

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: P1211001

Luminaire Tested: **ARCH4-140-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211001
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: ARCH4-140-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21838 lumens
Efficiency: N/A
Efficacy: 154.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 141.3
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



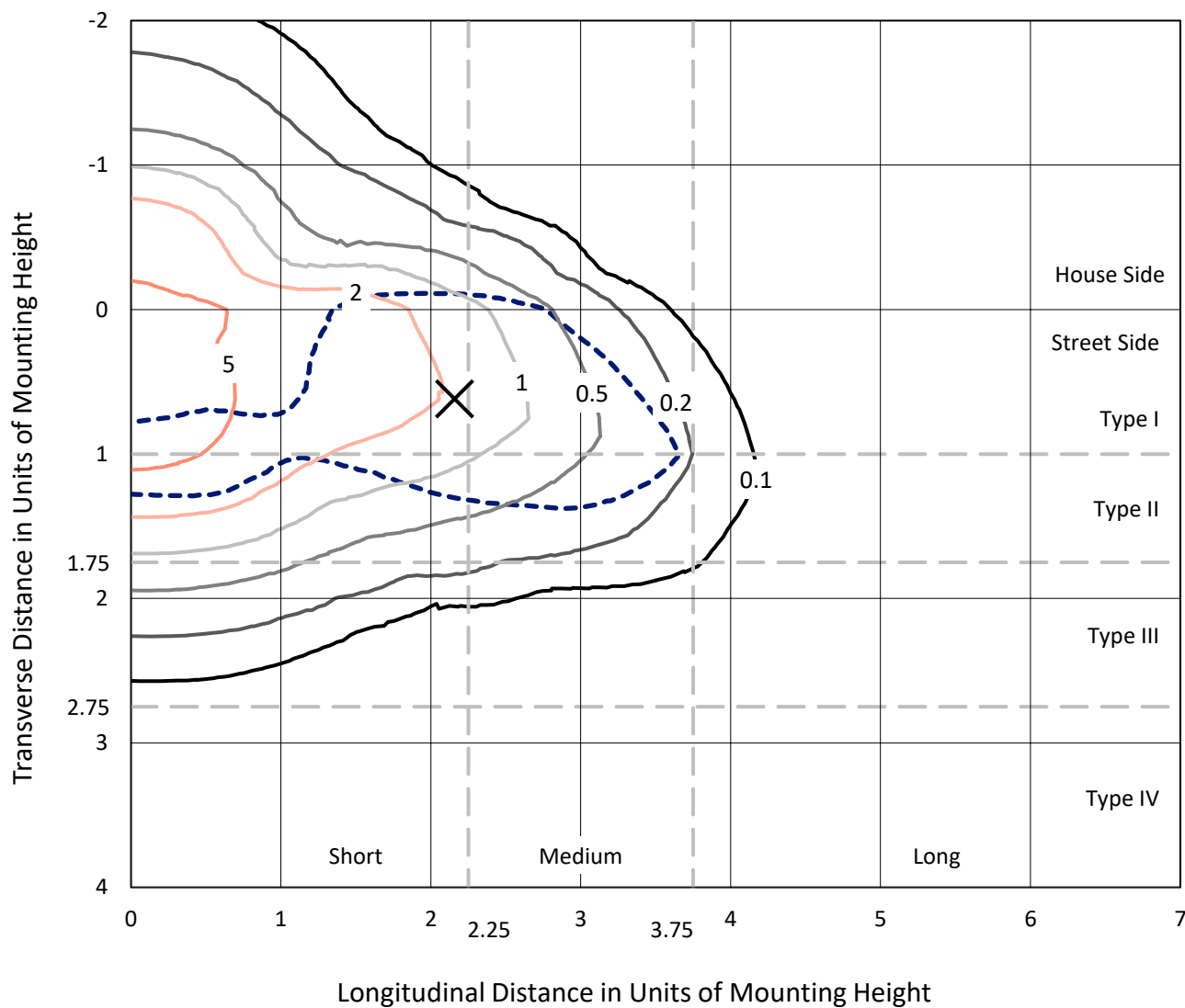
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Iso-Footcandle Lines of Horizontal Illumination

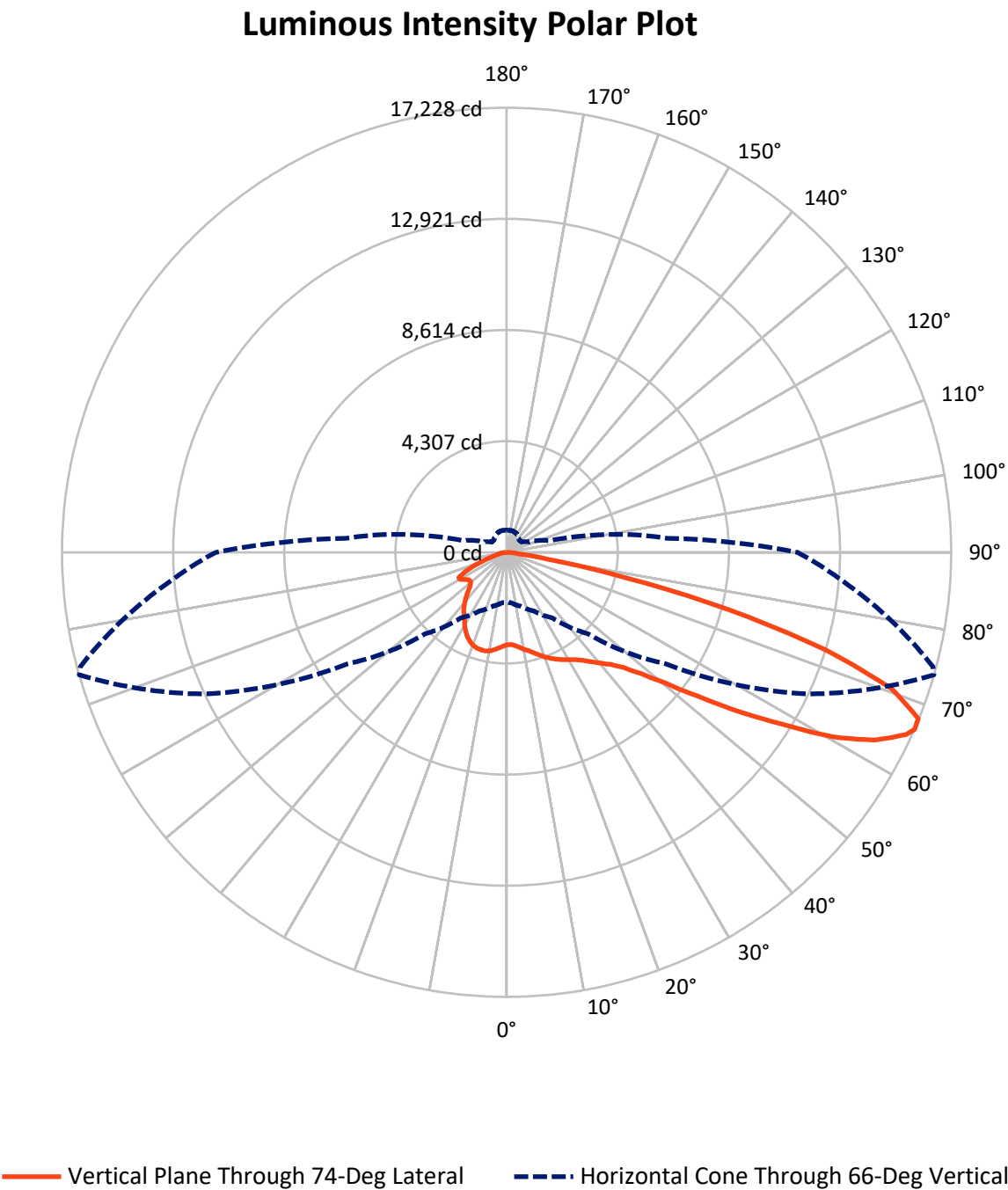
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5318.1	0.0	5318.1
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	16519.9	0.0	16519.9
	% Fixture	75.6	0.0	75.6
Total	Lumens	21838.0	0.0	21838.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.5	1.6
10°-20°	1050.2	4.8
20°-30°	1970.7	9.0
30°-40°	3031.3	13.9
40°-50°	4077.4	18.7
50°-60°	4822.0	22.1
60°-70°	4460.6	20.4
70°-80°	1876.6	8.6
80°-90°	207.7	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°	21838.0	100.0
0°-180°	21838.0	100.0

Coefficient of Utilization



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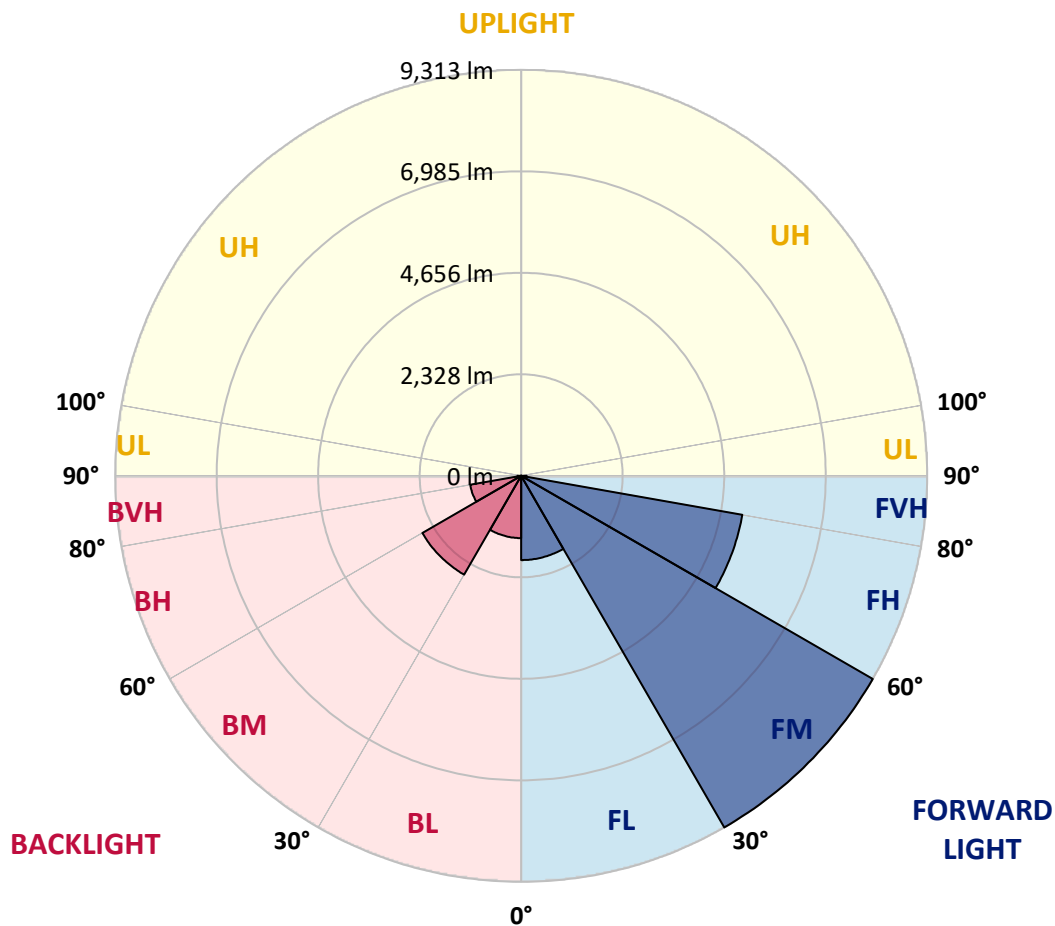
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1932.9	8.9			
FM	(30°-60°)	9312.7	42.6			
FH	(60°-80°)	5150.0	23.6			G3/7500
FVH	(80°-90°)	124.2	0.6			G2/225
BL	(0°-30°)	1429.4	6.5	B3/2500		
BM	(30°-60°)	2618.1	12.0	B3/5000		
BH	(60°-80°)	1187.2	5.4	B3/2500		G3/2500
BVH	(80°-90°)	83.4	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°	3580.0	3580.0	3580.0	3580.0	3580.0	3580.0	3580.0	3580.0	3580.0	3580.0	3580.0
2.5°	3568.7	3563.1	3574.4	3591.2	3599.6	3585.6	3580.0	3577.2	3577.2	3568.7	3582.8
5°	3400.1	3397.3	3422.6	3453.5	3512.5	3554.7	3610.9	3644.6	3633.4	3616.5	3627.7
7.5°	3181.0	3175.3	3206.2	3265.3	3346.7	3439.5	3577.2	3683.9	3726.1	3720.5	3717.7
10°	3265.3	3259.6	3256.8	3240.0	3268.1	3358.0	3501.3	3689.6	3832.9	3835.7	3838.5
12.5°	3557.5	3571.5	3557.5	3504.1	3442.3	3408.6	3492.9	3703.6	3922.8	3939.7	4009.9
15°	3956.5	3942.5	3914.4	3852.5	3757.0	3655.8	3594.0	3768.2	4052.1	4066.1	4220.7
17.5°	4307.8	4319.0	4302.2	4243.1	4130.7	3998.7	3810.4	3880.6	4189.8	4229.1	4445.5
20°	4689.9	4734.9	4712.4	4639.4	4546.6	4349.9	4113.9	4043.6	4341.5	4369.6	4678.7
22.5°	5131.1	5178.9	5136.7	5066.5	4990.6	4748.9	4445.5	4243.1	4467.9	4527.0	4903.5
25°	5659.4	5704.4	5665.0	5555.4	5459.9	5164.8	4802.3	4467.9	4591.6	4656.2	5086.1
27.5°	6078.1	6111.8	6148.3	6083.7	5937.6	5631.3	5173.3	4701.2	4715.2	4782.7	5254.8
30°	6451.8	6536.1	6567.0	6575.5	6451.8	6109.0	5552.6	4942.8	4822.0	4892.3	5423.4
32.5°	6963.2	7089.7	7039.1	7089.7	7016.6	6558.6	5946.0	5192.9	4959.7	5024.3	5583.5
35°	7710.7	7811.9	7679.8	7640.5	7522.4	7013.8	6325.4	5451.5	5142.3	5212.6	5735.3
37.5°	8514.4	8629.6	8438.5	8281.1	8056.3	7463.4	6651.3	5791.5	5395.3	5451.5	5875.8
40°	9216.9	9312.4	9146.6	8938.7	8562.2	7859.6	6932.3	6030.3	5648.2	5718.4	6038.7
42.5°	9866.0	9927.8	9742.4	9542.9	9039.9	8216.5	7235.8	6283.2	5943.2	6010.6	6170.8
45°	10523.6	10571.3	10312.8	10029.0	9438.9	8542.5	7570.2	6637.3	6376.0	6465.9	6384.4
47.5°	10641.6	10655.6	10610.7	10419.6	9753.6	8854.4	7983.3	7112.2	7036.3	7134.7	6752.5
50°	9823.9	9950.3	10228.5	10416.8	9880.1	9115.7	8396.4	7792.2	7946.8	8073.2	7516.8
52.5°	8236.2	8357.0	9000.5	9714.3	9576.6	9174.7	8840.3	8654.9	9230.9	9382.7	8556.5
55°	6561.4	6668.2	7348.2	8376.7	8595.9	8905.0	9315.2	9756.4	10869.2	10970.3	9697.4
57.5°	5403.7	5462.7	5948.8	6938.0	7289.2	8042.3	9571.0	11065.9	12535.5	12690.1	10689.3
60°	4431.4	4496.0	4858.5	5673.4	6139.9	6808.7	9368.6	12358.5	14525.0	14525.0	11962.3
62.5°	3335.5	3391.7	3728.9	4366.8	5150.8	5763.4	8722.3	13215.6	16025.6	15958.1	12884.0
65°	2290.2	2335.1	2579.6	3003.9	3709.2	4911.9	7840.0	13226.8	17020.3	16930.4	13277.4
66°	1922.1	1961.4	2169.3	2512.2	3105.1	4456.7	7528.1	12987.9	17228.3	17101.8	13111.6
67.5°	1517.4	1545.5	1683.2	1885.5	2276.1	3608.1	7036.3	12310.7	17208.6	17132.7	12690.1
70°	1084.7	1104.3	1205.5	1247.7	1346.0	2087.8	5589.1	10782.1	15828.9	15851.4	11032.2
72.5°	840.2	871.1	932.9	941.4	918.9	1110.0	3391.7	8994.9	12948.6	12940.2	8188.4
75°	677.2	694.1	725.0	741.8	736.2	716.6	1435.9	6710.3	8913.4	9017.4	4586.0
77.5°	533.9	531.1	559.2	581.7	598.5	562.0	657.5	3934.0	4673.1	4541.0	1722.5
80°	393.4	393.4	432.7	441.2	466.5	472.1	438.4	1517.4	1604.5	1458.4	446.8
82.5°	258.5	258.5	300.7	306.3	331.6	368.1	317.5	455.2	444.0	421.5	202.3
85°	140.5	134.9	148.9	168.6	182.7	216.4	191.1	227.6	233.2	230.4	134.9
87.5°	28.1	25.3	39.3	45.0	50.6	67.4	61.8	92.7	129.3	126.5	59.0
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°	3580.0	3580.0	3580.0	3580.0	3580.0	3580.0	3580.0	3580.0	3580.0	3580.0	3580.0
2.5°	3602.5	3599.6	3630.6	3667.1	3709.2	3734.5	3745.8	3765.4	3751.4	3757.0	3773.9
5°	3655.8	3664.3	3709.2	3757.0	3776.7	3762.6	3731.7	3720.5	3695.2	3689.6	3683.9
7.5°	3734.5	3748.6	3793.5	3804.8	3745.8	3647.4	3577.2	3537.8	3495.7	3484.4	3478.8
10°	3863.8	3872.2	3883.5	3768.2	3622.1	3490.1	3402.9	3366.4	3338.3	3315.8	3321.5
12.5°	4026.8	4021.1	3934.0	3695.2	3487.2	3352.4	3293.4	3270.9	3251.2	3237.2	3234.3
15°	4231.9	4192.6	3942.5	3594.0	3360.8	3248.4	3206.2	3197.8	3175.3	3175.3	3172.5
17.5°	4439.8	4338.7	3936.8	3487.2	3240.0	3178.1	3152.9	3147.2	3141.6	3138.8	3147.2
20°	4647.8	4467.9	3891.9	3355.2	3155.7	3119.1	3113.5	3116.3	3110.7	3119.1	3113.5
22.5°	4830.4	4552.2	3807.6	3214.7	3096.6	3093.8	3079.8	3085.4	3105.1	3107.9	3116.3
25°	4970.9	4583.2	3683.9	3085.4	3054.5	3048.9	3065.7	3088.2	3105.1	3107.9	3121.9
27.5°	5086.1	4566.3	3529.4	2984.2	2981.4	3012.3	3062.9	3071.4	3074.2	3074.2	3062.9
30°	5173.3	4529.8	3332.7	2871.8	2885.9	2961.8	3009.5	3009.5	2987.1	2981.4	2998.3
32.5°	5192.9	4482.0	3119.1	2756.6	2779.1	2869.0	2928.0	2908.4	2883.1	2883.1	2894.3
35°	5209.8	4417.4	2947.7	2599.3	2633.0	2739.8	2796.0	2756.6	2728.5	2720.1	2717.3
37.5°	5204.2	4392.1	2793.2	2399.8	2444.7	2548.7	2585.2	2548.7	2506.5	2486.9	2512.2
40°	5209.8	4375.2	2599.3	2180.6	2225.5	2287.4	2335.1	2307.0	2267.7	2217.1	2242.4
42.5°	5243.5	4397.7	2385.7	1967.0	1967.0	2000.7	2082.2	2062.6	1967.0	1947.3	1969.8
45°	5423.4	4518.5	2172.2	1753.5	1722.5	1745.0	1829.3	1745.0	1686.0	1686.0	1705.7
47.5°	5858.9	4743.3	1983.9	1565.2	1492.1	1537.1	1559.6	1480.9	1435.9	1424.7	1444.4
50°	6746.9	5192.9	1871.5	1410.6	1320.7	1354.4	1340.4	1337.6	1292.6	1298.2	1309.5
52.5°	8095.7	6069.7	1837.8	1334.8	1222.4	1230.8	1216.7	1222.4	1213.9	1242.0	1250.5
55°	9565.3	6994.2	1879.9	1346.0	1154.9	1095.9	1101.5	1129.6	1163.4	1208.3	1216.7
57.5°	10664.1	7457.8	1989.5	1421.9	1070.6	980.7	994.7	1048.1	1112.8	1149.3	1169.0
60°	11481.8	7401.6	2149.7	1441.5	969.5	876.7	902.0	980.7	1036.9	1067.8	1087.5
62.5°	11748.7	7050.4	2189.0	1298.2	837.4	778.4	840.2	921.7	947.0	980.7	994.7
65°	11529.5	6553.0	1902.4	1053.8	736.2	705.3	795.2	857.1	890.8	907.6	910.4
66°	11271.0	6255.1	1747.8	958.2	699.7	682.8	778.4	829.0	862.7	859.9	862.7
67.5°	10703.4	5631.3	1497.7	823.3	646.3	649.1	750.3	784.0	795.2	786.8	786.8
70°	8772.9	3964.9	1073.4	623.8	567.6	607.0	674.4	682.8	708.1	696.9	696.9
72.5°	5409.3	1947.3	719.4	477.7	505.8	567.6	564.8	592.9	651.9	668.8	680.0
75°	2658.3	789.6	474.9	404.6	452.4	474.9	469.3	539.5	623.8	696.9	722.2
77.5°	1008.8	393.4	331.6	354.1	365.3	356.9	373.7	488.9	623.8	755.9	781.2
80°	311.9	272.6	261.3	292.2	275.4	261.3	281.0	404.6	528.3	573.2	573.2
82.5°	188.3	213.6	202.3	199.5	185.5	188.3	202.3	289.4	407.5	427.1	427.1
85°	132.1	140.5	115.2	109.6	106.8	104.0	104.0	168.6	241.7	238.9	247.3
87.5°	50.6	56.2	42.2	42.2	39.3	28.1	22.5	28.1	28.1	19.7	14.1
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)