

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: P1210939

Luminaire Tested: **ARCH4-120-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-120-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1000mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

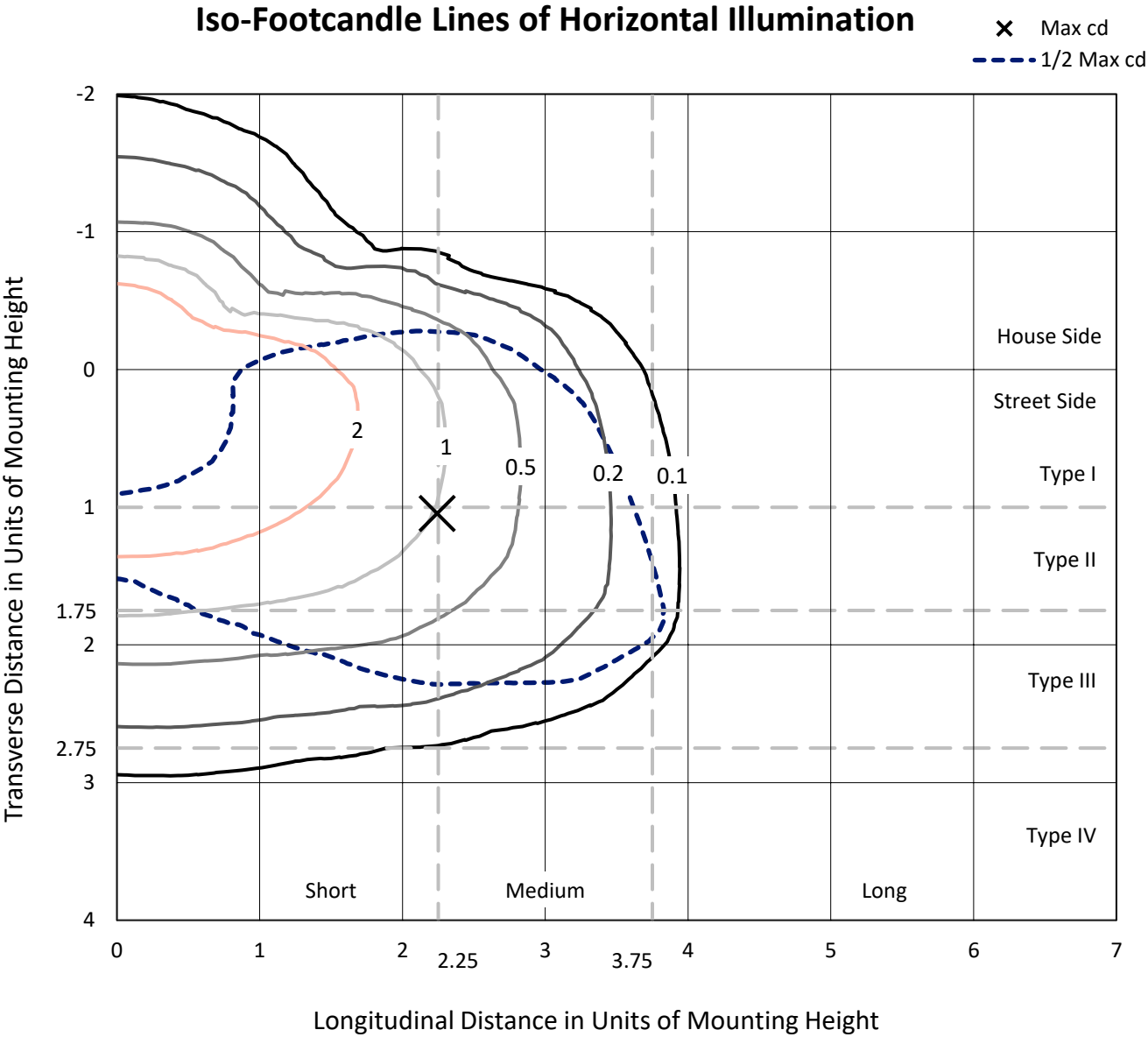
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19154 lumens
Efficiency: N/A
Efficacy: 157.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 122
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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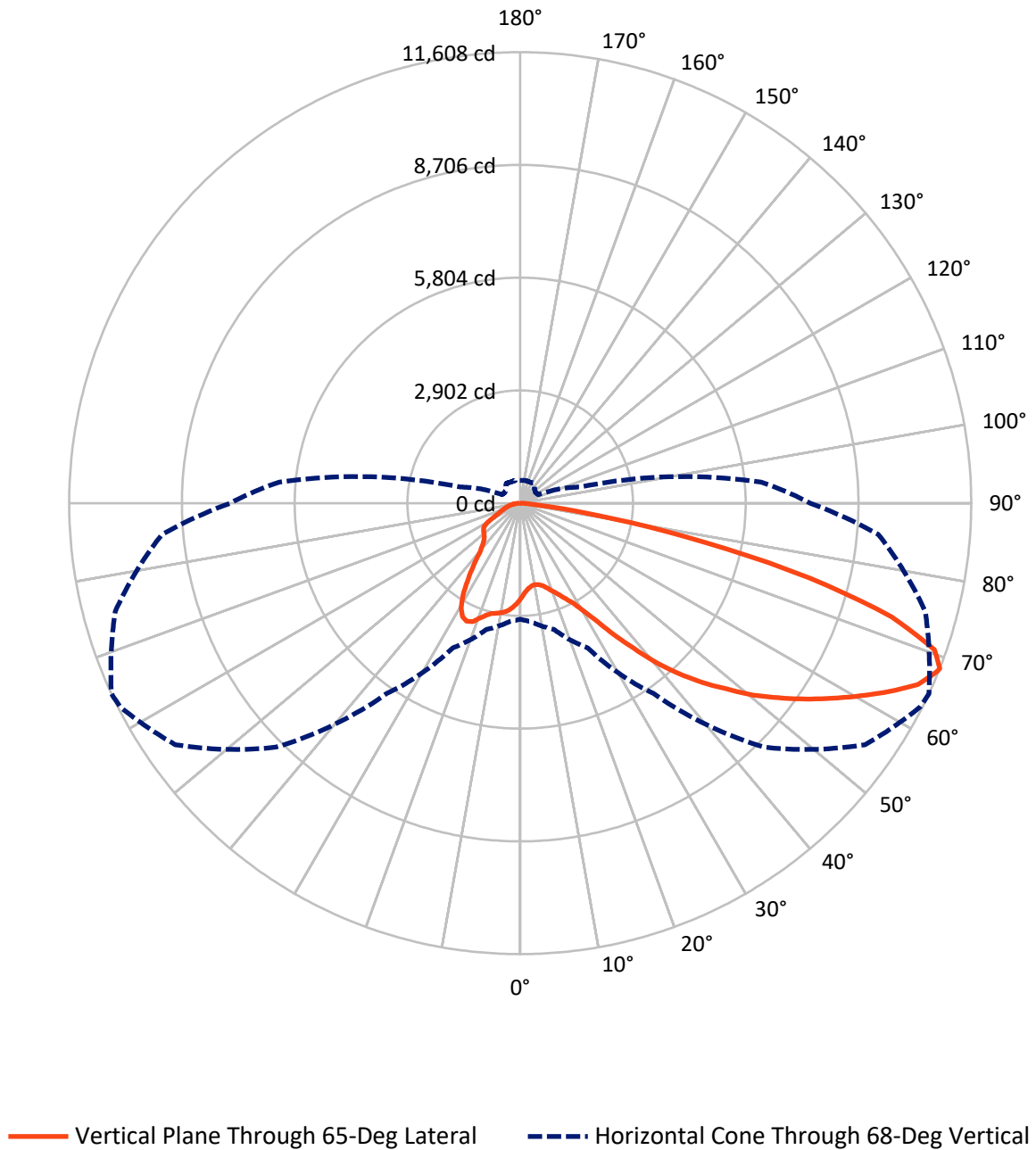


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4696.0	0.0	4696.0
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	14458.0	0.0	14458.0
	% Fixture	75.5	0.0	75.5
Total	Lumens	19154.0	0.0	19154.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.9	1.2
10°-20°	761.6	4.0
20°-30°	1378.5	7.2
30°-40°	2168.6	11.3
40°-50°	3229.8	16.9
50°-60°	4236.9	22.1
60°-70°	4633.3	24.2
70°-80°	2292.7	12.0
80°-90°	218.7	1.1
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°	19154.0	100.0
0°-180°	19154.0	100.0

Coefficient of Utilization



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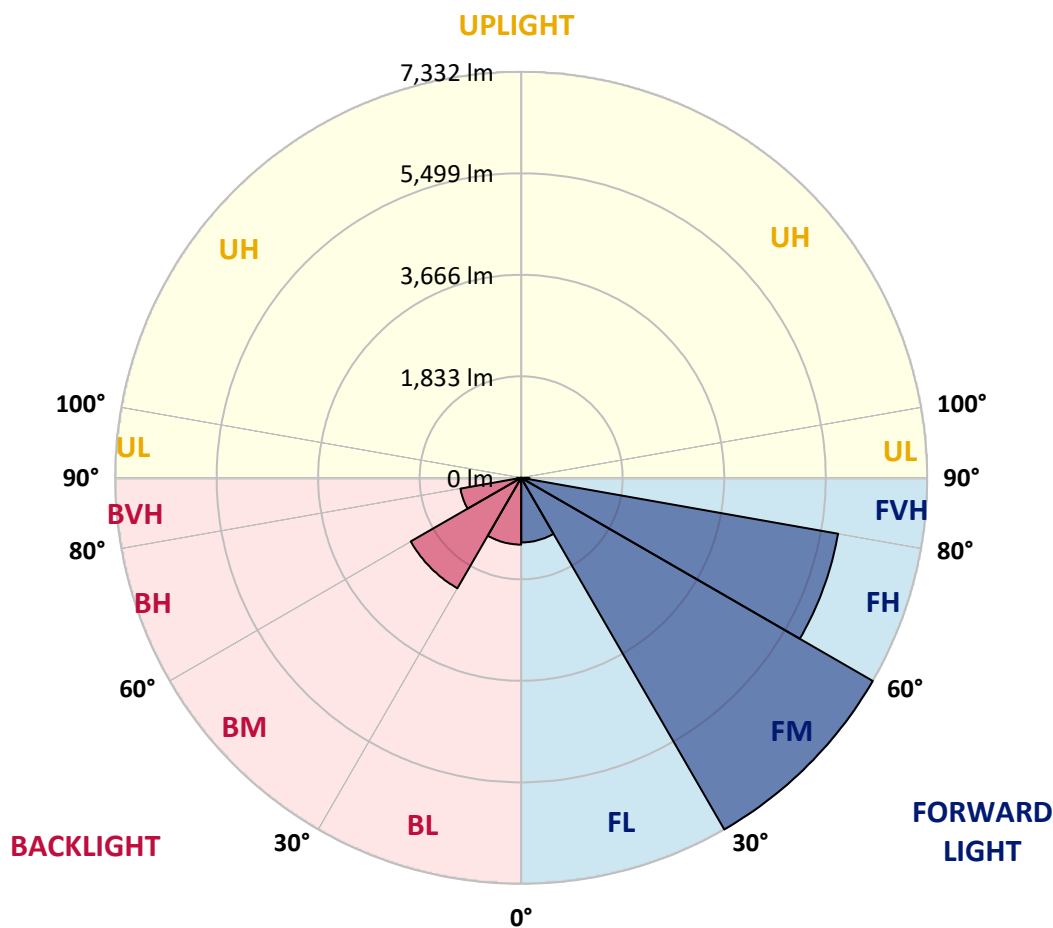
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1167.6	6.1			
FM	(30°-60°)	7331.9	38.3			
FH	(60°-80°)	5811.4	30.3			G3/7500
FVH	(80°-90°)	147.1	0.8			G2/225
BL	(0°-30°)	1206.4	6.3	B3/2500		
BM	(30°-60°)	2303.3	12.0	B2/2500		
BH	(60°-80°)	1114.6	5.8	B3/2500		G3/2500
BVH	(80°-90°)	71.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2447.6	2447.6	2447.6	2447.6	2447.6	2447.6	2447.6	2447.6	2447.6	2447.6	2447.6
2.5°	2136.4	2131.5	2143.9	2156.2	2183.4	2215.5	2259.9	2297.0	2301.9	2371.1	2425.4
5°	2010.5	2003.1	2015.4	2030.2	2042.6	2082.1	2129.0	2183.4	2205.6	2306.9	2422.9
7.5°	2022.8	2020.4	2025.3	2020.4	2020.4	2037.6	2069.8	2124.1	2148.8	2269.8	2435.3
10°	2094.5	2099.4	2101.9	2087.0	2072.2	2064.8	2074.7	2111.7	2129.0	2272.3	2489.6
12.5°	2213.0	2220.4	2222.9	2195.7	2176.0	2143.9	2126.6	2141.4	2153.7	2297.0	2566.2
15°	2373.6	2378.5	2361.2	2343.9	2294.5	2255.0	2213.0	2200.7	2205.6	2348.9	2652.6
17.5°	2561.3	2553.9	2553.9	2511.9	2447.6	2385.9	2316.7	2306.9	2306.9	2432.8	2776.1
20°	2766.3	2773.7	2751.4	2694.6	2630.4	2534.1	2464.9	2420.5	2425.4	2529.2	2926.8
22.5°	3062.6	3075.0	3015.7	2934.2	2835.4	2724.3	2625.5	2553.9	2556.3	2655.1	3082.4
25°	3381.3	3386.2	3349.2	3240.5	3107.1	2949.0	2818.1	2726.7	2724.3	2795.9	3282.5
27.5°	3707.3	3729.5	3655.4	3551.7	3428.2	3230.6	3057.7	2934.2	2914.5	3010.8	3531.9
30°	4043.2	4070.4	3998.7	3897.5	3744.3	3576.4	3371.4	3228.1	3215.8	3344.2	3865.4
32.5°	4381.6	4389.0	4332.2	4248.2	4109.9	3951.8	3786.3	3628.2	3615.9	3825.8	4297.6
35°	4658.2	4680.4	4640.9	4621.1	4519.9	4374.2	4213.6	4122.2	4154.3	4423.6	4858.2
37.5°	4991.6	5013.9	4969.4	4964.5	4932.3	4806.4	4695.2	4702.6	4734.8	5100.3	5448.5
40°	5473.2	5497.9	5384.3	5334.9	5334.9	5211.4	5174.4	5349.8	5391.7	5767.2	6063.5
42.5°	5880.8	5920.3	5853.6	5821.5	5725.2	5638.7	5683.2	5930.2	6001.8	6404.4	6599.5
45°	6078.4	6108.0	6187.0	6280.9	6187.0	6036.4	6204.3	6483.4	6584.7	6992.2	7135.5
47.5°	6184.6	6211.7	6303.1	6555.1	6619.3	6493.3	6730.4	7078.7	7147.8	7575.1	7646.7
50°	6199.4	6285.8	6404.4	6656.3	6950.2	6967.5	7259.0	7683.8	7765.3	8148.1	8096.3
52.5°	6078.4	6112.9	6357.5	6782.3	7108.3	7404.7	7834.5	8264.2	8323.5	8686.6	8493.9
55°	5880.8	5930.2	6174.7	6752.6	7261.4	7819.6	8419.8	8834.8	8901.4	9210.2	8861.9
57.5°	5702.9	5727.6	5989.5	6666.2	7414.6	8234.6	8941.0	9430.0	9474.4	9669.6	9133.6
60°	5505.4	5532.5	5794.3	6481.0	7528.2	8548.2	9484.3	10030.2	10069.7	10153.7	9449.8
62.5°	4994.1	5065.7	5394.2	6174.7	7498.5	8906.4	10064.7	10622.9	10672.3	10581.0	9699.2
65°	4055.5	4156.8	4559.4	5480.7	7221.9	9138.5	10539.0	11168.8	11252.8	10902.0	9765.9
67.5°	3149.1	3220.7	3544.3	4349.5	6251.3	9022.5	10845.2	11544.2	11568.9	10850.2	9395.4
68°	2986.1	3057.7	3366.4	4112.3	5982.0	8884.1	10837.8	11554.1	11608.4	10793.4	9252.2
70°	2284.6	2366.1	2660.1	3257.8	4821.2	8004.9	10385.8	11317.0	11309.6	10106.7	8363.0
72.5°	1427.6	1474.5	1677.0	2054.9	3188.6	6090.7	8815.0	9980.8	10000.5	8239.5	6414.3
75°	906.4	906.4	896.6	995.4	1635.1	3470.2	6552.6	7683.8	7698.6	5769.6	4043.2
77.5°	787.9	765.7	659.5	558.2	652.0	1348.6	3877.7	4962.0	4880.5	3107.1	1919.1
80°	664.4	627.3	540.9	449.5	419.9	422.3	1489.3	2519.3	2410.6	1118.9	637.2
82.5°	479.2	447.0	407.5	353.2	323.6	251.9	311.2	728.6	711.3	323.6	207.5
85°	259.3	234.6	229.7	232.2	195.1	155.6	130.9	160.5	160.5	140.8	118.6
87.5°	91.4	66.7	79.0	88.9	76.6	64.2	51.9	61.7	64.2	61.7	56.8
90°	0.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2447.6	2447.6	2447.6	2447.6	2447.6	2447.6	2447.6	2447.6	2447.6	2447.6	2447.6
2.5°	2457.5	2482.2	2541.5	2593.4	2630.4	2662.5	2679.8	2687.2	2704.5	2707.0	2702.0
5°	2477.3	2541.5	2630.4	2707.0	2749.0	2766.3	2771.2	2773.7	2766.3	2771.2	2766.3
7.5°	2529.2	2610.7	2736.6	2803.3	2810.7	2783.6	2786.0	2776.1	2786.0	2795.9	2795.9
10°	2608.2	2711.9	2830.5	2855.2	2823.1	2808.3	2837.9	2897.2	2916.9	2944.1	2944.1
12.5°	2711.9	2835.4	2919.4	2897.2	2867.5	2916.9	3003.4	3062.6	3082.4	3092.3	3084.9
15°	2830.5	2963.9	3005.8	2931.7	2986.1	3092.3	3121.9	3087.3	3037.9	3015.7	3028.1
17.5°	2981.1	3092.3	3067.6	3018.2	3141.7	3156.5	3060.2	2949.0	2870.0	2840.4	2860.1
20°	3139.2	3235.5	3121.9	3144.2	3220.7	3062.6	2879.9	2736.6	2667.5	2655.1	2674.9
22.5°	3307.2	3368.9	3176.3	3289.9	3176.3	2855.2	2635.4	2561.3	2544.0	2563.7	2581.0
25°	3497.3	3489.9	3270.1	3334.3	3010.8	2600.8	2469.9	2464.9	2464.9	2477.3	2502.0
27.5°	3712.2	3596.1	3364.0	3275.1	2724.3	2390.8	2366.1	2368.6	2361.2	2363.7	2376.0
30°	3961.7	3739.4	3467.7	3079.9	2403.2	2232.8	2222.9	2215.5	2198.2	2193.3	2198.2
32.5°	4275.4	3890.1	3573.9	2758.9	2121.6	2069.8	2064.8	2025.3	1983.3	1978.4	1995.7
35°	4673.0	4164.2	3628.2	2356.3	1889.5	1887.0	1869.7	1808.0	1753.6	1753.6	1741.3
37.5°	5127.5	4517.4	3650.5	1963.6	1696.8	1709.2	1659.8	1580.7	1538.7	1514.0	1521.4
40°	5591.8	4920.0	3648.0	1620.2	1528.9	1531.3	1494.3	1398.0	1294.2	1232.5	1247.3
42.5°	6038.8	5285.5	3583.8	1437.5	1393.0	1385.6	1356.0	1225.1	1138.6	1089.2	1091.7
45°	6397.0	5663.4	3485.0	1328.8	1269.5	1281.9	1215.2	1136.1	1057.1	1012.6	1010.2
47.5°	6755.1	5949.9	3326.9	1262.1	1178.1	1155.9	1128.7	1074.4	1015.1	965.7	968.2
50°	7081.1	6194.5	3178.7	1217.6	1094.2	1037.3	1042.3	1010.2	958.3	913.9	911.4
52.5°	7310.8	6355.0	3097.2	1193.0	992.9	931.1	948.4	931.1	881.7	849.6	847.2
55°	7540.5	6478.5	3124.4	1160.8	881.7	832.3	862.0	857.0	829.9	820.0	822.5
57.5°	7725.8	6572.3	3220.7	1101.6	775.5	745.9	795.3	780.5	760.7	763.2	763.2
60°	7906.1	6693.4	3334.3	965.7	684.2	686.6	733.6	706.4	694.0	716.3	718.7
62.5°	8093.8	6824.3	3240.5	768.1	605.1	622.4	676.7	654.5	659.5	691.6	701.4
65°	8071.6	6811.9	2640.3	629.8	536.0	570.5	652.0	644.6	647.1	659.5	664.4
67.5°	7617.1	6377.2	1815.4	536.0	486.6	528.6	632.3	602.7	605.1	597.7	600.2
68°	7464.0	6224.1	1600.5	521.1	476.7	518.7	622.4	595.2	597.7	590.3	587.8
70°	6629.2	5330.0	1012.6	459.4	442.1	491.5	573.0	563.1	560.7	555.7	555.7
72.5°	5053.4	3934.5	533.5	397.7	402.6	449.5	511.3	531.0	518.7	521.1	536.0
75°	3346.7	2366.1	370.5	340.8	353.2	385.3	454.5	494.0	481.6	489.0	481.6
77.5°	1770.9	1274.5	296.4	289.0	289.0	311.2	375.4	437.2	437.2	432.2	424.8
80°	580.4	449.5	237.1	227.2	232.2	244.5	301.3	358.1	365.5	355.7	350.7
82.5°	195.1	207.5	177.8	165.5	170.4	180.3	227.2	274.2	276.6	256.9	251.9
85°	121.0	138.3	111.1	108.7	108.7	111.1	138.3	150.7	138.3	123.5	128.4
87.5°	56.8	69.2	51.9	44.5	37.0	32.1	24.7	9.9	9.9	4.9	4.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)