

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: P1210495

Luminaire Tested: **ARCH3-140-730-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210495
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: ARCH3-140-730-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1110mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19828 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 142.5
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

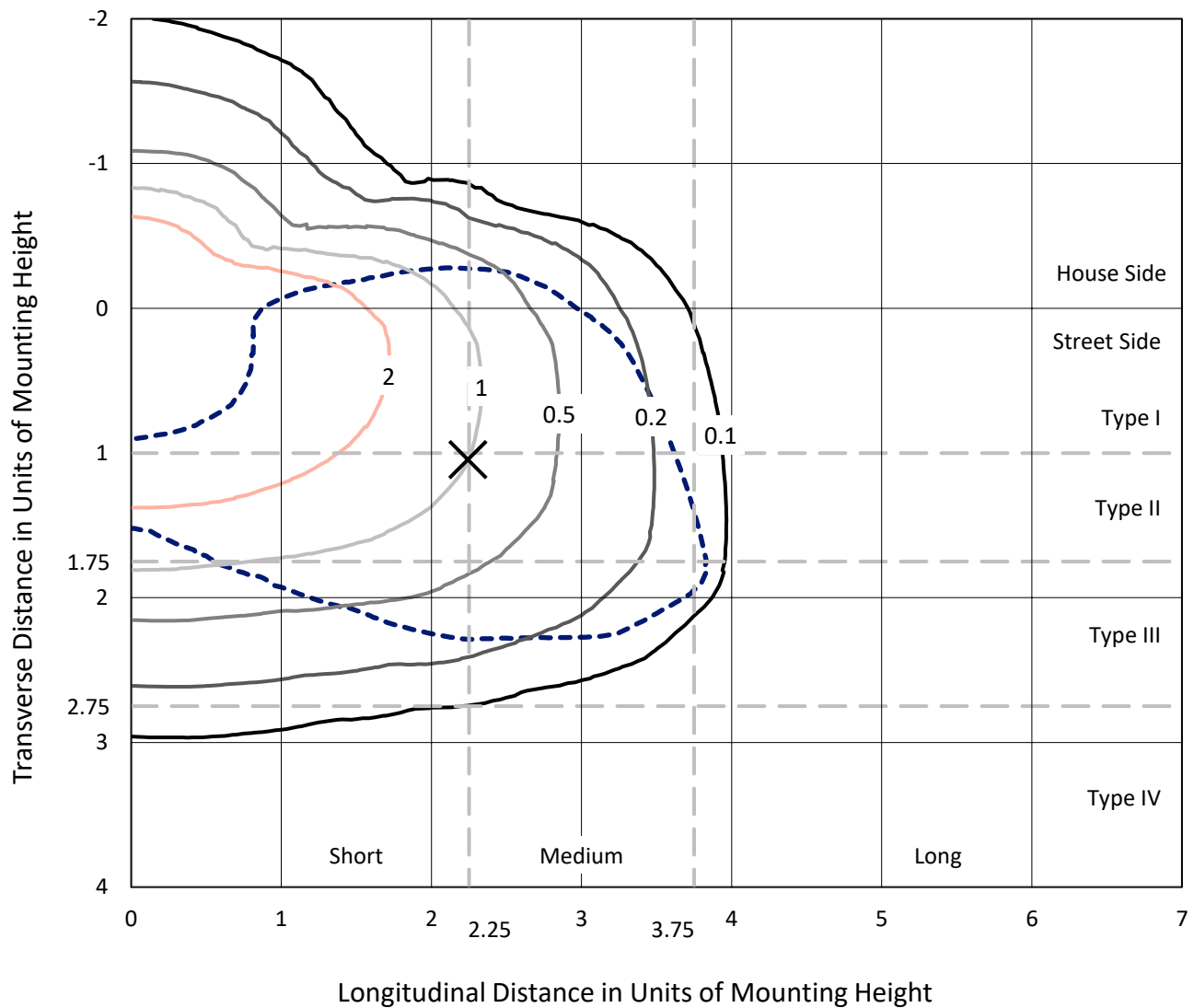


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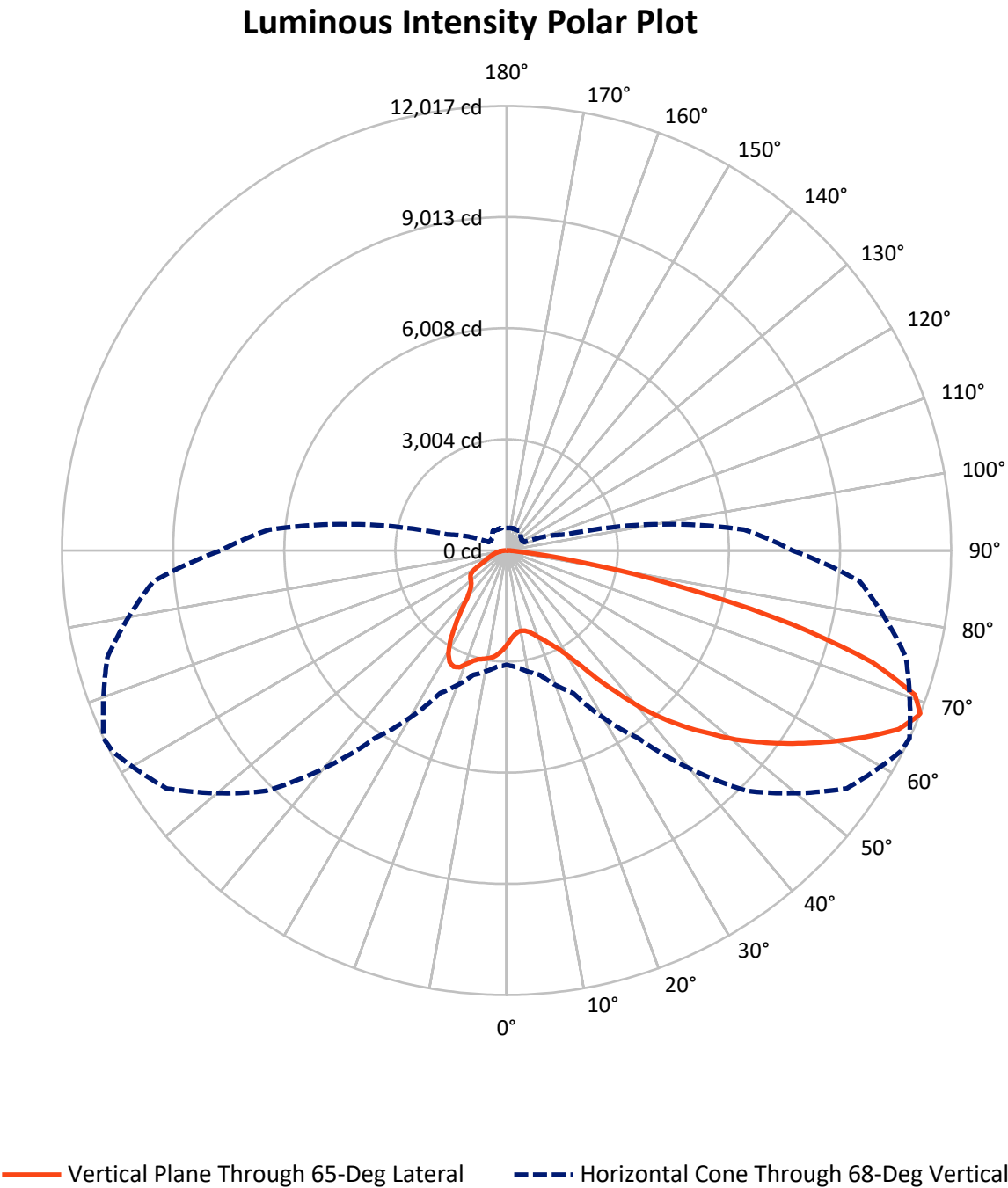
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4861.2	0.0	4861.2
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	14966.8	0.0	14966.8
	% Fixture	75.5	0.0	75.5
Total	Lumens	19828.0	0.0	19828.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.2	1.2
10°-20°	788.4	4.0
20°-30°	1427.0	7.2
30°-40°	2244.9	11.3
40°-50°	3343.5	16.9
50°-60°	4386.0	22.1
60°-70°	4796.3	24.2
70°-80°	2373.4	12.0
80°-90°	226.4	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°	19828.0	100.0
0°-180°	19828.0	100.0

Coefficient of Utilization



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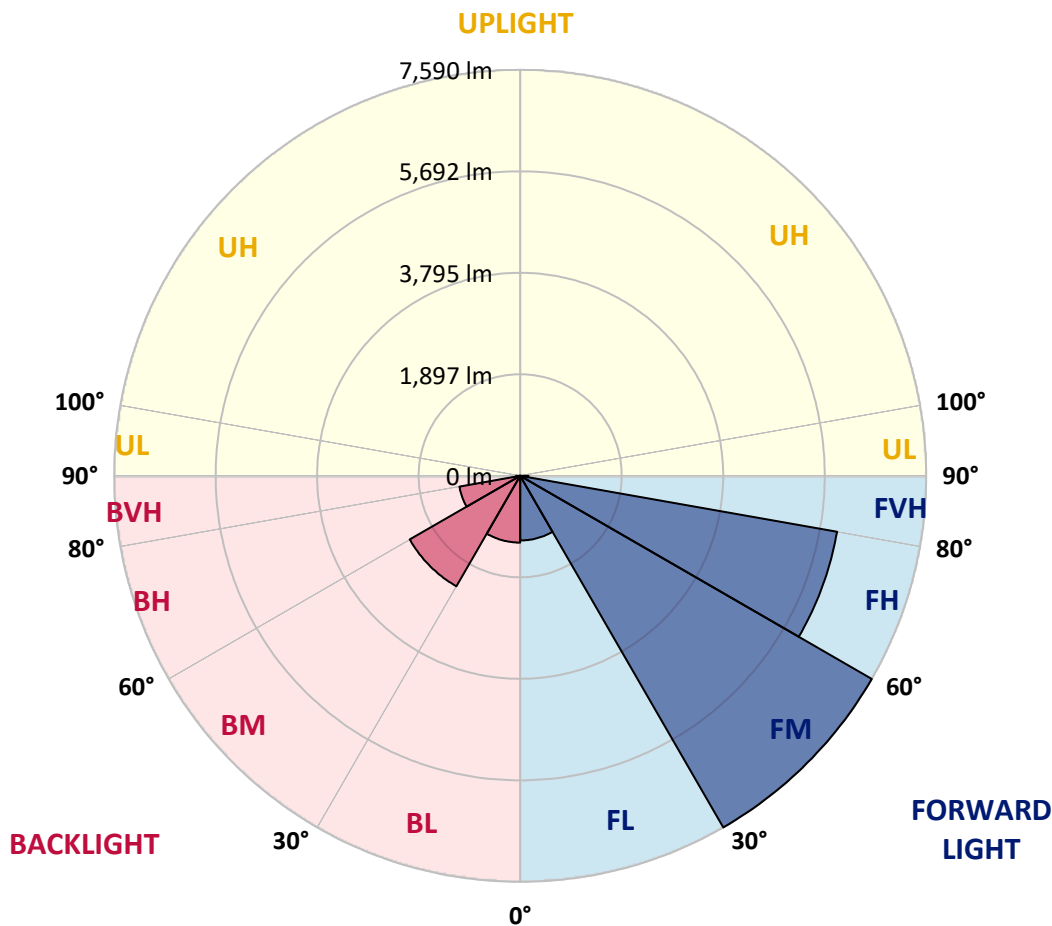
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1208.7	6.1			
FM	(30°-60°)	7589.9	38.3			
FH	(60°-80°)	6015.9	30.3			G3/7500
FVH	(80°-90°)	152.3	0.8			G2/225
BL	(0°-30°)	1248.9	6.3	B3/2500		
BM	(30°-60°)	2384.4	12.0	B2/2500		
BH	(60°-80°)	1153.8	5.8	B3/2500		G3/2500
BVH	(80°-90°)	74.1	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°	2533.8	2533.8	2533.8	2533.8	2533.8	2533.8	2533.8	2533.8	2533.8	2533.8	2533.8
2.5°	2211.6	2206.5	2219.3	2232.1	2260.2	2293.4	2339.5	2377.8	2382.9	2454.5	2510.8
5°	2081.2	2073.6	2086.3	2101.7	2114.5	2155.4	2204.0	2260.2	2283.2	2388.0	2508.2
7.5°	2094.0	2091.5	2096.6	2091.5	2091.5	2109.4	2142.6	2198.8	2224.4	2349.7	2521.0
10°	2168.2	2173.3	2175.8	2160.5	2145.1	2137.5	2147.7	2186.1	2204.0	2352.2	2577.2
12.5°	2290.9	2298.6	2301.1	2273.0	2252.5	2219.3	2201.4	2216.7	2229.5	2377.8	2656.5
15°	2457.1	2462.2	2444.3	2426.4	2375.3	2334.3	2290.9	2278.1	2283.2	2431.5	2746.0
17.5°	2651.4	2643.7	2643.7	2600.3	2533.8	2469.9	2398.3	2388.0	2388.0	2518.4	2873.8
20°	2863.6	2871.3	2848.3	2789.5	2723.0	2623.3	2551.7	2505.7	2510.8	2618.2	3029.8
22.5°	3170.4	3183.2	3121.8	3037.5	2935.2	2820.1	2717.9	2643.7	2646.3	2748.5	3190.9
25°	3500.2	3505.4	3467.0	3354.5	3216.4	3052.8	2917.3	2822.7	2820.1	2894.3	3398.0
27.5°	3837.7	3860.8	3784.0	3676.7	3548.8	3344.3	3165.3	3037.5	3017.0	3116.7	3656.2
30°	4185.5	4213.6	4139.4	4034.6	3876.1	3702.2	3490.0	3341.7	3328.9	3461.9	4001.4
32.5°	4535.7	4543.4	4484.6	4397.7	4254.5	4090.9	3919.6	3755.9	3743.1	3960.5	4448.8
35°	4822.1	4845.1	4804.2	4783.8	4678.9	4528.1	4361.9	4267.3	4300.5	4579.2	5029.2
37.5°	5167.3	5190.3	5144.3	5139.1	5105.9	4975.5	4860.5	4868.1	4901.4	5279.8	5640.3
40°	5665.8	5691.4	5573.8	5522.7	5522.7	5394.8	5356.5	5538.0	5581.5	5970.1	6276.9
42.5°	6087.7	6128.6	6059.6	6026.4	5926.6	5837.1	5883.2	6138.8	6213.0	6629.8	6831.7
45°	6292.3	6322.9	6404.8	6501.9	6404.8	6248.8	6422.7	6711.6	6816.4	7238.3	7386.6
47.5°	6402.2	6430.3	6524.9	6785.7	6852.2	6721.8	6967.2	7327.8	7399.3	7841.7	7915.8
50°	6417.5	6507.0	6629.8	6890.5	7194.8	7212.7	7514.4	7954.2	8038.5	8434.8	8381.2
52.5°	6292.3	6328.1	6581.2	7020.9	7358.4	7665.3	8110.1	8555.0	8616.4	8992.2	8792.8
55°	6087.7	6138.8	6392.0	6990.3	7517.0	8094.8	8716.1	9145.6	9214.7	9534.3	9173.8
57.5°	5903.6	5929.2	6200.2	6900.8	7675.5	8524.3	9255.6	9761.8	9807.8	10009.8	9455.0
60°	5699.1	5727.2	5998.2	6709.0	7793.1	8849.0	9818.1	10383.1	10424.0	10511.0	9782.3
62.5°	5169.8	5244.0	5584.0	6392.0	7762.4	9219.8	10418.9	10996.7	11047.9	10953.3	10040.5
65°	4198.2	4303.1	4719.8	5673.5	7476.0	9460.1	10909.8	11561.8	11648.7	11285.7	10109.5
67.5°	3259.9	3334.1	3669.0	4502.5	6471.2	9339.9	11226.9	11950.4	11976.0	11232.0	9726.0
68°	3091.2	3165.3	3484.9	4257.1	6192.5	9196.8	11219.2	11960.7	12016.9	11173.2	9577.7
70°	2365.0	2449.4	2753.7	3372.4	4990.9	8286.6	10751.3	11715.2	11707.5	10462.4	8657.3
72.5°	1477.8	1526.4	1736.1	2127.2	3300.8	6305.0	9125.2	10332.0	10352.4	8529.4	6640.0
75°	938.3	938.3	928.1	1030.4	1692.6	3592.3	6783.2	7954.2	7969.5	5972.7	4185.5
77.5°	815.6	792.6	682.7	577.8	675.0	1396.0	4014.2	5136.6	5052.2	3216.4	1986.6
80°	687.8	649.4	559.9	465.3	434.7	437.2	1541.7	2607.9	2495.4	1158.2	659.7
82.5°	496.0	462.8	421.9	365.6	334.9	260.8	322.2	754.3	736.4	334.9	214.8
85°	268.5	242.9	237.8	240.3	202.0	161.1	135.5	166.2	166.2	145.7	122.7
87.5°	94.6	69.0	81.8	92.0	79.3	66.5	53.7	63.9	66.5	63.9	58.8
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°	2533.8	2533.8	2533.8	2533.8	2533.8	2533.8	2533.8	2533.8	2533.8	2533.8	2533.8
2.5°	2544.0	2569.6	2630.9	2684.6	2723.0	2756.2	2774.1	2781.8	2799.7	2802.2	2797.1
5°	2564.5	2630.9	2723.0	2802.2	2845.7	2863.6	2868.7	2871.3	2863.6	2868.7	2863.6
7.5°	2618.2	2702.5	2832.9	2902.0	2909.6	2881.5	2884.1	2873.8	2884.1	2894.3	2894.3
10°	2700.0	2807.4	2930.1	2955.6	2922.4	2907.1	2937.7	2999.1	3019.6	3047.7	3047.7
12.5°	2807.4	2935.2	3022.1	2999.1	2968.4	3019.6	3109.1	3170.4	3190.9	3201.1	3193.4
15°	2930.1	3068.1	3111.6	3034.9	3091.2	3201.1	3231.8	3196.0	3144.8	3121.8	3134.6
17.5°	3086.0	3201.1	3175.5	3124.4	3252.2	3267.6	3167.9	3052.8	2971.0	2940.3	2960.8
20°	3249.7	3349.4	3231.8	3254.8	3334.1	3170.4	2981.2	2832.9	2761.3	2748.5	2769.0
22.5°	3423.5	3487.5	3288.0	3405.6	3288.0	2955.6	2728.1	2651.4	2633.5	2653.9	2671.8
25°	3620.4	3612.7	3385.2	3451.7	3116.7	2692.3	2556.8	2551.7	2551.7	2564.5	2590.0
27.5°	3842.9	3722.7	3482.3	3390.3	2820.1	2475.0	2449.4	2452.0	2444.3	2446.8	2459.6
30°	4101.1	3871.0	3589.7	3188.3	2487.8	2311.3	2301.1	2293.4	2275.5	2270.4	2275.5
32.5°	4425.8	4026.9	3699.7	2855.9	2196.3	2142.6	2137.5	2096.6	2053.1	2048.0	2065.9
35°	4837.4	4310.7	3755.9	2439.2	1955.9	1953.4	1935.5	1871.6	1815.3	1815.3	1802.5
37.5°	5307.9	4676.4	3778.9	2032.6	1756.5	1769.3	1718.2	1636.3	1592.9	1567.3	1575.0
40°	5788.6	5093.1	3776.4	1677.3	1582.7	1585.2	1546.9	1447.1	1339.8	1275.8	1291.2
42.5°	6251.3	5471.5	3709.9	1488.1	1442.0	1434.4	1403.7	1268.2	1178.7	1127.5	1130.1
45°	6622.1	5862.7	3607.6	1375.6	1314.2	1327.0	1257.9	1176.1	1094.3	1048.3	1045.7
47.5°	6992.8	6159.3	3444.0	1306.5	1219.6	1196.6	1168.5	1112.2	1050.8	999.7	1002.3
50°	7330.3	6412.4	3290.6	1260.5	1132.7	1073.9	1079.0	1045.7	992.0	946.0	943.5
52.5°	7568.1	6578.6	3206.2	1234.9	1027.8	963.9	981.8	963.9	912.8	879.5	877.0
55°	7805.9	6706.5	3234.3	1201.7	912.8	861.6	892.3	887.2	859.1	848.9	851.4
57.5°	7997.6	6803.6	3334.1	1140.3	802.8	772.2	823.3	807.9	787.5	790.0	790.0
60°	8184.3	6928.9	3451.7	999.7	708.2	710.8	759.4	731.2	718.5	741.5	744.0
62.5°	8378.6	7064.4	3354.5	795.2	626.4	644.3	700.6	677.5	682.7	715.9	726.1
65°	8355.6	7051.6	2733.2	652.0	554.8	590.6	675.0	667.3	669.9	682.7	687.8
67.5°	7885.1	6601.6	1879.2	554.8	503.7	547.2	654.5	623.9	626.4	618.7	621.3
68°	7726.6	6443.1	1656.8	539.5	493.5	536.9	644.3	616.2	618.7	611.1	608.5
70°	6862.4	5517.5	1048.3	475.6	457.7	508.8	593.2	582.9	580.4	575.3	575.3
72.5°	5231.2	4073.0	552.3	411.6	416.8	465.3	529.3	549.7	536.9	539.5	554.8
75°	3464.4	2449.4	383.5	352.8	365.6	398.9	470.4	511.4	498.6	506.2	498.6
77.5°	1833.2	1319.3	306.8	299.1	299.1	322.2	388.6	452.6	452.6	447.4	439.8
80°	600.8	465.3	245.5	235.2	240.3	253.1	311.9	370.7	378.4	368.2	363.1
82.5°	202.0	214.8	184.1	171.3	176.4	186.6	235.2	283.8	286.4	265.9	260.8
85°	125.3	143.2	115.1	112.5	112.5	115.1	143.2	156.0	143.2	127.8	133.0
87.5°	58.8	71.6	53.7	46.0	38.4	33.2	25.6	10.2	10.2	5.1	5.1
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)