

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: P1210613

Luminaire Tested: **ARCH3-180-722-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210613
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: ARCH3-180-722-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1375mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20349 lumens
Efficiency: N/A
Efficacy: 112.7 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): 180.5
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

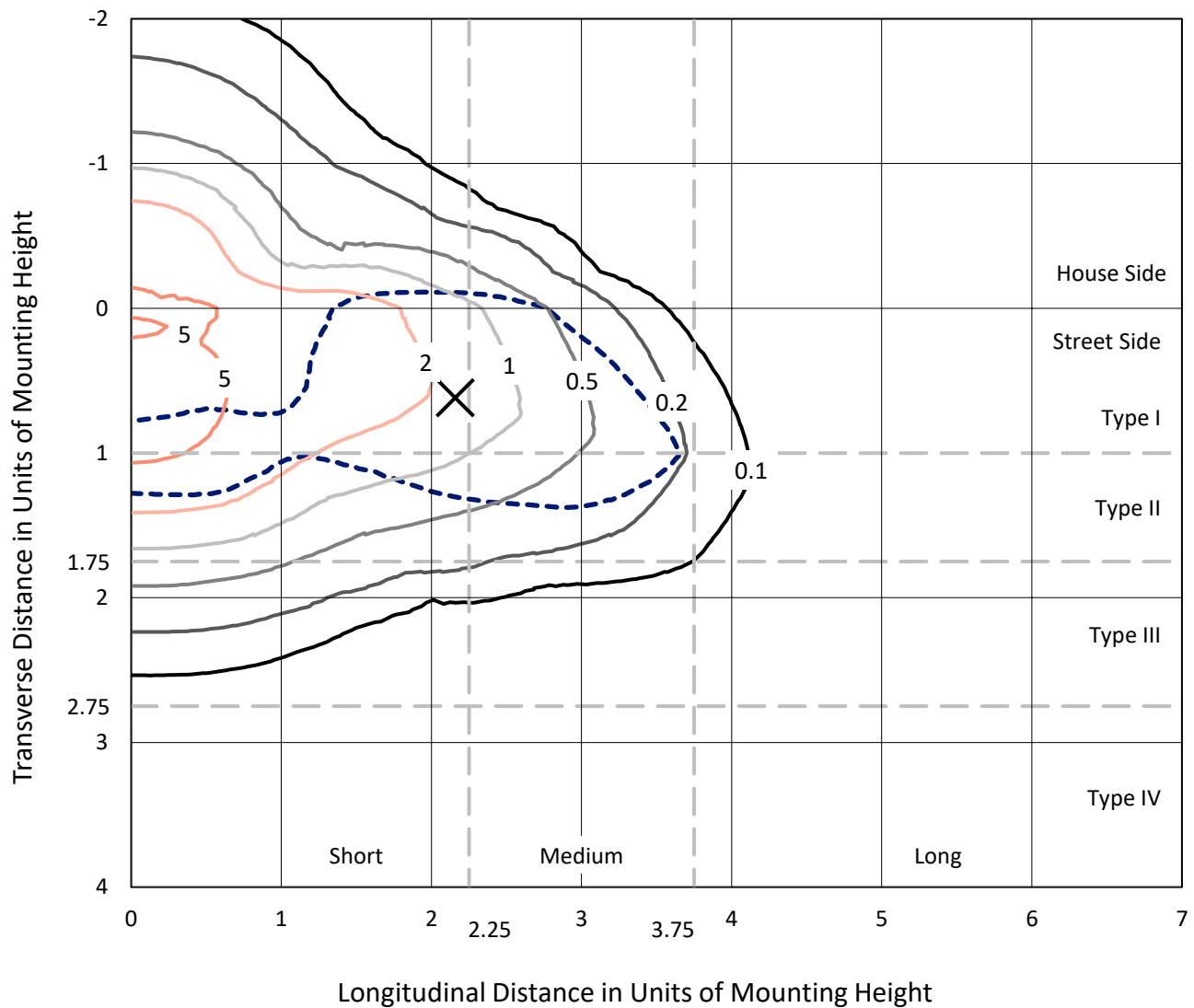


REPORT NUMBER: P1210613

CATALOG NUMBER: ARCH3-180-722-U-T2RE

Iso-Footcandle Lines of Horizontal Illumination

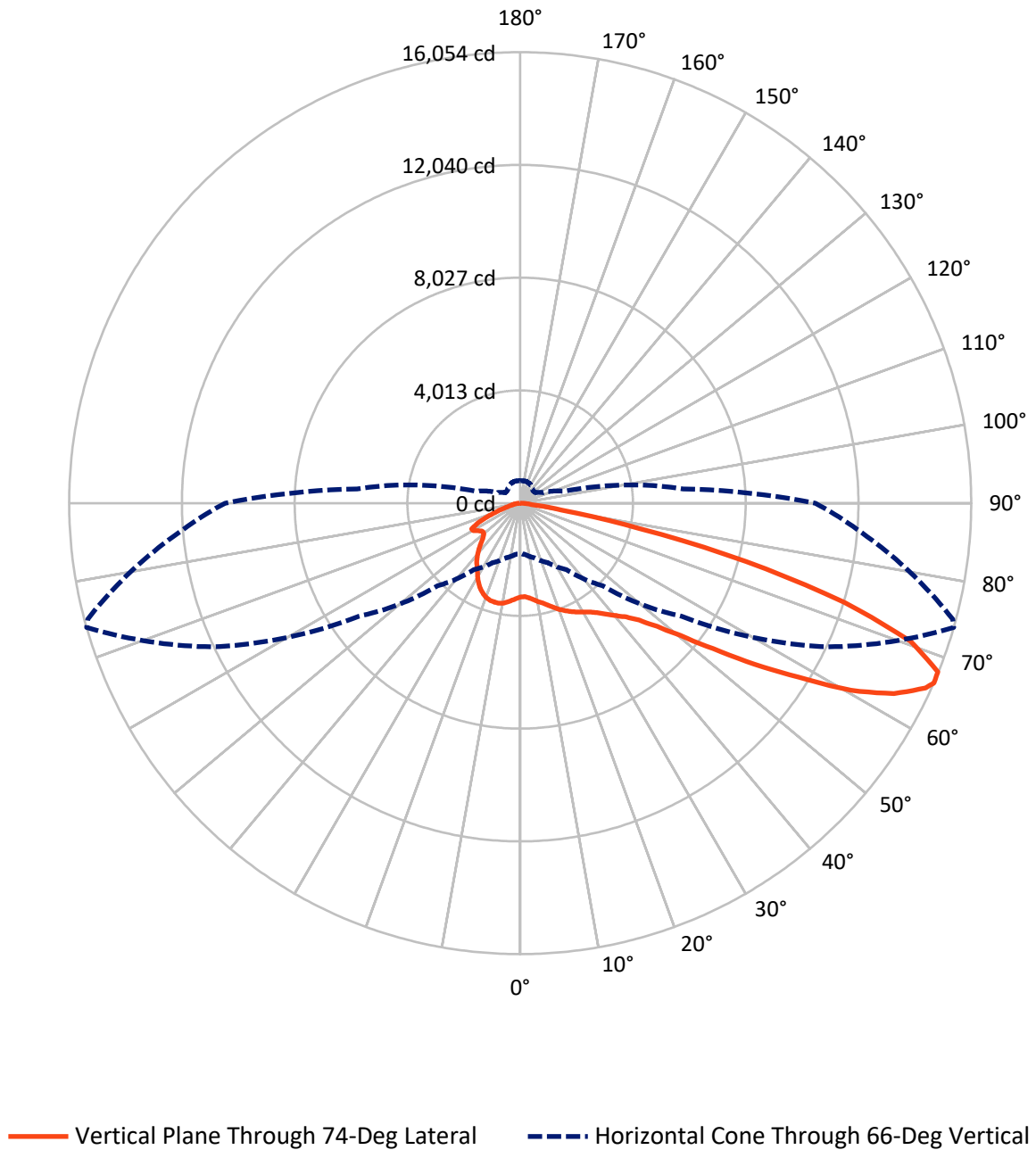
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
Type II - Short - N/A

REPORT NUMBER: P1210613
CATALOG NUMBER: ARCH3-180-722-U-T2RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1210613

CATALOG NUMBER: ARCH3-180-722-U-T2RE

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4955.5	0.0	4955.5
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	15393.5	0.0	15393.5
	% Fixture	75.6	0.0	75.6
Total	Lumens	20349.0	0.0	20349.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.2	1.6
10°-20°	978.6	4.8
20°-30°	1836.3	9.0
30°-40°	2824.7	13.9
40°-50°	3799.4	18.7
50°-60°	4493.3	22.1
60°-70°	4156.5	20.4
70°-80°	1748.6	8.6
80°-90°	193.5	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°	20349.0	100.0
0°-180°	20349.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210613

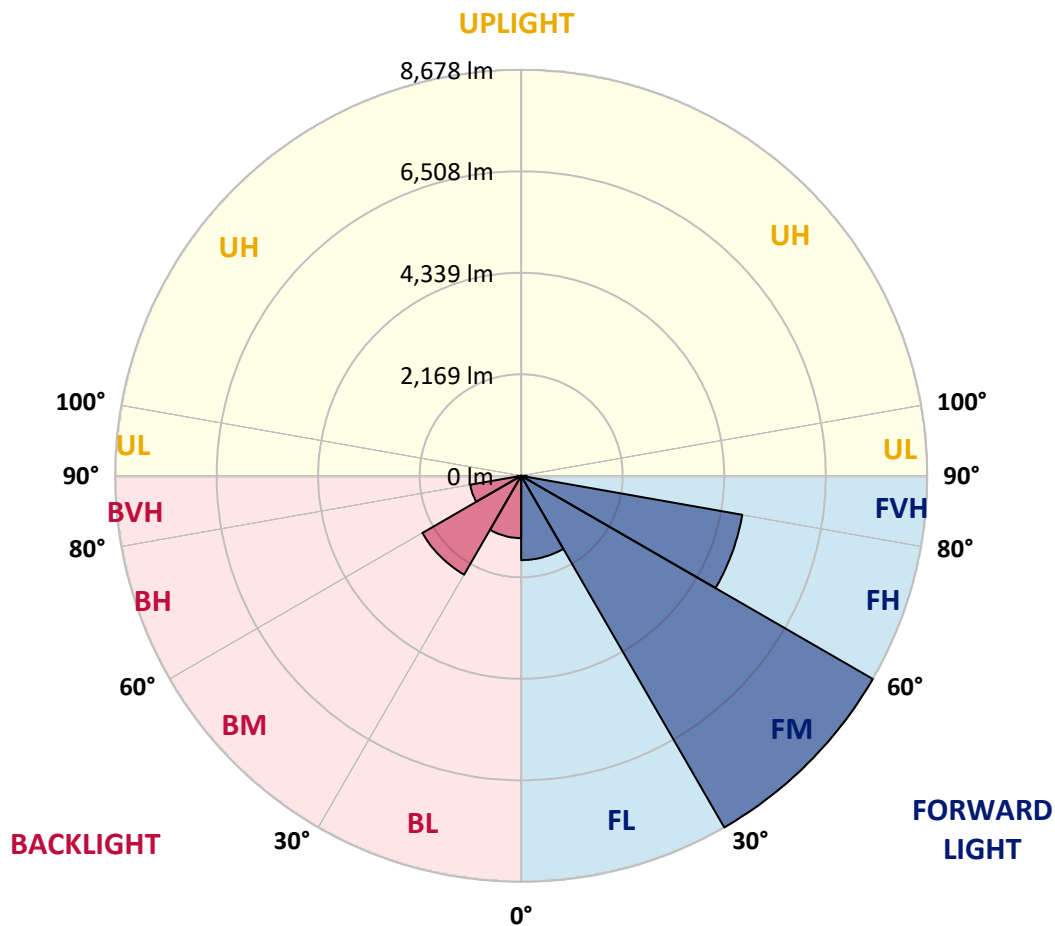
CATALOG NUMBER: ARCH3-180-722-U-T2RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1801.1	8.9			
FM	(30°-60°)	8677.7	42.6			
FH	(60°-80°)	4798.9	23.6			G2/5000
FVH	(80°-90°)	115.8	0.6			G2/225
BL	(0°-30°)	1331.9	6.5	B3/2500		
BM	(30°-60°)	2439.6	12.0	B2/2500		
BH	(60°-80°)	1106.2	5.4	B3/2500		G3/2500
BVH	(80°-90°)	77.7	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



REPORT NUMBER: P1210613

CATALOG NUMBER: ARCH3-180-722-U-T2RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3335.9	3335.9	3335.9	3335.9	3335.9	3335.9	3335.9	3335.9	3335.9	3335.9	3335.9
2.5°	3325.4	3320.2	3330.6	3346.4	3354.2	3341.1	3335.9	3333.3	3333.3	3325.4	3338.5
5°	3168.3	3165.7	3189.2	3218.0	3273.0	3312.3	3364.7	3396.1	3385.6	3369.9	3380.4
7.5°	2964.1	2958.8	2987.6	3042.6	3118.5	3205.0	3333.3	3432.8	3472.0	3466.8	3464.2
10°	3042.6	3037.4	3034.8	3019.0	3045.2	3129.0	3262.6	3438.0	3571.5	3574.2	3576.8
12.5°	3314.9	3328.0	3314.9	3265.2	3207.6	3176.2	3254.7	3451.1	3655.3	3671.0	3736.5
15°	3686.7	3673.7	3647.5	3589.9	3500.8	3406.6	3349.0	3511.3	3775.8	3788.9	3932.9
17.5°	4014.1	4024.5	4008.8	3953.8	3849.1	3726.0	3550.6	3616.0	3904.1	3940.7	4142.4
20°	4370.2	4412.1	4391.1	4323.0	4236.6	4053.3	3833.4	3767.9	4045.5	4071.7	4359.7
22.5°	4781.3	4825.8	4786.5	4721.0	4650.3	4425.1	4142.4	3953.8	4163.3	4218.3	4569.2
25°	5273.5	5315.4	5278.8	5176.6	5087.6	4812.7	4474.9	4163.3	4278.5	4338.7	4739.4
27.5°	5663.7	5695.1	5729.1	5668.9	5532.7	5247.3	4820.5	4380.6	4393.7	4456.6	4896.5
30°	6011.9	6090.5	6119.3	6127.1	6011.9	5692.5	5174.0	4605.8	4493.2	4558.7	5053.6
32.5°	6488.5	6606.3	6559.2	6606.3	6538.2	6111.4	5540.6	4838.9	4621.5	4681.7	5202.8
35°	7185.0	7279.2	7156.2	7119.5	7009.5	6535.6	5894.1	5079.8	4791.7	4857.2	5344.2
37.5°	7933.8	8041.2	7863.1	7716.5	7507.0	6954.5	6197.8	5396.6	5027.4	5079.8	5475.1
40°	8588.4	8677.5	8523.0	8329.2	7978.4	7323.7	6459.7	5619.1	5263.0	5328.5	5627.0
42.5°	9193.3	9250.9	9078.1	8892.2	8423.5	7656.3	6742.5	5854.8	5538.0	5600.8	5750.1
45°	9806.0	9850.5	9609.6	9345.2	8795.3	7960.0	7054.0	6184.7	5941.2	6025.0	5949.1
47.5°	9916.0	9929.1	9887.2	9709.1	9088.6	8250.7	7439.0	6627.2	6556.5	6648.2	6292.1
50°	9154.0	9271.9	9531.1	9706.5	9206.4	8494.2	7823.9	7260.9	7404.9	7522.7	7004.3
52.5°	7674.6	7787.2	8386.8	9051.9	8923.6	8549.2	8237.6	8064.8	8601.5	8742.9	7973.1
55°	6114.0	6213.5	6847.2	7805.5	8009.8	8297.8	8680.1	9091.2	10128.1	10222.3	9036.2
57.5°	5035.2	5090.2	5543.2	6464.9	6792.2	7493.9	8918.4	10311.4	11680.8	11824.8	9960.5
60°	4129.3	4189.5	4527.3	5286.6	5721.3	6344.5	8729.8	11515.8	13534.7	13534.7	11146.6
62.5°	3108.1	3160.4	3474.7	4069.0	4799.6	5370.4	8127.6	12314.5	14932.9	14870.1	12005.5
65°	2134.0	2175.9	2403.7	2799.1	3456.3	4577.0	7305.4	12324.9	15859.8	15776.0	12372.1
66°	1791.0	1827.7	2021.4	2340.9	2893.4	4152.8	7014.8	12102.4	16053.6	15935.8	12217.6
67.5°	1414.0	1440.1	1568.4	1757.0	2120.9	3362.1	6556.5	11471.3	16035.3	15964.6	11824.8
70°	1010.7	1029.0	1123.3	1162.6	1254.2	1945.5	5208.1	10046.9	14749.6	14770.6	10279.9
72.5°	782.9	811.7	869.3	877.2	856.2	1034.3	3160.4	8381.6	12065.7	12057.9	7630.1
75°	631.0	646.8	675.6	691.3	686.0	667.7	1338.0	6252.8	8305.7	8402.5	4273.3
77.5°	497.5	494.9	521.1	542.0	557.7	523.7	612.7	3665.8	4354.4	4231.4	1605.1
80°	366.6	366.6	403.2	411.1	434.7	439.9	408.5	1414.0	1495.1	1359.0	416.3
82.5°	240.9	240.9	280.2	285.4	309.0	343.0	295.9	424.2	413.7	392.8	188.5
85°	130.9	125.7	138.8	157.1	170.2	201.6	178.1	212.1	217.3	214.7	125.7
87.5°	26.2	23.6	36.7	41.9	47.1	62.8	57.6	86.4	120.4	117.8	55.0
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: P1210613

CATALOG NUMBER: ARCH3-180-722-U-T2RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3335.9	3335.9	3335.9	3335.9	3335.9	3335.9	3335.9	3335.9	3335.9	3335.9	3335.9
2.5°	3356.8	3354.2	3383.0	3417.0	3456.3	3479.9	3490.4	3508.7	3495.6	3500.8	3516.5
5°	3406.6	3414.4	3456.3	3500.8	3519.2	3506.1	3477.3	3466.8	3443.2	3438.0	3432.8
7.5°	3479.9	3493.0	3534.9	3545.4	3490.4	3398.7	3333.3	3296.6	3257.3	3246.9	3241.6
10°	3600.3	3608.2	3618.7	3511.3	3375.2	3252.1	3170.9	3136.9	3110.7	3089.7	3095.0
12.5°	3752.2	3747.0	3665.8	3443.2	3249.5	3123.8	3068.8	3047.9	3029.5	3016.4	3013.8
15°	3943.4	3906.7	3673.7	3349.0	3131.6	3026.9	2987.6	2979.8	2958.8	2958.8	2956.2
17.5°	4137.1	4042.9	3668.4	3249.5	3019.0	2961.4	2937.9	2932.6	2927.4	2924.8	2932.6
20°	4330.9	4163.3	3626.5	3126.4	2940.5	2906.5	2901.2	2903.8	2898.6	2906.5	2901.2
22.5°	4501.1	4241.9	3548.0	2995.5	2885.5	2882.9	2869.8	2875.0	2893.4	2896.0	2903.8
25°	4632.0	4270.7	3432.8	2875.0	2846.2	2841.0	2856.7	2877.7	2893.4	2896.0	2909.1
27.5°	4739.4	4254.9	3288.7	2780.8	2778.2	2807.0	2854.1	2861.9	2864.6	2864.6	2854.1
30°	4820.5	4220.9	3105.5	2676.0	2689.1	2759.8	2804.3	2804.3	2783.4	2778.2	2793.9
32.5°	4838.9	4176.4	2906.5	2568.7	2589.6	2673.4	2728.4	2710.1	2686.5	2686.5	2697.0
35°	4854.6	4116.2	2746.7	2422.0	2453.5	2553.0	2605.3	2568.7	2542.5	2534.6	2532.0
37.5°	4849.3	4092.6	2602.7	2236.1	2278.0	2374.9	2409.0	2374.9	2335.6	2317.3	2340.9
40°	4854.6	4076.9	2422.0	2031.9	2073.8	2131.4	2175.9	2149.7	2113.1	2065.9	2089.5
42.5°	4886.0	4097.8	2223.0	1832.9	1832.9	1864.3	1940.3	1921.9	1832.9	1814.6	1835.5
45°	5053.6	4210.4	2024.0	1633.9	1605.1	1626.0	1704.6	1626.0	1571.1	1571.1	1589.4
47.5°	5459.4	4419.9	1848.6	1458.5	1390.4	1432.3	1453.2	1379.9	1338.0	1327.5	1345.9
50°	6286.8	4838.9	1743.9	1314.5	1230.7	1262.1	1249.0	1246.4	1204.5	1209.7	1220.2
52.5°	7543.7	5655.8	1712.5	1243.8	1139.0	1146.9	1133.8	1139.0	1131.2	1157.3	1165.2
55°	8913.1	6517.3	1751.7	1254.2	1076.2	1021.2	1026.4	1052.6	1084.0	1125.9	1133.8
57.5°	9936.9	6949.3	1853.8	1324.9	997.6	913.8	926.9	976.7	1036.9	1070.9	1089.3
60°	10698.9	6896.9	2003.1	1343.3	903.4	816.9	840.5	913.8	966.2	995.0	1013.3
62.5°	10947.6	6569.6	2039.8	1209.7	780.3	725.3	782.9	858.8	882.4	913.8	926.9
65°	10743.4	6106.2	1772.7	981.9	686.0	657.2	741.0	798.6	830.0	845.8	848.4
66°	10502.5	5828.6	1628.7	892.9	652.0	636.3	725.3	772.4	803.9	801.2	803.9
67.5°	9973.6	5247.3	1395.6	767.2	602.2	604.9	699.1	730.5	741.0	733.2	733.2
70°	8174.7	3694.6	1000.2	581.3	528.9	565.6	628.4	636.3	659.8	649.4	649.4
72.5°	5040.5	1814.6	670.3	445.1	471.3	528.9	526.3	552.5	607.5	623.2	633.7
75°	2477.0	735.8	442.5	377.1	421.6	442.5	437.3	502.7	581.3	649.4	672.9
77.5°	940.0	366.6	309.0	329.9	340.4	332.5	348.3	455.6	581.3	704.4	727.9
80°	290.6	254.0	243.5	272.3	256.6	243.5	261.8	377.1	492.3	534.2	534.2
82.5°	175.4	199.0	188.5	185.9	172.8	175.4	188.5	269.7	379.7	398.0	398.0
85°	123.1	130.9	107.4	102.1	99.5	96.9	96.9	157.1	225.2	222.6	230.4
87.5°	47.1	52.4	39.3	39.3	36.7	26.2	20.9	26.2	26.2	18.3	13.1
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)