

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: P1211357

Luminaire Tested: **ARCH4-250-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211357
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: ARCH4-250-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 975mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35634 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.5
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



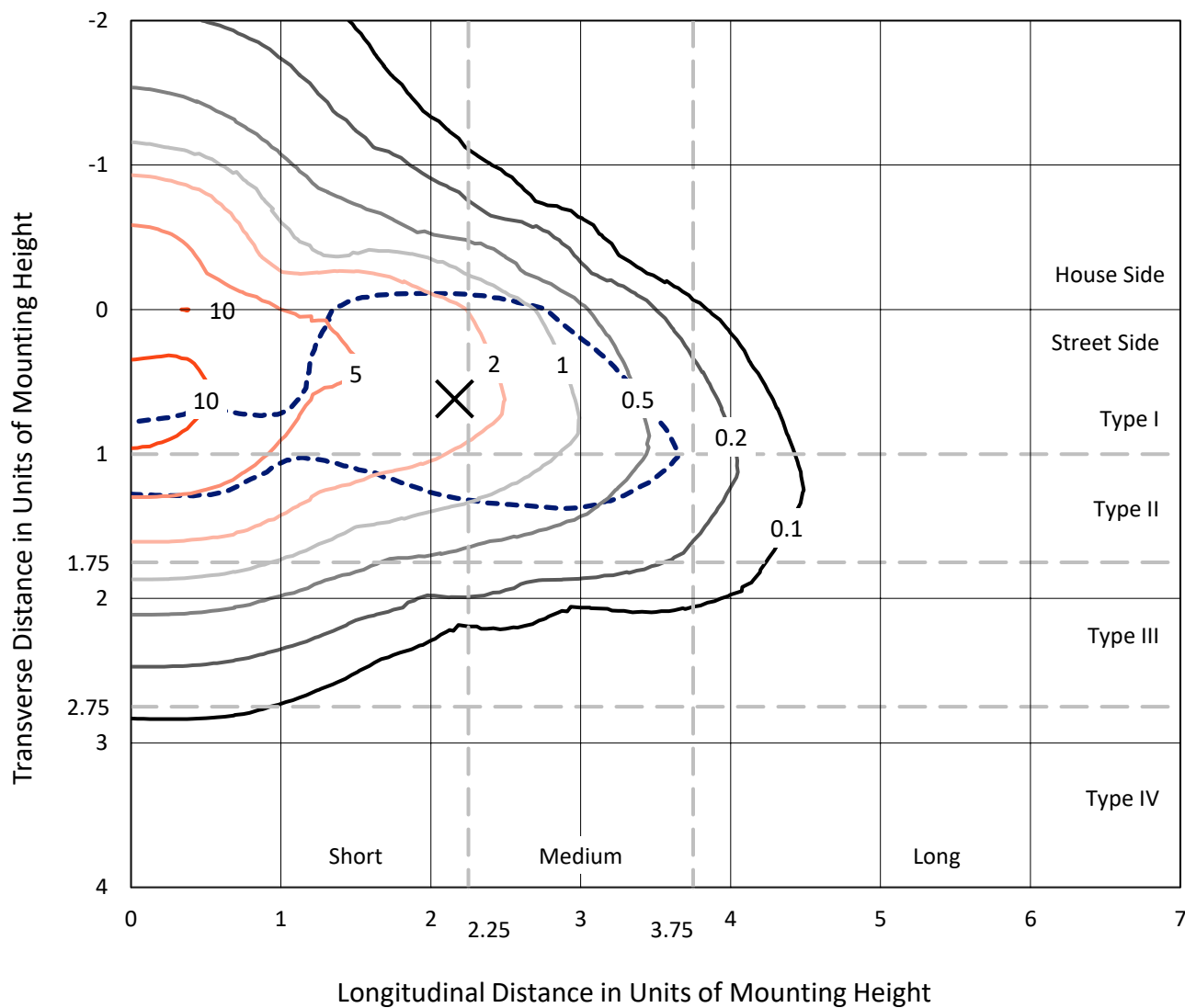
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Iso-Footcandle Lines of Horizontal Illumination

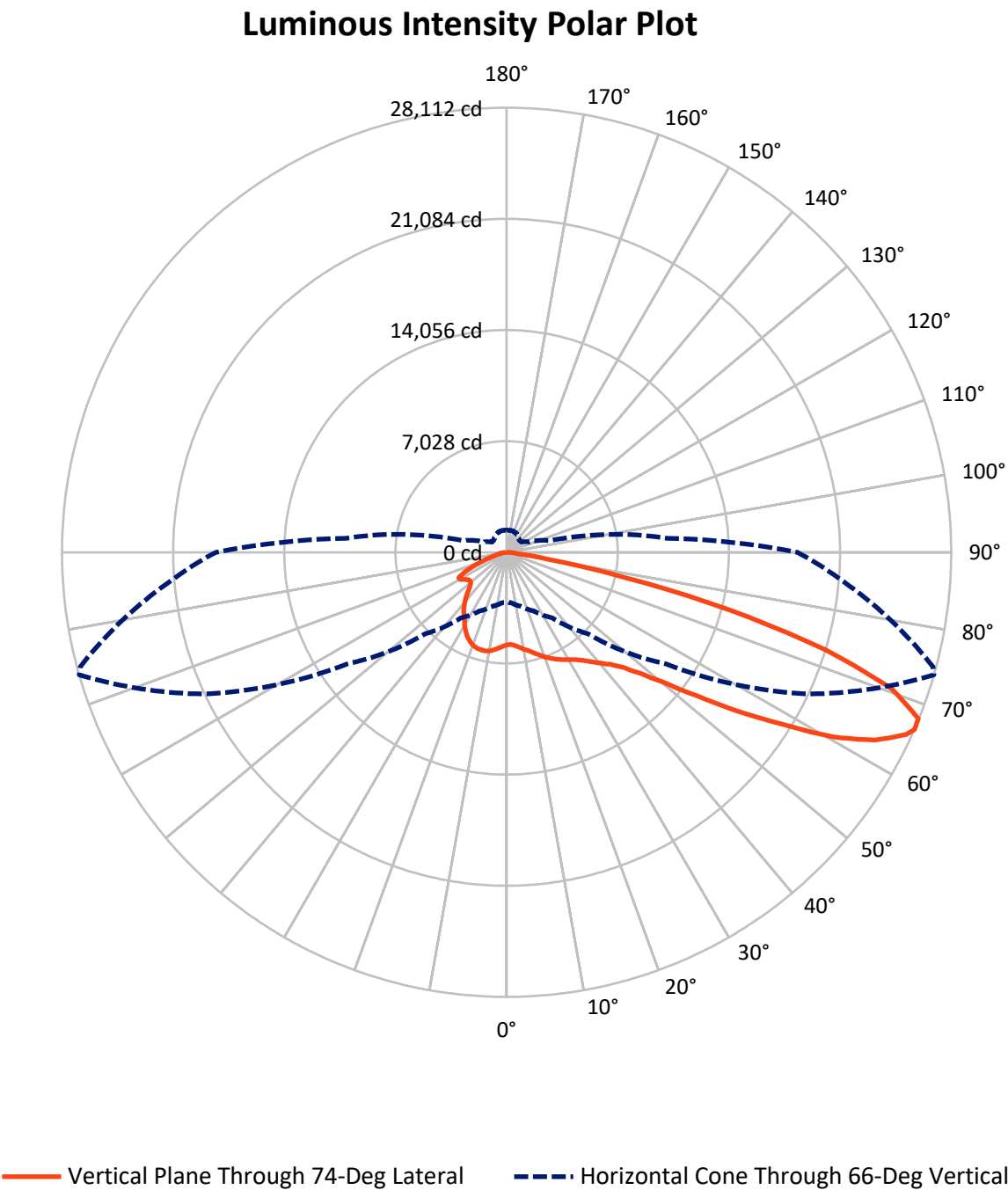
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8677.8	0.0	8677.8
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	26956.2	0.0	26956.2
	% Fixture	75.6	0.0	75.6
Total	Lumens	35634.0	0.0	35634.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.2	1.6
10°-20°	1713.6	4.8
20°-30°	3215.6	9.0
30°-40°	4946.4	13.9
40°-50°	6653.3	18.7
50°-60°	7868.3	22.1
60°-70°	7278.6	20.4
70°-80°	3062.1	8.6
80°-90°	338.8	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°	35634.0	100.0
0°-180°	35634.0	100.0

Coefficient of Utilization



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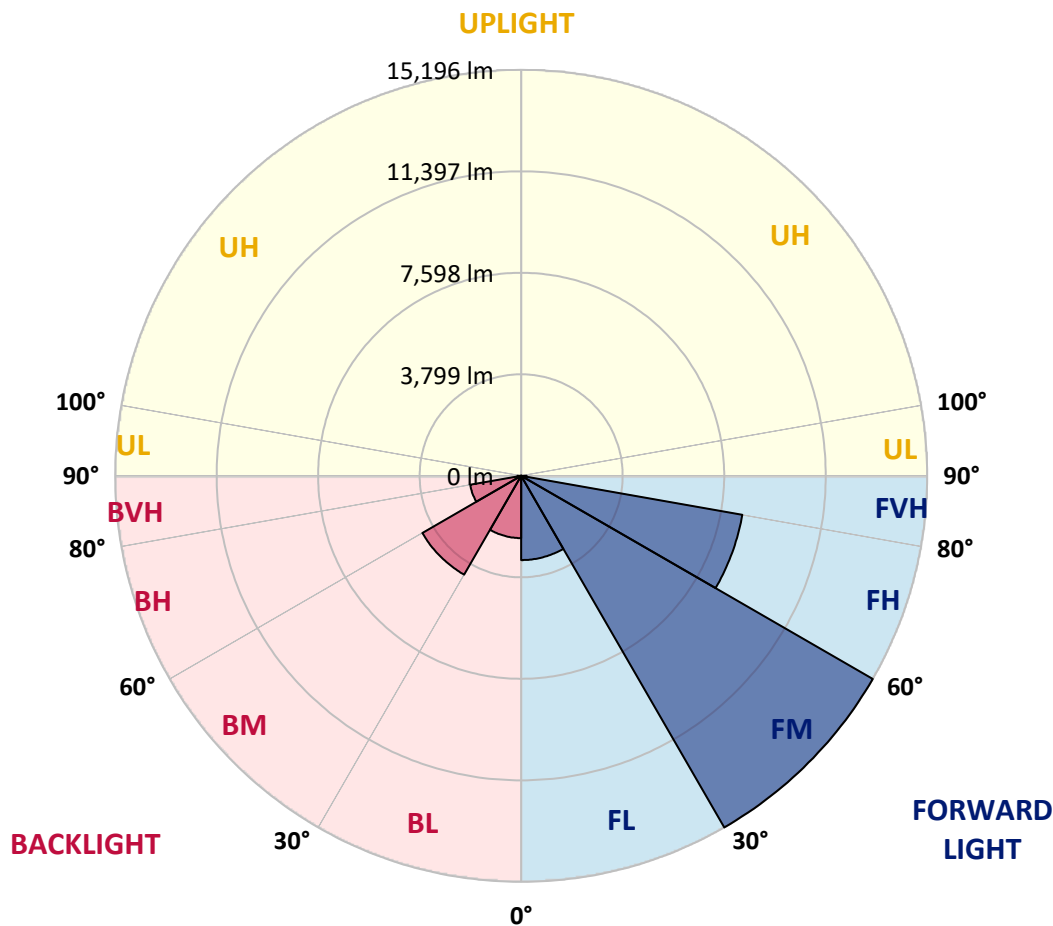
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3154.0	8.9			
FM	(30°-60°)	15195.9	42.6			
FH	(60°-80°)	8403.5	23.6			G4/12000
FVH	(80°-90°)	202.7	0.6			G2/225
BL	(0°-30°)	2332.4	6.5	B3/2500		
BM	(30°-60°)	4272.1	12.0	B3/5000		
BH	(60°-80°)	1937.2	5.4	B3/2500		G3/2500
BVH	(80°-90°)	136.1	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	5841.6	5841.6	5841.6	5841.6	5841.6	5841.6	5841.6	5841.6	5841.6	5841.6	5841.6
2.5°	5823.3	5814.1	5832.4	5859.9	5873.7	5850.8	5841.6	5837.0	5837.0	5823.3	5846.2
5°	5548.1	5543.6	5584.8	5635.3	5731.6	5800.3	5892.0	5947.1	5928.7	5901.2	5919.5
7.5°	5190.5	5181.3	5231.8	5328.1	5461.0	5612.3	5837.0	6011.3	6080.0	6070.9	6066.3
10°	5328.1	5318.9	5314.3	5286.8	5332.6	5479.4	5713.2	6020.4	6254.3	6258.9	6263.4
12.5°	5804.9	5827.8	5804.9	5717.8	5616.9	5561.9	5699.5	6043.3	6401.0	6428.5	6543.1
15°	6456.0	6433.1	6387.2	6286.4	6130.5	5965.4	5864.5	6148.8	6611.9	6634.8	6887.0
17.5°	7029.2	7047.5	7020.0	6923.7	6740.3	6524.8	6217.6	6332.2	6836.6	6900.8	7253.9
20°	7652.8	7726.1	7689.4	7570.2	7418.9	7098.0	6712.8	6598.2	7084.2	7130.1	7634.4
22.5°	8372.7	8450.6	8381.8	8267.2	8143.4	7749.1	7253.9	6923.7	7290.5	7386.8	8001.2
25°	9234.7	9308.0	9243.8	9065.0	8909.1	8427.7	7836.2	7290.5	7492.3	7597.7	8299.3
27.5°	9917.9	9972.9	10032.5	9927.0	9688.6	9188.8	8441.4	7671.1	7694.0	7804.1	8574.4
30°	10527.7	10665.3	10715.7	10729.5	10527.7	9968.3	9060.4	8065.4	7868.3	7982.9	8849.5
32.5°	11362.2	11568.6	11486.0	11568.6	11449.3	10702.0	9702.4	8473.5	8093.0	8198.4	9110.9
35°	12581.9	12747.0	12531.5	12467.3	12274.7	11444.8	10321.4	8895.4	8391.0	8505.6	9358.5
37.5°	13893.3	14081.3	13769.5	13512.7	13145.9	12178.4	10853.3	9450.2	8803.7	8895.4	9587.7
40°	15039.6	15195.5	14925.0	14585.7	13971.2	12824.9	11311.8	9839.9	9216.3	9331.0	9853.7
42.5°	16098.8	16199.7	15897.0	15571.5	14750.7	13407.2	11807.0	10252.6	9697.8	9807.8	10069.2
45°	17171.7	17249.7	16827.8	16364.7	15401.8	13939.1	12352.6	10830.3	10403.9	10550.6	10417.7
47.5°	17364.3	17387.2	17313.9	17002.1	15915.4	14448.1	13026.7	11605.2	11481.4	11641.9	11018.3
50°	16030.0	16236.3	16690.3	16997.5	16121.7	14874.5	13700.7	12714.9	12967.1	13173.4	12265.5
52.5°	13439.3	13636.5	14686.5	15851.2	15626.5	14970.8	14425.2	14122.5	15062.5	15310.1	13962.1
55°	10706.5	10880.8	11990.4	13668.6	14026.3	14530.6	15200.1	15920.0	17735.7	17900.8	15823.7
57.5°	8817.4	8913.7	9707.0	11321.0	11894.1	13123.0	15617.3	18056.7	20454.8	20706.9	17442.3
60°	7230.9	7336.4	7927.9	9257.6	10018.8	11110.0	15287.2	20165.9	23701.1	23701.1	19519.4
62.5°	5442.7	5534.4	6084.6	7125.5	8404.7	9404.3	14232.6	21564.4	26149.6	26039.6	21023.3
65°	3737.0	3810.3	4209.3	4901.6	6052.5	8015.0	12792.8	21582.7	27772.8	27626.1	21665.3
66°	3136.3	3200.5	3539.8	4099.2	5066.7	7272.2	12283.9	21193.0	28112.1	27905.8	21394.7
67.5°	2476.0	2521.9	2746.6	3076.7	3714.0	5887.4	11481.4	20087.9	28080.0	27956.2	20706.9
70°	1769.9	1802.0	1967.1	2035.8	2196.3	3406.8	9120.0	17593.6	25828.7	25865.3	18001.7
72.5°	1371.0	1421.4	1522.3	1536.1	1499.4	1811.2	5534.4	14677.4	21128.8	21115.0	13361.4
75°	1105.0	1132.6	1183.0	1210.5	1201.3	1169.2	2343.1	10949.6	14544.4	14714.0	7483.1
77.5°	871.2	866.6	912.5	949.1	976.7	917.0	1072.9	6419.3	7625.3	7409.7	2810.8
80°	641.9	641.9	706.1	719.9	761.2	770.3	715.3	2476.0	2618.2	2379.7	729.1
82.5°	421.8	421.8	490.6	499.8	541.1	600.7	518.1	742.8	724.5	687.8	330.1
85°	229.3	220.1	243.0	275.1	298.0	353.1	311.8	371.4	380.6	376.0	220.1
87.5°	45.9	41.3	64.2	73.4	82.5	110.0	100.9	151.3	210.9	206.3	96.3
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°	5841.6	5841.6	5841.6	5841.6	5841.6	5841.6	5841.6	5841.6	5841.6	5841.6	5841.6
2.5°	5878.3	5873.7	5924.1	5983.7	6052.5	6093.8	6112.1	6144.2	6121.3	6130.5	6158.0
5°	5965.4	5979.2	6052.5	6130.5	6162.6	6139.6	6089.2	6070.9	6029.6	6020.4	6011.3
7.5°	6093.8	6116.7	6190.1	6208.4	6112.1	5951.6	5837.0	5772.8	5704.0	5685.7	5676.5
10°	6304.7	6318.5	6336.8	6148.8	5910.4	5694.9	5552.7	5493.1	5447.3	5410.6	5419.8
12.5°	6570.7	6561.5	6419.3	6029.6	5690.3	5470.2	5373.9	5337.2	5305.1	5282.2	5277.6
15°	6905.4	6841.2	6433.1	5864.5	5483.9	5300.5	5231.8	5218.0	5181.3	5181.3	5176.7
17.5°	7244.7	7079.6	6423.9	5690.3	5286.8	5185.9	5144.6	5135.5	5126.3	5121.7	5135.5
20°	7584.0	7290.5	6350.6	5474.8	5149.2	5089.6	5080.4	5085.0	5075.9	5089.6	5080.4
22.5°	7882.0	7428.1	6213.0	5245.5	5052.9	5048.4	5025.4	5034.6	5066.7	5071.3	5085.0
25°	8111.3	7478.5	6011.3	5034.6	4984.2	4975.0	5002.5	5039.2	5066.7	5071.3	5094.2
27.5°	8299.3	7451.0	5759.1	4869.5	4864.9	4915.4	4997.9	5011.7	5016.3	5016.3	4997.9
30°	8441.4	7391.4	5438.1	4686.1	4709.0	4832.8	4910.8	4910.8	4874.1	4864.9	4892.5
32.5°	8473.5	7313.5	5089.6	4498.1	4534.8	4681.5	4777.8	4745.7	4704.5	4704.5	4722.8
35°	8501.0	7208.0	4809.9	4241.3	4296.4	4470.6	4562.3	4498.1	4452.3	4438.5	4433.9
37.5°	8491.9	7166.7	4557.7	3915.8	3989.2	4158.8	4218.4	4158.8	4090.0	4057.9	4099.2
40°	8501.0	7139.2	4241.3	3558.1	3631.5	3732.4	3810.3	3764.5	3700.3	3617.8	3659.0
42.5°	8556.1	7175.9	3892.9	3209.7	3209.7	3264.7	3397.7	3365.6	3209.7	3177.6	3214.3
45°	8849.5	7373.1	3544.4	2861.2	2810.8	2847.4	2985.0	2847.4	2751.1	2751.1	2783.2
47.5°	9560.2	7739.9	3237.2	2554.0	2434.8	2508.1	2544.8	2416.4	2343.1	2324.7	2356.8
50°	11009.2	8473.5	3053.8	2301.8	2155.1	2210.1	2187.2	2182.6	2109.2	2118.4	2136.7
52.5°	13210.1	9904.1	2998.7	2178.0	1994.6	2008.3	1985.4	1994.6	1980.8	2026.7	2040.4
55°	15608.2	11412.7	3067.5	2196.3	1884.5	1788.2	1797.4	1843.3	1898.3	1971.7	1985.4
57.5°	17401.0	12169.2	3246.4	2320.1	1747.0	1600.2	1623.2	1710.3	1815.8	1875.4	1907.5
60°	18735.3	12077.5	3507.7	2352.2	1581.9	1430.6	1471.9	1600.2	1692.0	1742.4	1774.5
62.5°	19170.9	11504.4	3571.9	2118.4	1366.4	1270.1	1371.0	1504.0	1545.2	1600.2	1623.2
65°	18813.2	10692.8	3104.2	1719.5	1201.3	1150.9	1297.6	1398.5	1453.5	1481.0	1485.6
66°	18391.4	10206.7	2852.0	1563.6	1141.7	1114.2	1270.1	1352.6	1407.7	1403.1	1407.7
67.5°	17465.2	9188.8	2443.9	1343.5	1054.6	1059.2	1224.3	1279.3	1297.6	1283.9	1283.9
70°	14315.1	6469.8	1751.6	1017.9	926.2	990.4	1100.5	1114.2	1155.5	1137.1	1137.1
72.5°	8826.6	3177.6	1173.8	779.5	825.3	926.2	921.6	967.5	1063.8	1091.3	1109.6
75°	4337.6	1288.5	774.9	660.3	738.2	774.9	765.7	880.4	1017.9	1137.1	1178.4
77.5°	1646.1	641.9	541.1	577.7	596.1	582.3	609.8	797.8	1017.9	1233.4	1274.7
80°	509.0	444.8	426.4	476.9	449.4	426.4	458.5	660.3	862.0	935.4	935.4
82.5°	307.2	348.5	330.1	325.6	302.6	307.2	330.1	472.3	664.9	697.0	697.0
85°	215.5	229.3	188.0	178.8	174.2	169.7	169.7	275.1	394.3	389.7	403.5
87.5°	82.5	91.7	68.8	68.8	64.2	45.9	36.7	45.9	45.9	32.1	22.9
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)