

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: P1210583

Luminaire Tested: **ARCH3-170-722-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210583
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: ARCH3-170-722-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1310mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19592 lumens
Efficiency: N/A
Efficacy: 114.8 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): 170.6
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



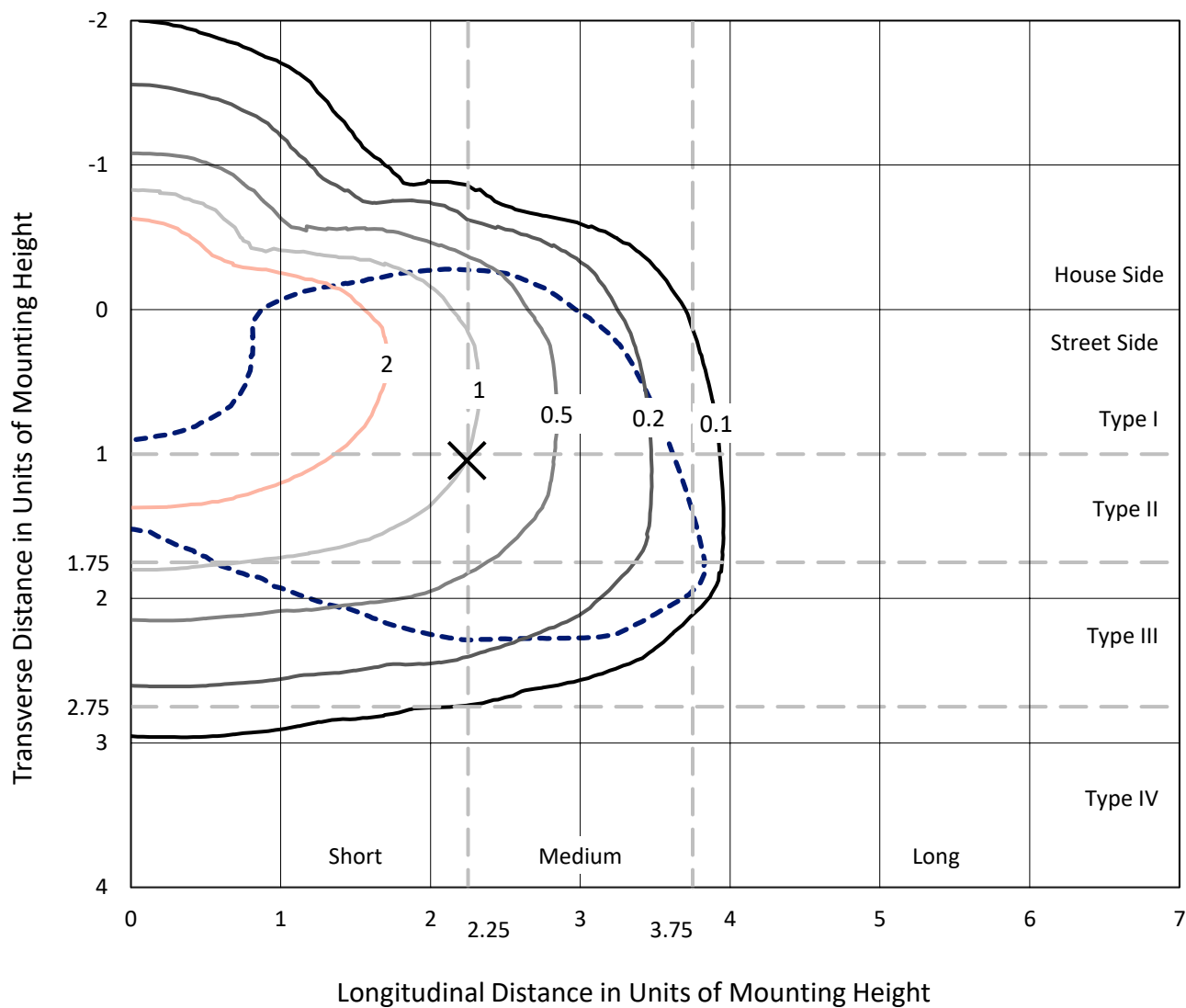
REPORT NUMBER: P1210583

CATALOG NUMBER: ARCH3-170-722-U-T3RE

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



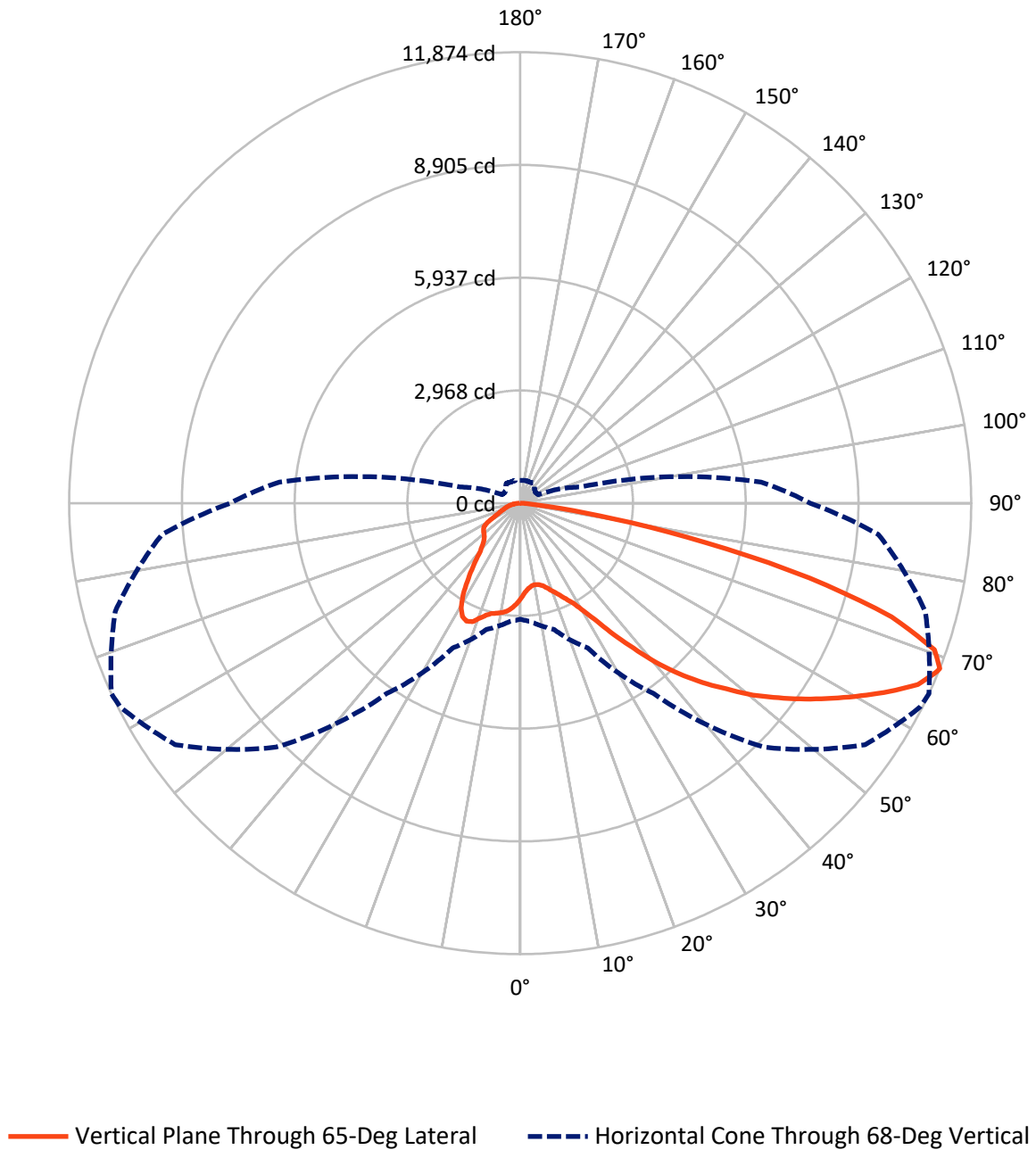
Based on 25 foot mounting height. Maximum calculated value = 4.6 fc

Type III - Short - N/A

REPORT NUMBER: P1210583

CATALOG NUMBER: ARCH3-170-722-U-T3RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1210583

CATALOG NUMBER: ARCH3-170-722-U-T3RE

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4803.4	0.0	4803.4
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	14788.6	0.0	14788.6
	% Fixture	75.5	0.0	75.5
Total	Lumens	19592.0	0.0	19592.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.3	1.2
10°-20°	779.1	4.0
20°-30°	1410.0	7.2
30°-40°	2218.1	11.3
40°-50°	3303.7	16.9
50°-60°	4333.8	22.1
60°-70°	4739.2	24.2
70°-80°	2345.1	12.0
80°-90°	223.7	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°	19592.0	100.0
0°-180°	19592.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210583

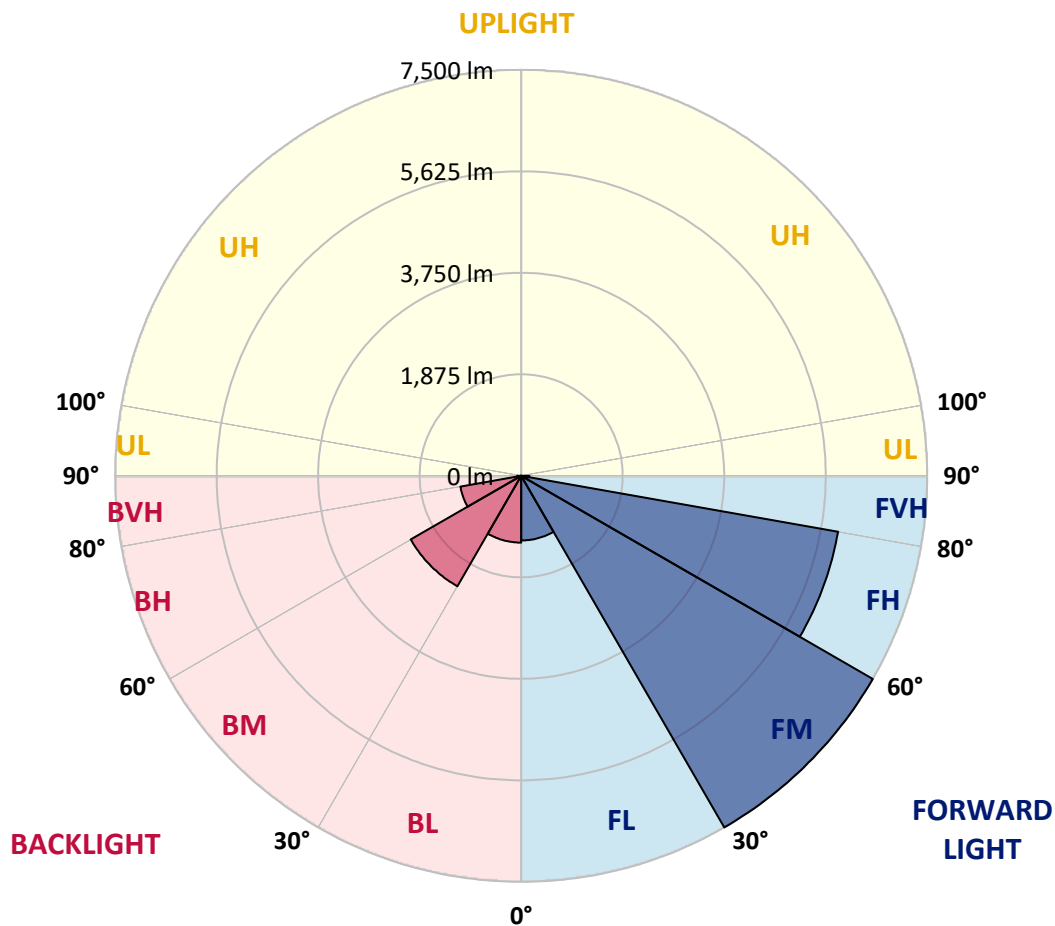
CATALOG NUMBER: ARCH3-170-722-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1194.4	6.1			
FM	(30°-60°)	7499.5	38.3			
FH	(60°-80°)	5944.3	30.3			G3/7500
FVH	(80°-90°)	150.5	0.8			G2/225
BL	(0°-30°)	1234.0	6.3	B3/2500		
BM	(30°-60°)	2356.0	12.0	B2/2500		
BH	(60°-80°)	1140.1	5.8	B3/2500		G3/2500
BVH	(80°-90°)	73.2	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



REPORT NUMBER: P1210583

CATALOG NUMBER: ARCH3-170-722-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2503.6	2503.6	2503.6	2503.6	2503.6	2503.6	2503.6	2503.6	2503.6	2503.6	2503.6
2.5°	2185.3	2180.2	2192.9	2205.5	2233.3	2266.1	2311.6	2349.5	2354.6	2425.3	2480.9
5°	2056.5	2048.9	2061.5	2076.7	2089.3	2129.7	2177.7	2233.3	2256.0	2359.6	2478.4
7.5°	2069.1	2066.6	2071.6	2066.6	2066.6	2084.2	2117.1	2172.7	2197.9	2321.7	2491.0
10°	2142.4	2147.4	2149.9	2134.8	2119.6	2112.0	2122.1	2160.0	2177.7	2324.2	2546.6
12.5°	2263.6	2271.2	2273.7	2245.9	2225.7	2192.9	2175.2	2190.4	2203.0	2349.5	2624.9
15°	2427.8	2432.9	2415.2	2397.5	2347.0	2306.6	2263.6	2251.0	2256.0	2402.6	2713.3
17.5°	2619.8	2612.3	2612.3	2569.3	2503.6	2440.5	2369.7	2359.6	2359.6	2488.5	2839.6
20°	2829.5	2837.1	2814.4	2756.3	2690.6	2592.0	2521.3	2475.8	2480.9	2587.0	2993.7
22.5°	3132.7	3145.3	3084.7	3001.3	2900.3	2786.6	2685.5	2612.3	2614.8	2715.8	3152.9
25°	3458.6	3463.6	3425.7	3314.6	3178.2	3016.5	2882.6	2789.1	2786.6	2859.8	3357.5
27.5°	3792.1	3814.8	3739.0	3632.9	3506.6	3304.5	3127.6	3001.3	2981.1	3079.6	3612.7
30°	4135.6	4163.4	4090.2	3986.6	3830.0	3658.2	3448.5	3301.9	3289.3	3420.7	3953.7
32.5°	4481.8	4489.3	4431.2	4345.3	4203.9	4042.2	3872.9	3711.2	3698.6	3913.3	4395.9
35°	4764.7	4787.4	4747.0	4726.8	4623.2	4474.2	4310.0	4216.5	4249.3	4524.7	4969.3
37.5°	5105.8	5128.5	5083.0	5078.0	5045.1	4916.3	4802.6	4810.2	4843.0	5216.9	5573.1
40°	5598.4	5623.7	5507.5	5456.9	5456.9	5330.6	5292.7	5472.1	5515.0	5899.0	6202.2
42.5°	6015.3	6055.7	5987.5	5954.6	5856.1	5767.7	5813.1	6065.8	6139.0	6550.8	6750.4
45°	6217.4	6247.7	6328.5	6424.5	6328.5	6174.4	6346.2	6631.7	6735.3	7152.1	7298.6
47.5°	6326.0	6353.8	6447.3	6705.0	6770.6	6641.8	6884.3	7240.5	7311.3	7748.3	7821.6
50°	6341.2	6429.6	6550.8	6808.5	7109.2	7126.9	7425.0	7859.5	7942.9	8334.5	8281.4
52.5°	6217.4	6252.7	6502.8	6937.4	7270.9	7574.0	8013.6	8453.2	8513.8	8885.2	8688.1
55°	6015.3	6065.8	6315.9	6907.1	7427.5	7998.4	8612.3	9036.8	9105.0	9420.8	9064.6
57.5°	5833.4	5858.6	6126.4	6818.6	7584.1	8422.9	9145.4	9645.6	9691.1	9890.7	9342.5
60°	5631.2	5659.0	5926.8	6629.2	7700.3	8743.7	9701.2	10259.5	10300.0	10385.9	9665.8
62.5°	5108.3	5181.6	5517.6	6315.9	7670.0	9110.0	10294.9	10865.9	10916.4	10822.9	9921.0
65°	4148.3	4251.9	4663.7	5606.0	7387.1	9347.5	10780.0	11424.2	11510.1	11151.3	9989.2
67.5°	3221.1	3294.4	3625.3	4448.9	6394.2	9228.8	11093.2	11808.2	11833.5	11098.3	9610.3
68°	3054.4	3127.6	3443.4	4206.4	6118.8	9087.3	11085.7	11818.3	11873.9	11040.2	9463.7
70°	2336.9	2420.2	2720.9	3332.3	4931.4	8187.9	10623.3	11575.8	11568.2	10337.9	8554.2
72.5°	1460.2	1508.2	1715.4	2101.9	3261.5	6230.0	9016.6	10209.0	10229.2	8427.9	6560.9
75°	927.2	927.2	917.1	1018.1	1672.4	3549.5	6702.4	7859.5	7874.7	5901.6	4135.6
77.5°	805.9	783.2	674.5	571.0	667.0	1379.4	3966.4	5075.5	4992.1	3178.2	1963.0
80°	679.6	641.7	553.3	459.8	429.5	432.0	1523.4	2576.9	2465.7	1144.4	651.8
82.5°	490.1	457.3	416.8	361.3	331.0	257.7	318.3	745.3	727.6	331.0	212.2
85°	265.3	240.0	235.0	237.5	199.6	159.2	133.9	164.2	164.2	144.0	121.3
87.5°	93.5	68.2	80.8	90.9	78.3	65.7	53.1	63.2	65.7	63.2	58.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1210583

CATALOG NUMBER: ARCH3-170-722-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2503.6	2503.6	2503.6	2503.6	2503.6	2503.6	2503.6	2503.6	2503.6	2503.6	2503.6
2.5°	2513.7	2539.0	2599.6	2652.7	2690.6	2723.4	2741.1	2748.7	2766.4	2768.9	2763.8
5°	2533.9	2599.6	2690.6	2768.9	2811.8	2829.5	2834.6	2837.1	2829.5	2834.6	2829.5
7.5°	2587.0	2670.4	2799.2	2867.4	2875.0	2847.2	2849.7	2839.6	2849.7	2859.8	2859.8
10°	2667.8	2773.9	2895.2	2920.5	2887.6	2872.5	2902.8	2963.4	2983.6	3011.4	3011.4
12.5°	2773.9	2900.3	2986.2	2963.4	2933.1	2983.6	3072.0	3132.7	3152.9	3163.0	3155.4
15°	2895.2	3031.6	3074.6	2998.8	3054.4	3163.0	3193.3	3157.9	3107.4	3084.7	3097.3
17.5°	3049.3	3163.0	3137.7	3087.2	3213.5	3228.7	3130.2	3016.5	2935.6	2905.3	2925.5
20°	3211.0	3309.5	3193.3	3216.1	3294.4	3132.7	2945.7	2799.2	2728.5	2715.8	2736.0
22.5°	3382.8	3446.0	3248.9	3365.1	3248.9	2920.5	2695.6	2619.8	2602.1	2622.4	2640.0
25°	3577.3	3569.7	3344.9	3410.6	3079.6	2660.3	2526.4	2521.3	2521.3	2533.9	2559.2
27.5°	3797.1	3678.4	3440.9	3349.9	2786.6	2445.5	2420.2	2422.8	2415.2	2417.7	2430.4
30°	4052.3	3824.9	3547.0	3150.4	2458.1	2283.8	2273.7	2266.1	2248.5	2243.4	2248.5
32.5°	4373.1	3979.0	3655.6	2821.9	2170.1	2117.1	2112.0	2071.6	2028.7	2023.6	2041.3
35°	4779.9	4259.4	3711.2	2410.1	1932.7	1930.1	1912.5	1849.3	1793.7	1793.7	1781.1
37.5°	5244.7	4620.7	3734.0	2008.5	1735.6	1748.2	1697.7	1616.9	1573.9	1548.7	1556.2
40°	5719.7	5032.5	3731.4	1657.3	1563.8	1566.3	1528.4	1429.9	1323.8	1260.7	1275.8
42.5°	6176.9	5406.4	3665.7	1470.3	1424.9	1417.3	1387.0	1253.1	1164.7	1114.1	1116.6
45°	6543.3	5792.9	3564.7	1359.2	1298.5	1311.2	1243.0	1162.1	1081.3	1035.8	1033.3
47.5°	6909.6	6086.0	3403.0	1291.0	1205.1	1182.3	1154.5	1099.0	1038.3	987.8	990.3
50°	7243.1	6336.1	3251.4	1245.5	1119.2	1061.1	1066.1	1033.3	980.2	934.8	932.2
52.5°	7478.0	6500.3	3168.1	1220.2	1015.6	952.4	970.1	952.4	901.9	869.1	866.5
55°	7713.0	6626.6	3195.8	1187.4	901.9	851.4	881.7	876.6	848.9	838.8	841.3
57.5°	7902.4	6722.6	3294.4	1126.8	793.3	763.0	813.5	798.3	778.1	780.6	780.6
60°	8086.9	6846.4	3410.6	987.8	699.8	702.3	750.3	722.5	709.9	732.6	735.2
62.5°	8278.9	6980.3	3314.6	785.7	619.0	636.6	692.2	669.5	674.5	707.4	717.5
65°	8256.1	6967.7	2700.7	644.2	548.2	583.6	667.0	659.4	661.9	674.5	679.6
67.5°	7791.3	6523.1	1856.9	548.2	497.7	540.6	646.7	616.4	619.0	611.4	613.9
68°	7634.6	6366.4	1637.1	533.1	487.6	530.5	636.6	608.9	611.4	603.8	601.3
70°	6780.7	5451.9	1035.8	469.9	452.2	502.7	586.1	576.0	573.5	568.4	568.4
72.5°	5168.9	4024.5	545.7	406.7	411.8	459.8	523.0	543.2	530.5	533.1	548.2
75°	3423.2	2420.2	379.0	348.6	361.3	394.1	464.8	505.3	492.6	500.2	492.6
77.5°	1811.4	1303.6	303.2	295.6	295.6	318.3	384.0	447.2	447.2	442.1	434.5
80°	593.7	459.8	242.5	232.4	237.5	250.1	308.2	366.3	373.9	363.8	358.7
82.5°	199.6	212.2	181.9	169.3	174.3	184.4	232.4	280.4	283.0	262.7	257.7
85°	123.8	141.5	113.7	111.2	111.2	113.7	141.5	154.1	141.5	126.3	131.4
87.5°	58.1	70.7	53.1	45.5	37.9	32.8	25.3	10.1	10.1	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)