5	2682.7	2746.0	2913.2	3263.5	3303.1	3280.3	3257.6
2377.9	35°	2421.4	2442.2	2620.3	2677.7	2819.2	3080.5	3240.8	3218.0	3201.2
2238.4	37.5°	2321.5	2370.0	2453.1	2606.5	2650.0	2931.0	3157.6	3145.8	3126.0
2057.3	40°	2098.8	2228.5	2356.1	2501.6	2547.1	2739.1	3056.7	3061.7	3034.9
1864.3	42.5°	1967.2	2055.3	2255.2	2353.1	2475.8	2615.4	2958.7	2966.7	2947.9
1766.3	45°	1812.8	1910.8	2051.3	2229.4	2396.7	2445.2	2785.6	2868.7	2852.9
1571.4	47.5°	1671.3	1750.5	1922.7	2102.8	2287.8	2280.9	2586.7	2743.0	2721.3
1422.0	50°	1470.5	1609.0	1690.1	1855.4	2131.5	2150.3	2374.9	2595.6	2577.8
1208.2	52.5°	1239.9	1414.1	1569.4	1720.8	1973.2	2017.7	2178.0	2445.2	2433.3
923.2	55°	1083.6	1210.2	1385.4	1507.1	1781.2	1899.9	2030.5	2301.7	2295.7
759.0	57.5°	770.9	1015.3	1159.7	1329.9	1474.4	1689.2	1786.1	2009.8	1954.4
420.6	60°	522.5	637.3	813.4	996.5	1093.4	1308.2	1398.2	1577.3	1562.5
251.3	62.5°	276.1	382.0	507.6	599.7	669.9	878.7	916.3	1109.3	1104.3
100.9	65°	121.7	161.3	275.1	322.6	394.8	491.8	524.5	593.7	576.9
49.5	67.5°	63.3	96.0	155.4	191.0	240.5	277.1	303.8	325.6	339.4
32.7	70°	38.6	70.3	96.0	132.6	165.3	194.9	215.7	245.4	263.2
16.8	72.5°	28.7	44.5	66.3	101.9	119.7	154.4	175.1	196.9	212.8
13.9	75°	15.8	29.7	53.4	80.2	96.0	125.7	144.5	159.3	164.3
7.9	77.5°	9.9	22.8	44.5	62.3	75.2	101.9	97.0	110.8	122.7
5.9	80°	6.9	16.8	34.6	51.5	52.4	65.3	77.2	89.1	97.0
4.0	82.5°	4.9	13.9	25.7	39.6	34.6	50.5	60.4	69.3	50.5
3.0	85°	4.0	9.9	12.9	23.7	19.8	35.6	30.7	29.7	19.8
2.0	87.5°	3.0	4.9	8.9	10.9	7.9	7.9	9.9	11.9	9.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
2905.3
2833.1
2852.9
2869.7
2894.4
2944.9
3030.0
3141.8
3264.5
3367.4
3421.8
3359.5
3297.2
3238.8
3177.4
3106.2
3029.0
2945.9
2854.8
2737.1
2580.7
2441.2
2302.7
1948.4
1563.5
1105.3
570.0
339.4
264.2
215.7
161.3
124.7
98.0
36.6
19.8
9.9
0.0

(END OF REPORT)