

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: P1211031

Luminaire Tested: **ARCH4-150-722-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211031
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: ARCH4-150-722-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1230mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20886 lumens
Efficiency: N/A
Efficacy: 138.5 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): 150.8
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



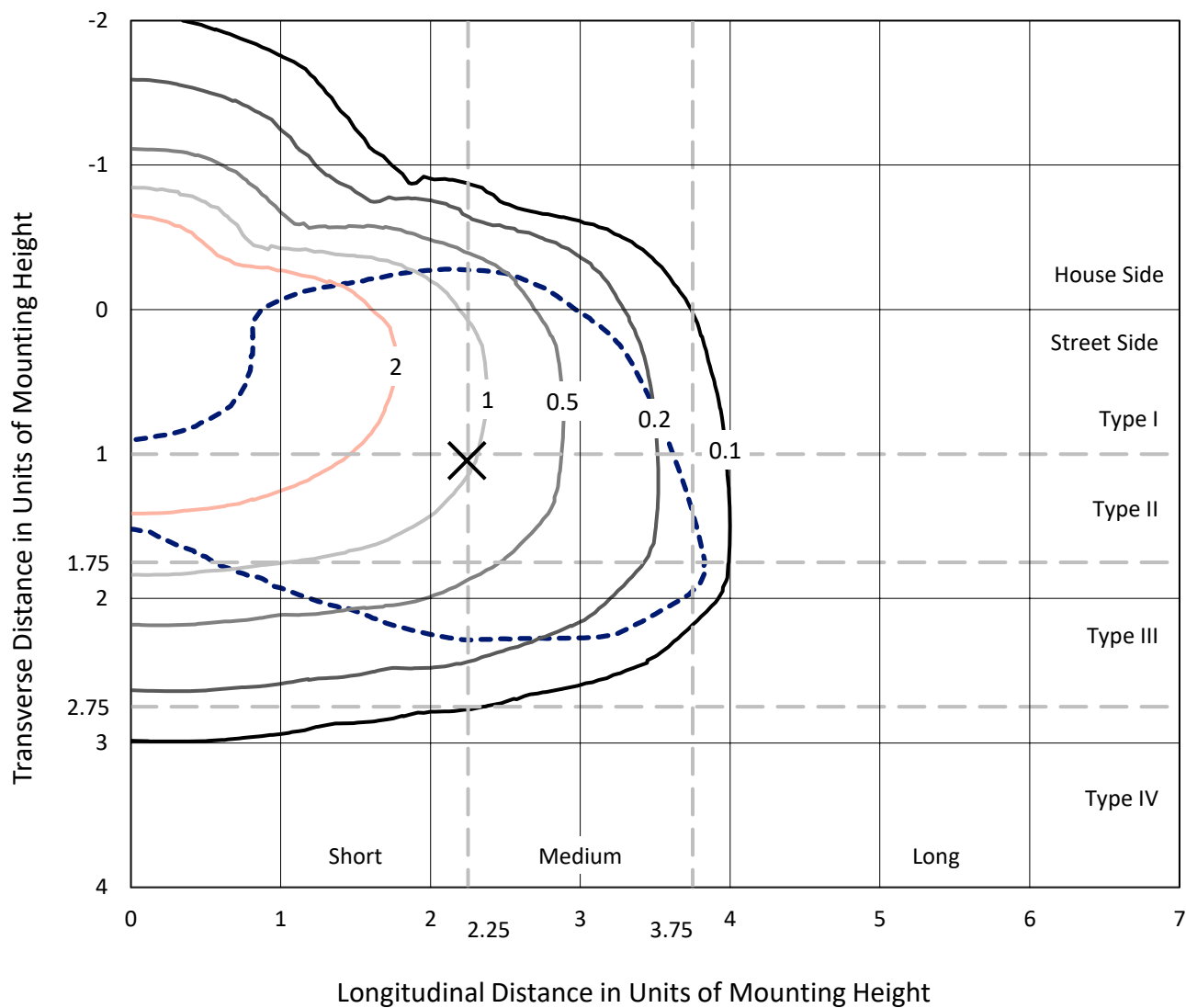
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

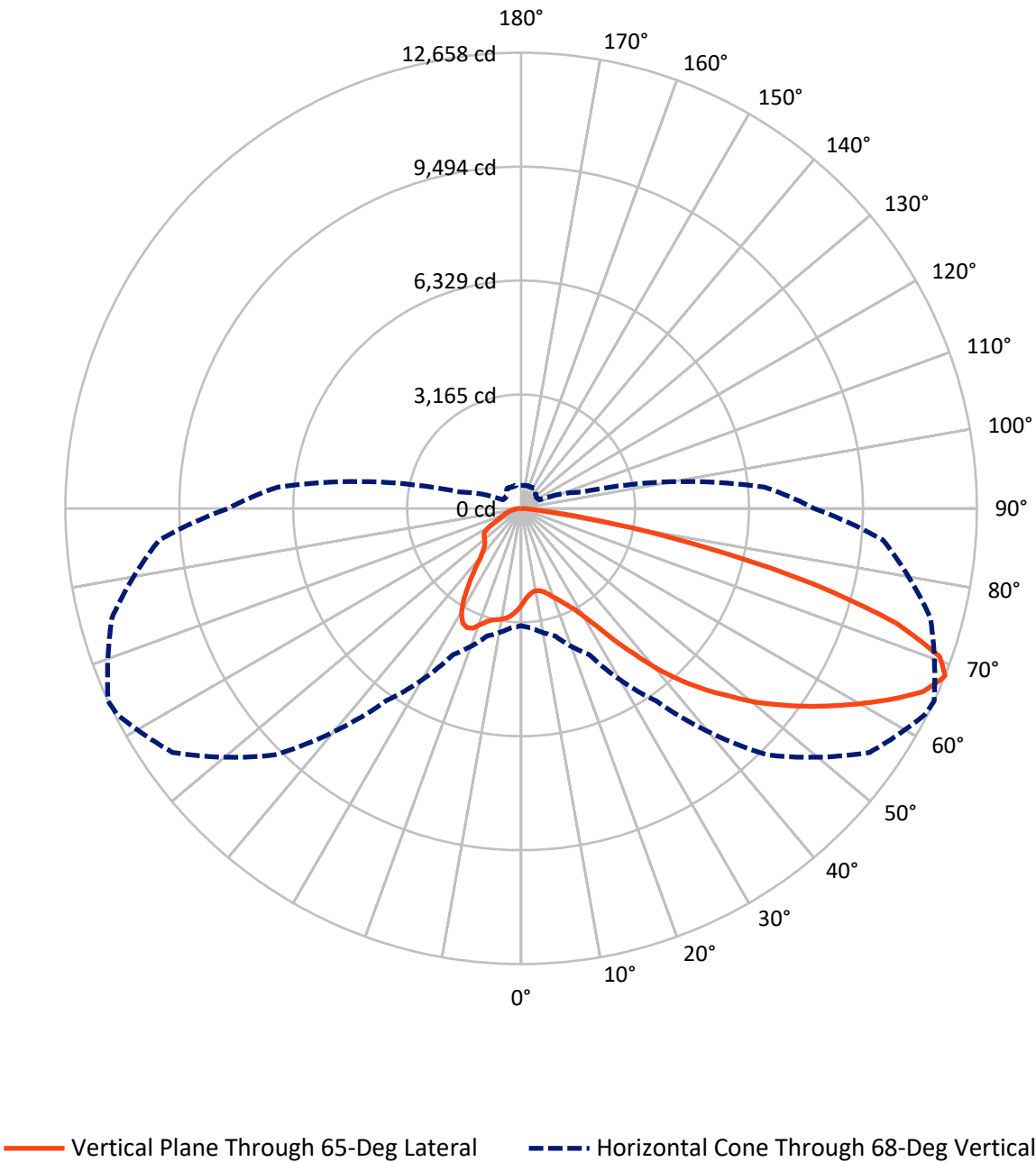


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc

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	5120.6	0.0	5120.6
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	15765.4	0.0	15765.4
	% Fixture	75.5	0.0	75.5
Total	Lumens	20886.0	0.0	20886.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.1	1.2
10°-20°	830.5	4.0
20°-30°	1503.2	7.2
30°-40°	2364.6	11.3
40°-50°	3521.9	16.9
50°-60°	4620.0	22.1
60°-70°	5052.3	24.2
70°-80°	2500.0	12.0
80°-90°	238.5	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°	20886.0	100.0
0°-180°	20886.0	100.0

Coefficient of Utilization



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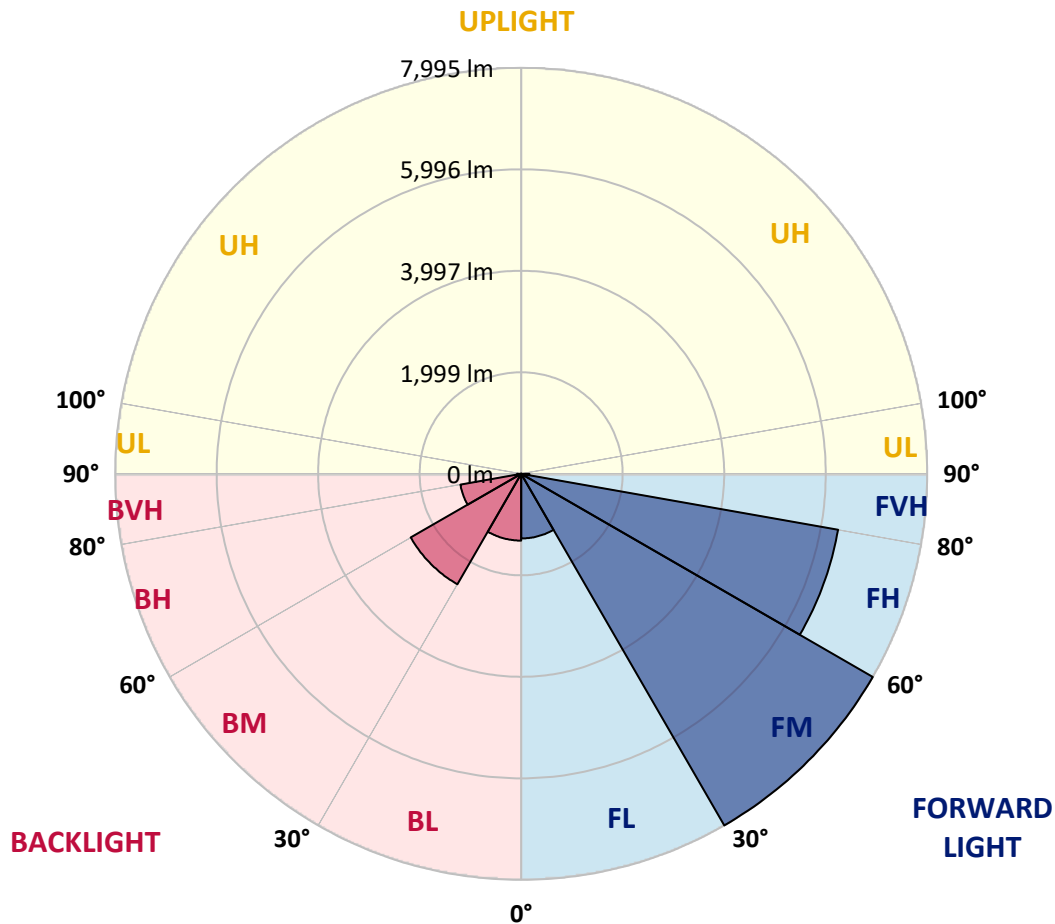
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1273.2	6.1			
FM	(30°-60°)	7994.9	38.3			
FH	(60°-80°)	6336.9	30.3			G3/7500
FVH	(80°-90°)	160.4	0.8			G2/225
BL	(0°-30°)	1315.5	6.3	B3/2500		
BM	(30°-60°)	2511.6	12.0	B3/5000		
BH	(60°-80°)	1215.4	5.8	B3/2500		G3/2500
BVH	(80°-90°)	78.1	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°	2669.0	2669.0	2669.0	2669.0	2669.0	2669.0	2669.0	2669.0	2669.0	2669.0	2669.0
2.5°	2329.6	2324.2	2337.7	2351.2	2380.8	2415.8	2464.3	2504.7	2510.1	2585.5	2644.7
5°	2192.3	2184.2	2197.7	2213.8	2227.3	2270.4	2321.6	2380.8	2405.0	2515.5	2642.0
7.5°	2205.7	2203.1	2208.4	2203.1	2203.1	2221.9	2256.9	2316.2	2343.1	2475.1	2655.5
10°	2283.8	2289.2	2291.9	2275.8	2259.6	2251.5	2262.3	2302.7	2321.6	2477.8	2714.8
12.5°	2413.1	2421.2	2423.9	2394.3	2372.7	2337.7	2318.9	2335.0	2348.5	2504.7	2798.3
15°	2588.2	2593.6	2574.7	2555.9	2502.0	2458.9	2413.1	2399.7	2405.0	2561.2	2892.5
17.5°	2792.9	2784.8	2784.8	2739.0	2669.0	2601.6	2526.2	2515.5	2515.5	2652.8	3027.2
20°	3016.4	3024.5	3000.2	2938.3	2868.3	2763.2	2687.8	2639.4	2644.7	2757.9	3191.5
22.5°	3339.6	3353.1	3288.4	3199.5	3091.8	2970.6	2862.9	2784.8	2787.5	2895.2	3361.1
25°	3687.0	3692.4	3652.0	3533.5	3388.1	3215.7	3073.0	2973.3	2970.6	3048.7	3579.3
27.5°	4042.5	4066.8	3986.0	3872.8	3738.2	3522.7	3334.2	3199.5	3178.0	3283.0	3851.3
30°	4408.8	4438.4	4360.3	4249.9	4082.9	3899.8	3676.2	3520.0	3506.6	3646.6	4214.9
32.5°	4777.8	4785.8	4723.9	4632.3	4481.5	4309.1	4128.7	3956.3	3942.9	4171.8	4686.2
35°	5079.4	5103.6	5060.6	5039.0	4928.6	4769.7	4594.6	4495.0	4530.0	4823.5	5297.6
37.5°	5443.0	5467.2	5418.8	5413.4	5378.4	5241.0	5119.8	5127.9	5162.9	5561.5	5941.2
40°	5968.2	5995.1	5871.2	5817.3	5817.3	5682.7	5642.3	5833.5	5879.3	6288.7	6611.8
42.5°	6412.5	6455.6	6382.9	6347.9	6242.9	6148.6	6197.1	6466.4	6544.5	6983.5	7196.3
45°	6628.0	6660.3	6746.5	6848.8	6746.5	6582.2	6765.4	7069.7	7180.1	7624.5	7780.7
47.5°	6743.8	6773.4	6873.1	7147.8	7217.8	7080.5	7339.0	7718.8	7794.2	8260.1	8338.2
50°	6760.0	6854.2	6983.5	7258.2	7578.7	7597.6	7915.4	8378.6	8467.5	8884.9	8828.4
52.5°	6628.0	6665.7	6932.3	7395.6	7751.1	8074.3	8542.9	9011.5	9076.1	9472.0	9262.0
55°	6412.5	6466.4	6733.0	7363.3	7918.1	8526.7	9181.2	9633.6	9706.3	10043.0	9663.3
57.5°	6218.6	6245.6	6531.0	7269.0	8085.0	8979.2	9749.4	10282.7	10331.2	10543.9	9959.5
60°	6003.2	6032.8	6318.3	7067.0	8208.9	9321.2	10341.9	10937.1	10980.2	11071.8	10304.2
62.5°	5445.7	5523.8	5882.0	6733.0	8176.6	9711.7	10974.9	11583.5	11637.4	11537.7	10576.3
65°	4422.3	4532.7	4971.7	5976.2	7875.0	9964.9	11492.0	12178.7	12270.3	11887.9	10649.0
67.5°	3433.9	3512.0	3864.8	4742.8	6816.5	9838.3	11825.9	12588.1	12615.0	11831.3	10245.0
68°	3256.1	3334.2	3670.9	4484.2	6523.0	9687.5	11817.8	12598.9	12658.1	11769.4	10088.8
70°	2491.2	2580.1	2900.6	3552.4	5257.2	8728.7	11325.0	12340.3	12332.2	11020.6	9119.2
72.5°	1556.7	1607.8	1828.7	2240.8	3476.9	6641.5	9612.1	10883.3	10904.8	8984.6	6994.3
75°	988.4	988.4	977.6	1085.4	1782.9	3784.0	7145.1	8378.6	8394.8	6291.4	4408.8
77.5°	859.1	834.9	719.1	608.7	711.0	1470.5	4228.3	5410.7	5321.8	3388.1	2092.6
80°	724.5	684.1	589.8	490.2	457.8	460.5	1624.0	2747.1	2628.6	1220.0	694.8
82.5°	522.5	487.5	444.4	385.1	352.8	274.7	339.3	794.5	775.6	352.8	226.2
85°	282.8	255.9	250.5	253.2	212.8	169.7	142.7	175.1	175.1	153.5	129.3
87.5°	99.6	72.7	86.2	97.0	83.5	70.0	56.6	67.3	70.0	67.3	61.9
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°	2669.0	2669.0	2669.0	2669.0	2669.0	2669.0	2669.0	2669.0	2669.0	2669.0	2669.0
2.5°	2679.7	2706.7	2771.3	2827.9	2868.3	2903.3	2922.1	2930.2	2949.1	2951.8	2946.4
5°	2701.3	2771.3	2868.3	2951.8	2997.5	3016.4	3021.8	3024.5	3016.4	3021.8	3016.4
7.5°	2757.9	2846.7	2984.1	3056.8	3064.9	3035.3	3037.9	3027.2	3037.9	3048.7	3048.7
10°	2844.0	2957.2	3086.4	3113.4	3078.3	3062.2	3094.5	3159.1	3180.7	3210.3	3210.3
12.5°	2957.2	3091.8	3183.4	3159.1	3126.8	3180.7	3275.0	3339.6	3361.1	3371.9	3363.8
15°	3086.4	3231.9	3277.6	3196.8	3256.1	3371.9	3404.2	3366.5	3312.7	3288.4	3301.9
17.5°	3250.7	3371.9	3345.0	3291.1	3425.8	3441.9	3336.9	3215.7	3129.5	3097.2	3118.7
20°	3423.1	3528.1	3404.2	3428.5	3512.0	3339.6	3140.3	2984.1	2908.7	2895.2	2916.8
22.5°	3606.2	3673.5	3463.5	3587.4	3463.5	3113.4	2873.7	2792.9	2774.0	2795.6	2814.4
25°	3813.6	3805.5	3565.8	3635.8	3283.0	2836.0	2693.2	2687.8	2687.8	2701.3	2728.2
27.5°	4047.9	3921.3	3668.2	3571.2	2970.6	2607.0	2580.1	2582.8	2574.7	2577.4	2590.9
30°	4319.9	4077.5	3781.3	3358.4	2620.5	2434.7	2423.9	2415.8	2397.0	2391.6	2397.0
32.5°	4662.0	4241.8	3897.1	3008.3	2313.5	2256.9	2251.5	2208.4	2162.7	2157.3	2176.1
35°	5095.6	4540.8	3956.3	2569.3	2060.3	2057.6	2038.8	1971.4	1912.2	1912.2	1898.7
37.5°	5591.1	4925.9	3980.6	2141.1	1850.2	1863.7	1809.8	1723.7	1677.9	1650.9	1659.0
40°	6097.4	5364.9	3977.9	1766.7	1667.1	1669.8	1629.4	1524.4	1411.2	1343.9	1360.1
42.5°	6584.9	5763.5	3907.9	1567.5	1519.0	1510.9	1478.6	1335.8	1241.6	1187.7	1190.4
45°	6975.4	6175.5	3800.1	1449.0	1384.3	1397.8	1325.1	1238.9	1152.7	1104.2	1101.5
47.5°	7365.9	6488.0	3627.8	1376.2	1284.7	1260.4	1230.8	1171.5	1106.9	1053.0	1055.7
50°	7721.4	6754.6	3466.2	1327.8	1193.1	1131.2	1136.5	1101.5	1045.0	996.5	993.8
52.5°	7971.9	6929.6	3377.3	1300.8	1082.7	1015.3	1034.2	1015.3	961.5	926.5	923.8
55°	8222.4	7064.3	3406.9	1265.8	961.5	907.6	939.9	934.5	904.9	894.1	896.8
57.5°	8424.4	7166.6	3512.0	1201.2	845.7	813.4	867.2	851.1	829.5	832.2	832.2
60°	8621.0	7298.6	3635.8	1053.0	746.0	748.7	799.9	770.3	756.8	781.0	783.7
62.5°	8825.7	7441.4	3533.5	837.6	659.8	678.7	737.9	713.7	719.1	754.1	764.9
65°	8801.4	7427.9	2879.0	686.8	584.4	622.1	711.0	702.9	705.6	719.1	724.5
67.5°	8305.9	6953.9	1979.5	584.4	530.6	576.3	689.5	657.1	659.8	651.8	654.5
68°	8138.9	6786.9	1745.2	568.3	519.8	565.6	678.7	649.1	651.8	643.7	641.0
70°	7228.6	5812.0	1104.2	500.9	482.1	535.9	624.8	614.1	611.4	606.0	606.0
72.5°	5510.3	4290.3	581.7	433.6	439.0	490.2	557.5	579.0	565.6	568.3	584.4
75°	3649.3	2580.1	404.0	371.7	385.1	420.1	495.6	538.6	525.2	533.3	525.2
77.5°	1931.0	1389.7	323.2	315.1	315.1	339.3	409.4	476.7	476.7	471.3	463.2
80°	632.9	490.2	258.5	247.8	253.2	266.6	328.6	390.5	398.6	387.8	382.4
82.5°	212.8	226.2	193.9	180.4	185.8	196.6	247.8	298.9	301.6	280.1	274.7
85°	132.0	150.8	121.2	118.5	118.5	121.2	150.8	164.3	150.8	134.7	140.0
87.5°	61.9	75.4	56.6	48.5	40.4	35.0	26.9	10.8	10.8	5.4	5.4
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)