

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: P1210521

Luminaire Tested: **ARCH3-150-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210521
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-150-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1170mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19967 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

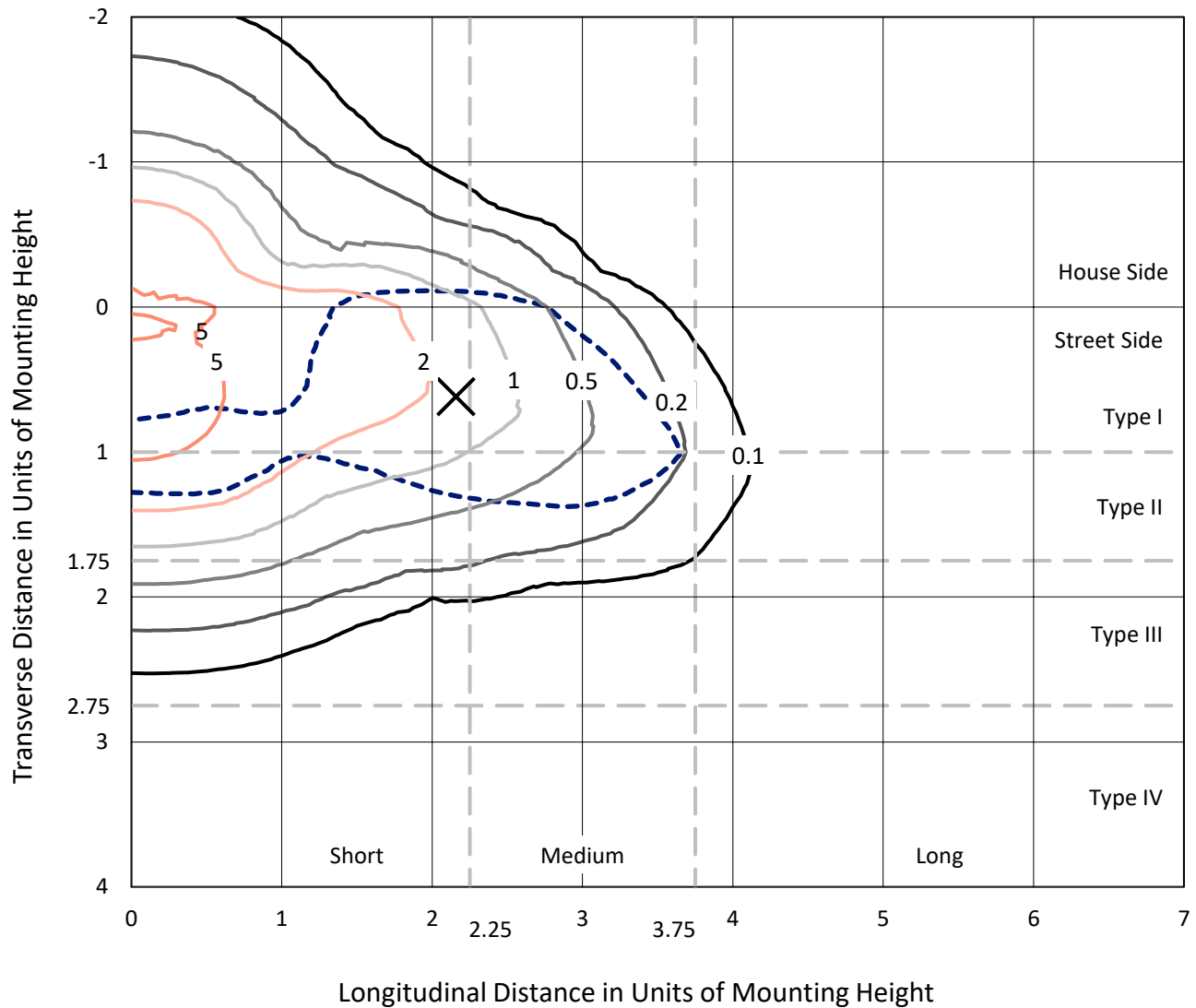
Input Watts (W): 150.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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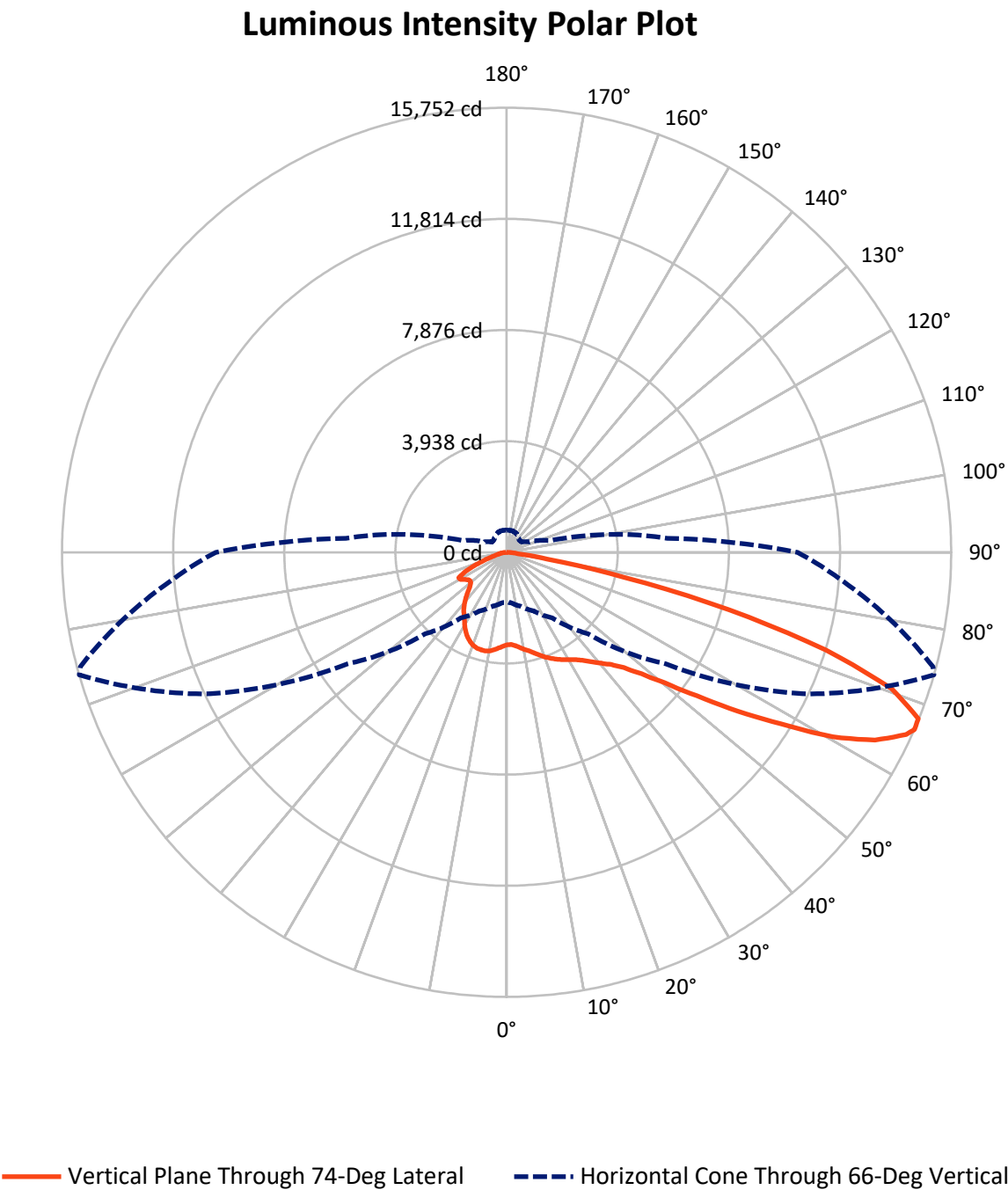
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4862.5	0.0	4862.5
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	15104.5	0.0	15104.5
	% Fixture	75.6	0.0	75.6
Total	Lumens	19967.0	0.0	19967.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.2	1.6
10°-20°	960.2	4.8
20°-30°	1801.8	9.0
30°-40°	2771.6	13.9
40°-50°	3728.1	18.7
50°-60°	4408.9	22.1
60°-70°	4078.5	20.4
70°-80°	1715.8	8.6
80°-90°	189.9	1.0
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°	19967.0	100.0
0°-180°	19967.0	100.0

Coefficient of Utilization



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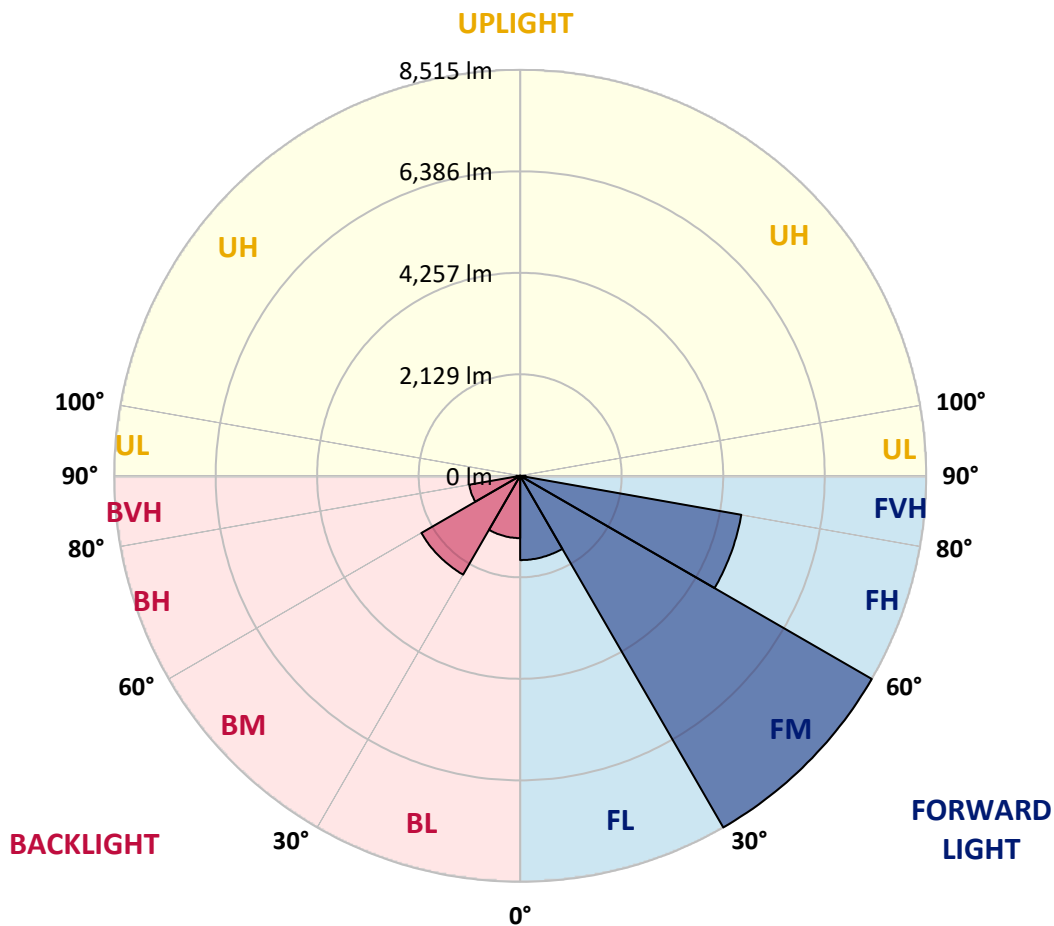
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1767.3	8.9			
FM	(30°-60°)	8514.8	42.6			
FH	(60°-80°)	4708.8	23.6			G2/5000
FVH	(80°-90°)	113.6	0.6			G2/225
BL	(0°-30°)	1306.9	6.5	B3/2500		
BM	(30°-60°)	2393.8	12.0	B2/2500		
BH	(60°-80°)	1085.5	5.4	B3/2500		G3/2500
BVH	(80°-90°)	76.3	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3273.3	3273.3	3273.3	3273.3	3273.3	3273.3	3273.3	3273.3	3273.3	3273.3	3273.3
2.5°	3263.0	3257.8	3268.1	3283.5	3291.2	3278.4	3273.3	3270.7	3270.7	3263.0	3275.8
5°	3108.8	3106.3	3129.4	3157.6	3211.6	3250.1	3301.5	3332.3	3322.1	3306.7	3316.9
7.5°	2908.4	2903.3	2931.5	2985.5	3060.0	3144.8	3270.7	3368.3	3406.9	3401.7	3399.1
10°	2985.5	2980.4	2977.8	2962.4	2988.1	3070.3	3201.3	3373.5	3504.5	3507.1	3509.6
12.5°	3252.7	3265.5	3252.7	3203.9	3147.4	3116.5	3193.6	3386.3	3586.7	3602.1	3666.4
15°	3617.5	3604.7	3579.0	3522.5	3435.1	3342.6	3286.1	3445.4	3704.9	3717.7	3859.0
17.5°	3938.7	3949.0	3933.6	3879.6	3776.8	3656.1	3483.9	3548.2	3830.8	3866.8	4064.6
20°	4288.1	4329.2	4308.7	4241.9	4157.1	3977.2	3761.4	3697.2	3969.5	3995.2	4277.8
22.5°	4691.5	4735.2	4696.6	4632.4	4563.0	4342.1	4064.6	3879.6	4085.1	4139.1	4483.4
25°	5174.5	5215.6	5179.7	5079.5	4992.1	4722.3	4390.9	4085.1	4198.2	4257.3	4650.4
27.5°	5557.3	5588.2	5621.6	5562.5	5428.9	5148.8	4730.0	4298.4	4311.2	4372.9	4804.5
30°	5899.1	5976.1	6004.4	6012.1	5899.1	5585.6	5076.9	4519.4	4408.9	4473.1	4958.7
32.5°	6366.7	6482.3	6436.0	6482.3	6415.5	5996.7	5436.6	4748.0	4534.8	4593.9	5105.1
35°	7050.1	7142.6	7021.8	6985.9	6877.9	6412.9	5783.4	4984.4	4701.8	4766.0	5243.9
37.5°	7784.9	7890.2	7715.5	7571.7	7366.1	6824.0	6081.5	5295.3	4933.0	4984.4	5372.4
40°	8427.2	8514.6	8363.0	8172.9	7828.6	7186.3	6338.4	5513.7	5164.2	5228.5	5521.4
42.5°	9020.7	9077.2	8907.7	8725.3	8265.4	7512.6	6615.9	5744.9	5434.0	5495.7	5642.1
45°	9621.9	9665.6	9429.2	9169.7	8630.2	7810.6	6921.6	6068.6	5829.7	5911.9	5837.4
47.5°	9729.8	9742.7	9701.6	9526.9	8918.0	8095.8	7299.3	6502.8	6433.5	6523.4	6174.0
50°	8982.2	9097.8	9352.2	9524.3	9033.6	8334.7	7677.0	7124.6	7265.9	7381.5	6872.8
52.5°	7530.5	7641.0	8229.4	8882.0	8756.1	8388.7	8082.9	7913.4	8440.1	8578.8	7823.4
55°	5999.3	6096.9	6718.7	7659.0	7859.4	8142.0	8517.1	8920.5	9938.0	10030.4	8866.6
57.5°	4940.7	4994.7	5439.2	6343.5	6664.7	7353.3	8750.9	10117.8	11461.5	11602.8	9773.5
60°	4051.7	4110.8	4442.3	5187.4	5613.9	6225.4	8566.0	11299.7	13280.6	13280.6	10937.4
62.5°	3049.7	3101.1	3409.4	3992.7	4709.5	5269.6	7975.0	12083.3	14652.6	14590.9	11780.1
65°	2094.0	2135.1	2358.6	2746.6	3391.4	4491.1	7168.3	12093.6	15562.1	15479.9	12139.8
66°	1757.4	1793.4	1983.5	2296.9	2839.0	4074.9	6883.1	11875.2	15752.2	15636.6	11988.2
67.5°	1387.4	1413.1	1539.0	1724.0	2081.1	3298.9	6433.5	11256.0	15734.2	15664.9	11602.8
70°	991.7	1009.7	1102.2	1140.8	1230.7	1909.0	5110.3	9858.3	14472.7	14493.3	10087.0
72.5°	768.2	796.5	853.0	860.7	840.2	1014.9	3101.1	8224.2	11839.2	11831.5	7486.9
75°	619.2	634.6	662.9	678.3	673.1	655.2	1312.9	6135.4	8149.7	8244.8	4193.1
77.5°	488.2	485.6	511.3	531.8	547.3	513.9	601.2	3597.0	4272.7	4151.9	1575.0
80°	359.7	359.7	395.7	403.4	426.5	431.6	400.8	1387.4	1467.1	1333.5	408.5
82.5°	236.4	236.4	274.9	280.1	303.2	336.6	290.3	416.2	405.9	385.4	185.0
85°	128.5	123.3	136.2	154.2	167.0	197.8	174.7	208.1	213.2	210.7	123.3
87.5°	25.7	23.1	36.0	41.1	46.2	61.7	56.5	84.8	118.2	115.6	54.0
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°	3273.3	3273.3	3273.3	3273.3	3273.3	3273.3	3273.3	3273.3	3273.3	3273.3	3273.3
2.5°	3293.8	3291.2	3319.5	3352.9	3391.4	3414.6	3424.8	3442.8	3430.0	3435.1	3450.5
5°	3342.6	3350.3	3391.4	3435.1	3453.1	3440.3	3412.0	3401.7	3378.6	3373.5	3368.3
7.5°	3414.6	3427.4	3468.5	3478.8	3424.8	3334.9	3270.7	3234.7	3196.2	3185.9	3180.8
10°	3532.8	3540.5	3550.7	3445.4	3311.8	3191.0	3111.4	3078.0	3052.3	3031.7	3036.9
12.5°	3681.8	3676.6	3597.0	3378.6	3188.5	3065.1	3011.2	2990.6	2972.7	2959.8	2957.2
15°	3869.3	3833.4	3604.7	3286.1	3072.9	2970.1	2931.5	2923.8	2903.3	2903.3	2900.7
17.5°	4059.5	3967.0	3599.6	3188.5	2962.4	2905.8	2882.7	2877.6	2872.4	2869.9	2877.6
20°	4249.6	4085.1	3558.4	3067.7	2885.3	2851.9	2846.8	2849.3	2844.2	2851.9	2846.8
22.5°	4416.6	4162.2	3481.4	2939.2	2831.3	2828.8	2815.9	2821.1	2839.0	2841.6	2849.3
25°	4545.0	4190.5	3368.3	2821.1	2792.8	2787.7	2803.1	2823.6	2839.0	2841.6	2854.5
27.5°	4650.4	4175.1	3227.0	2728.6	2726.0	2754.3	2800.5	2808.2	2810.8	2810.8	2800.5
30°	4730.0	4141.7	3047.2	2625.8	2638.6	2708.0	2751.7	2751.7	2731.1	2726.0	2741.4
32.5°	4748.0	4098.0	2851.9	2520.5	2541.0	2623.2	2677.2	2659.2	2636.1	2636.1	2646.4
35°	4763.4	4038.9	2695.2	2376.6	2407.4	2505.0	2556.4	2520.5	2494.8	2487.1	2484.5
37.5°	4758.3	4015.8	2553.9	2194.2	2235.3	2330.3	2363.7	2330.3	2291.8	2273.8	2296.9
40°	4763.4	4000.4	2376.6	1993.8	2034.9	2091.4	2135.1	2109.4	2073.4	2027.2	2050.3
42.5°	4794.3	4020.9	2181.3	1798.5	1798.5	1829.3	1903.8	1885.8	1798.5	1780.5	1801.1
45°	4958.7	4131.4	1986.0	1603.2	1575.0	1595.5	1672.6	1595.5	1541.6	1541.6	1559.5
47.5°	5356.9	4336.9	1813.9	1431.1	1364.3	1405.4	1425.9	1354.0	1312.9	1302.6	1320.6
50°	6168.8	4748.0	1711.1	1289.8	1207.6	1238.4	1225.5	1223.0	1181.9	1187.0	1197.3
52.5°	7402.1	5549.6	1680.3	1220.4	1117.6	1125.3	1112.5	1117.6	1109.9	1135.6	1143.3
55°	8745.8	6394.9	1718.8	1230.7	1056.0	1002.0	1007.2	1032.8	1063.7	1104.8	1112.5
57.5°	9750.4	6818.9	1819.0	1300.1	978.9	896.7	909.5	958.3	1017.4	1050.8	1068.8
60°	10498.1	6767.5	1965.5	1318.0	886.4	801.6	824.7	896.7	948.1	976.3	994.3
62.5°	10742.1	6446.3	2001.5	1187.0	765.6	711.7	768.2	842.7	865.8	896.7	909.5
65°	10541.7	5991.5	1739.4	963.5	673.1	644.9	727.1	783.6	814.5	829.9	832.4
66°	10305.4	5719.2	1598.1	876.1	639.7	624.3	711.7	757.9	788.8	786.2	788.8
67.5°	9786.4	5148.8	1369.4	752.8	590.9	593.5	686.0	716.8	727.1	719.4	719.4
70°	8021.3	3625.2	981.5	570.4	519.0	555.0	616.6	624.3	647.5	637.2	637.2
72.5°	4945.9	1780.5	657.7	436.8	462.5	519.0	516.4	542.1	596.1	611.5	621.8
75°	2430.5	722.0	434.2	370.0	413.7	434.2	429.1	493.3	570.4	637.2	660.3
77.5°	922.4	359.7	303.2	323.7	334.0	326.3	341.7	447.1	570.4	691.1	714.3
80°	285.2	249.2	238.9	267.2	251.8	238.9	256.9	370.0	483.0	524.1	524.1
82.5°	172.1	195.3	185.0	182.4	169.6	172.1	185.0	264.6	372.5	390.5	390.5
85°	120.8	128.5	105.3	100.2	97.6	95.1	95.1	154.2	221.0	218.4	226.1
87.5°	46.2	51.4	38.5	38.5	36.0	25.7	20.6	25.7	25.7	18.0	12.8
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)