

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: P1211096

Luminaire Tested: **ARCH4-170-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-170-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1380mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18279 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 169.8
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



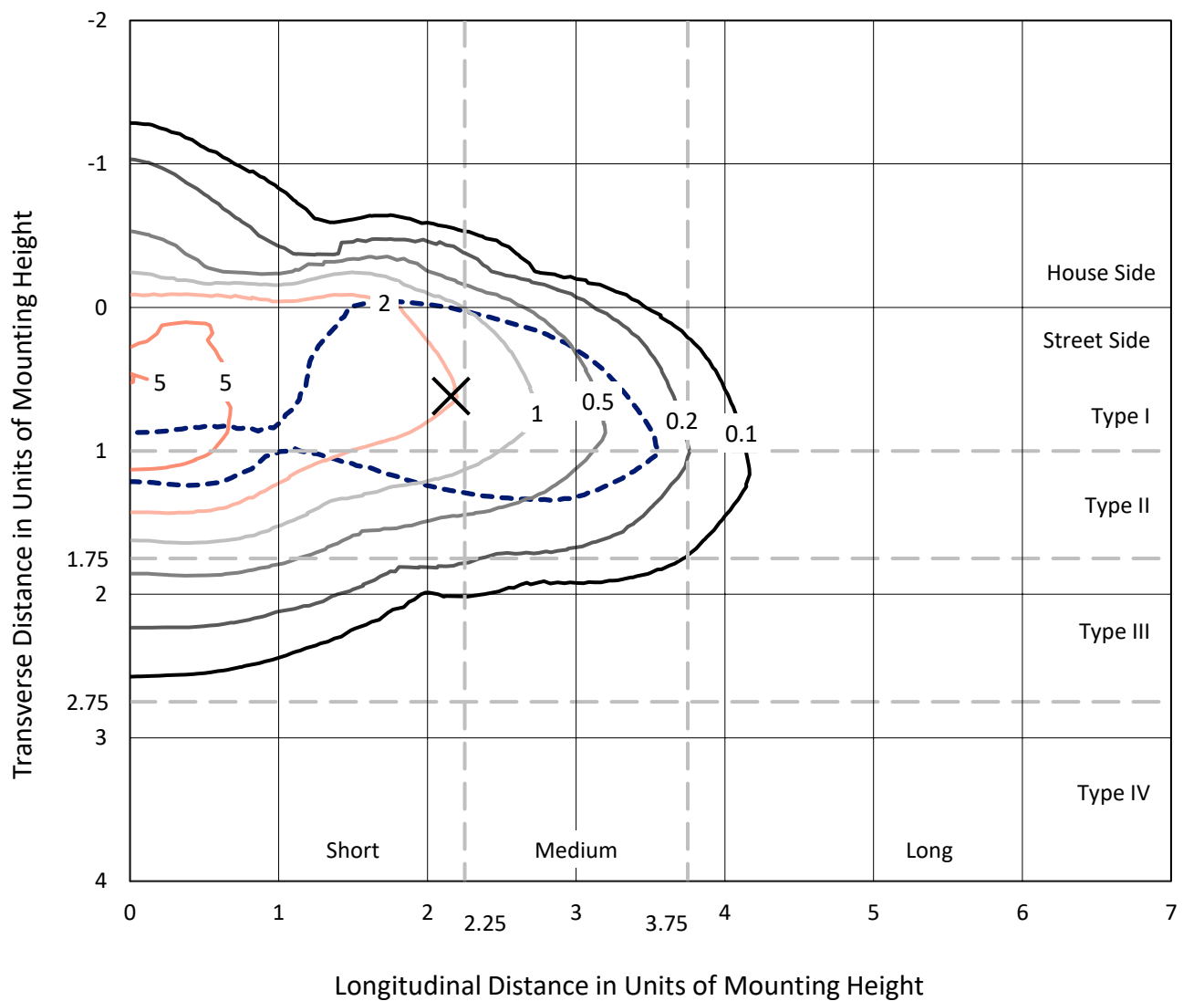
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

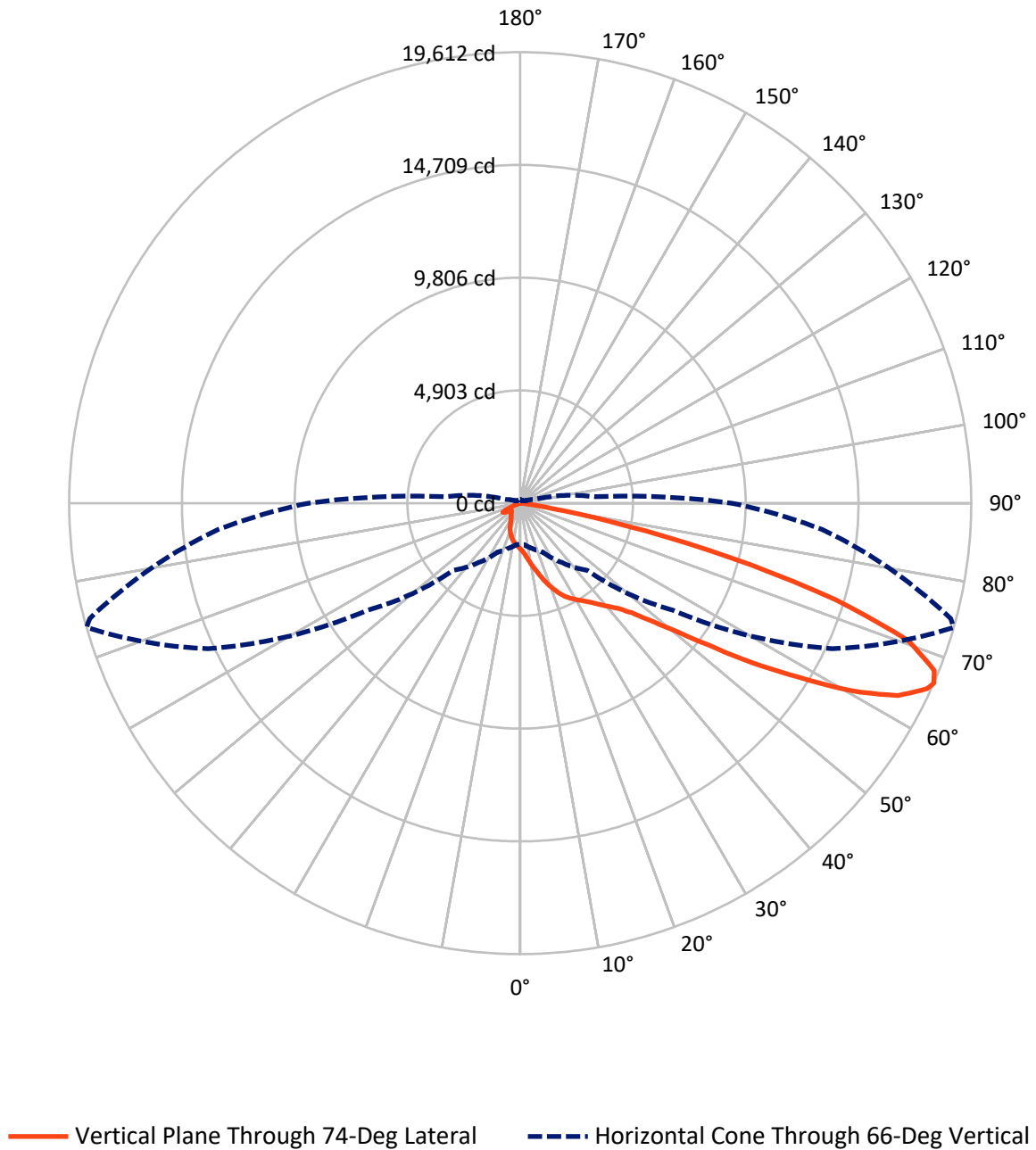
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1791.9	0.0	1791.9
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	16487.1	0.0	16487.1
	% Fixture	90.2	0.0	90.2
Total	Lumens	18279.0	0.0	18279.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.8	1.1
10°-20°	624.4	3.4
20°-30°	1191.5	6.5
30°-40°	2088.5	11.4
40°-50°	3581.2	19.6
50°-60°	4657.6	25.5
60°-70°	4216.3	23.1
70°-80°	1626.9	8.9
80°-90°	97.9	0.5
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°	18279.0	100.0
0°-180°	18279.0	100.0

Coefficient of Utilization



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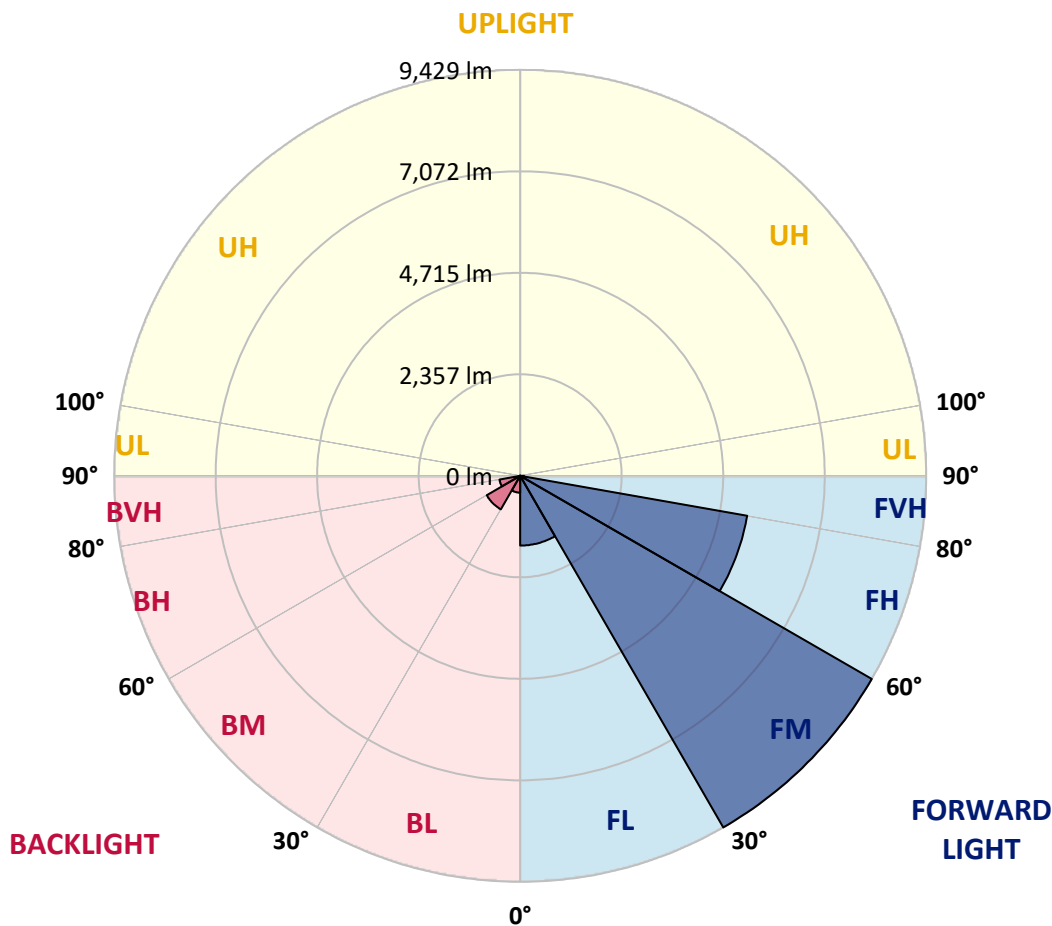
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1619.8	8.9			
FM	(30°-60°)	9429.2	51.6			
FH	(60°-80°)	5353.3	29.3			G3/7500
FVH	(80°-90°)	84.8	0.5			G1/100
BL	(0°-30°)	390.9	2.1	B1/500		
BM	(30°-60°)	898.0	4.9	B1/1000		
BH	(60°-80°)	489.9	2.7	B1/500		G1/500
BVH	(80°-90°)	13.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1995.3	1995.3	1995.3	1995.3	1995.3	1995.3	1995.3	1995.3	1995.3	1995.3	1995.3
2.5°	2395.7	2376.0	2339.9	2336.6	2307.1	2271.0	2208.6	2143.0	2097.0	2090.5	2034.7
5°	2868.3	2858.4	2822.3	2799.3	2743.6	2658.2	2513.8	2369.4	2248.0	2234.9	2110.2
7.5°	2993.0	2999.5	3006.1	3029.1	3009.4	2970.0	2861.7	2658.2	2467.9	2438.3	2221.8
10°	3012.7	3006.1	3006.1	3035.6	3091.4	3147.2	3134.1	2960.1	2714.0	2677.9	2376.0
12.5°	3226.0	3235.8	3212.8	3199.7	3189.9	3219.4	3317.9	3242.4	2973.3	2943.7	2563.1
15°	3501.6	3498.4	3465.5	3465.5	3436.0	3386.8	3449.1	3504.9	3285.0	3248.9	2776.4
17.5°	3701.8	3715.0	3711.7	3731.4	3721.5	3655.9	3623.1	3737.9	3606.7	3560.7	3019.2
20°	3862.6	3898.7	3911.9	3974.2	4003.7	3957.8	3872.5	3944.7	3915.1	3872.5	3265.4
22.5°	4033.3	4062.8	4085.8	4194.1	4276.1	4266.3	4158.0	4141.6	4213.8	4174.4	3508.2
25°	4203.9	4217.1	4286.0	4417.3	4548.5	4581.3	4469.8	4341.8	4482.9	4446.8	3724.8
27.5°	4391.0	4397.6	4479.6	4640.4	4824.2	4893.1	4804.5	4568.2	4689.6	4689.6	3921.7
30°	4732.3	4797.9	4830.8	4975.2	5136.0	5231.1	5126.1	4807.8	4873.4	4903.0	4128.5
32.5°	5467.4	5477.3	5467.4	5529.8	5562.6	5618.4	5497.0	5076.9	5060.5	5093.3	4331.9
35°	6589.8	6550.4	6445.4	6353.5	6163.1	6058.1	5900.6	5421.5	5290.2	5336.1	4532.1
37.5°	7951.7	7895.9	7656.3	7374.1	6967.2	6547.1	6350.2	5841.5	5582.3	5641.3	4748.7
40°	9251.3	9215.2	8929.7	8581.8	7886.1	7167.4	6750.6	6196.0	5907.2	5930.1	4968.6
42.5°	10321.1	10314.6	10075.0	9710.7	8818.1	7836.8	7223.2	6543.8	6248.5	6284.6	5198.3
45°	11131.7	11069.4	10892.2	10629.6	9720.6	8532.6	7794.2	7072.2	6796.5	6839.2	5542.9
47.5°	11131.7	11141.6	11256.4	11230.2	10350.7	9185.6	8417.7	7738.4	7607.1	7646.5	6110.6
50°	10226.0	10317.9	10829.8	11259.7	10678.9	9694.3	9090.5	8572.0	8706.5	8765.6	7101.7
52.5°	8434.1	8588.4	9477.7	10459.0	10436.0	9950.3	9786.2	9632.0	10235.8	10340.8	8565.4
55°	6409.3	6511.0	7669.5	8959.2	9379.3	9740.3	10393.3	10977.5	12260.7	12237.7	10052.0
57.5°	4788.1	4883.3	5880.9	7311.8	7866.4	8831.2	10705.1	12516.6	14269.1	14357.7	11446.8
60°	3521.3	3593.5	4443.5	5618.4	6419.1	7439.8	10580.4	14032.8	16582.7	16481.0	12677.4
62.5°	2605.7	2645.1	3258.8	4023.4	5086.7	6061.4	9796.1	15069.8	18430.4	18223.6	13363.3
65°	2015.0	2028.1	2346.5	2753.4	3698.5	4712.6	8627.8	15227.4	19451.0	19231.1	13350.2
66°	1795.1	1805.0	2038.0	2353.0	3147.2	4125.2	8115.8	14974.7	19611.8	19378.8	13186.1
67.5°	1506.3	1499.8	1637.6	1844.3	2362.9	3183.3	7206.7	14236.3	19421.5	19303.3	12661.0
70°	1115.8	1119.1	1188.0	1237.2	1381.6	1762.3	5204.9	12349.3	17898.7	17892.2	11220.3
72.5°	827.0	836.8	889.4	899.2	863.1	955.0	2999.5	9822.3	14318.3	14321.6	8388.2
75°	620.3	636.7	653.1	659.6	626.8	603.8	1355.4	6609.5	9418.7	9349.7	4748.7
77.5°	472.6	479.1	492.3	482.4	475.9	416.8	564.5	3222.7	4650.3	4236.8	1539.1
80°	344.6	344.6	357.7	344.6	341.3	298.6	308.5	1033.8	1365.2	1135.5	331.5
82.5°	216.6	213.3	223.2	219.9	213.3	190.3	180.5	288.8	315.0	282.2	160.8
85°	121.4	118.1	114.9	111.6	101.7	85.3	98.5	108.3	144.4	147.7	114.9
87.5°	42.7	42.7	39.4	36.1	29.5	29.5	36.1	36.1	52.5	52.5	59.1
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°	1995.3	1995.3	1995.3	1995.3	1995.3	1995.3	1995.3	1995.3	1995.3	1995.3	1995.3
2.5°	2008.4	1972.3	1919.8	1850.9	1801.7	1752.5	1700.0	1670.4	1627.8	1617.9	1631.0
5°	2044.5	1978.9	1847.6	1703.2	1578.5	1466.9	1361.9	1299.6	1237.2	1214.3	1224.1
7.5°	2120.0	2008.4	1785.3	1552.3	1345.5	1178.2	1053.4	981.2	925.5	902.5	909.0
10°	2231.6	2060.9	1726.2	1381.6	1115.8	938.6	833.6	787.6	754.8	741.7	745.0
12.5°	2366.1	2136.4	1650.7	1211.0	918.9	764.7	715.4	705.6	699.0	692.5	695.7
15°	2517.1	2202.1	1562.1	1043.6	764.7	679.3	662.9	659.6	656.4	656.4	656.4
17.5°	2674.6	2261.1	1463.7	886.1	666.2	626.8	617.0	617.0	617.0	620.3	620.3
20°	2822.3	2307.1	1348.8	745.0	610.4	577.6	571.0	571.0	574.3	577.6	577.6
22.5°	2966.7	2326.8	1214.3	646.5	564.5	534.9	525.1	525.1	525.1	528.4	528.4
25°	3091.4	2326.8	1079.7	584.2	525.1	495.5	482.4	479.1	482.4	482.4	482.4
27.5°	3196.4	2316.9	948.4	541.5	485.7	456.2	443.0	439.8	446.3	449.6	449.6
30°	3308.0	2303.8	843.4	502.1	452.9	423.3	410.2	410.2	420.1	433.2	433.2
32.5°	3416.3	2313.6	761.4	469.3	420.1	397.1	384.0	387.2	406.9	426.6	426.6
35°	3531.2	2333.3	712.1	446.3	397.1	374.1	364.3	374.1	393.8	413.5	413.5
37.5°	3646.0	2356.3	682.6	426.6	377.4	354.4	347.9	361.0	384.0	403.7	406.9
40°	3767.5	2376.0	649.8	406.9	364.3	338.0	334.7	347.9	377.4	397.1	400.4
42.5°	3918.4	2415.4	610.4	390.5	351.1	318.3	321.6	331.5	361.0	390.5	393.8
45°	4213.8	2540.1	571.0	374.1	334.7	308.5	301.9	308.5	341.3	374.1	380.7
47.5°	4768.4	2822.3	528.4	357.7	318.3	301.9	275.7	282.2	311.8	347.9	351.1
50°	5831.7	3422.9	505.4	341.3	305.2	278.9	249.4	249.4	272.4	305.2	305.2
52.5°	7489.0	4499.3	518.5	328.2	288.8	256.0	226.4	223.2	236.3	259.3	259.3
55°	9277.5	5680.7	567.7	315.0	269.1	242.9	210.0	193.6	203.5	216.6	216.6
57.5°	10695.3	6274.7	702.3	308.5	246.1	233.0	190.3	167.4	177.2	190.3	190.3
60°	11318.8	5926.9	853.3	315.0	229.7	216.6	170.7	147.7	164.1	177.2	180.5
62.5°	10813.4	4880.0	915.6	298.6	206.8	193.6	167.4	137.8	157.5	167.4	170.7
65°	9720.6	3708.4	715.4	259.3	190.3	167.4	151.0	131.3	147.7	157.5	157.5
66°	9202.1	3232.5	610.4	239.6	183.8	157.5	144.4	131.3	144.4	151.0	154.2
67.5°	8398.0	2549.9	452.9	210.0	170.7	144.4	134.6	124.7	137.8	144.4	144.4
70°	6566.8	1519.5	272.4	164.1	147.7	128.0	121.4	114.9	124.7	128.0	128.0
72.5°	4112.0	722.0	173.9	121.4	124.7	121.4	101.7	108.3	111.6	114.9	114.9
75°	1992.0	285.5	118.1	88.6	101.7	114.9	82.0	95.2	98.5	105.0	101.7
77.5°	554.6	137.8	75.5	65.6	88.6	88.6	62.4	75.5	88.6	111.6	101.7
80°	160.8	88.6	49.2	49.2	62.4	62.4	42.7	52.5	59.1	65.6	68.9
82.5°	111.6	59.1	32.8	36.1	36.1	39.4	26.3	26.3	32.8	32.8	36.1
85°	88.6	26.3	19.7	23.0	16.4	19.7	13.1	13.1	16.4	13.1	13.1
87.5°	36.1	13.1	13.1	13.1	9.8	9.8	6.6	3.3	3.3	3.3	3.3
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)