

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: P1211241

Luminaire Tested: **ARCH4-210-750-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211241
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: ARCH4-210-750-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 835mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32973 lumens
Efficiency: N/A
Efficacy: 154.7 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): 213.1
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



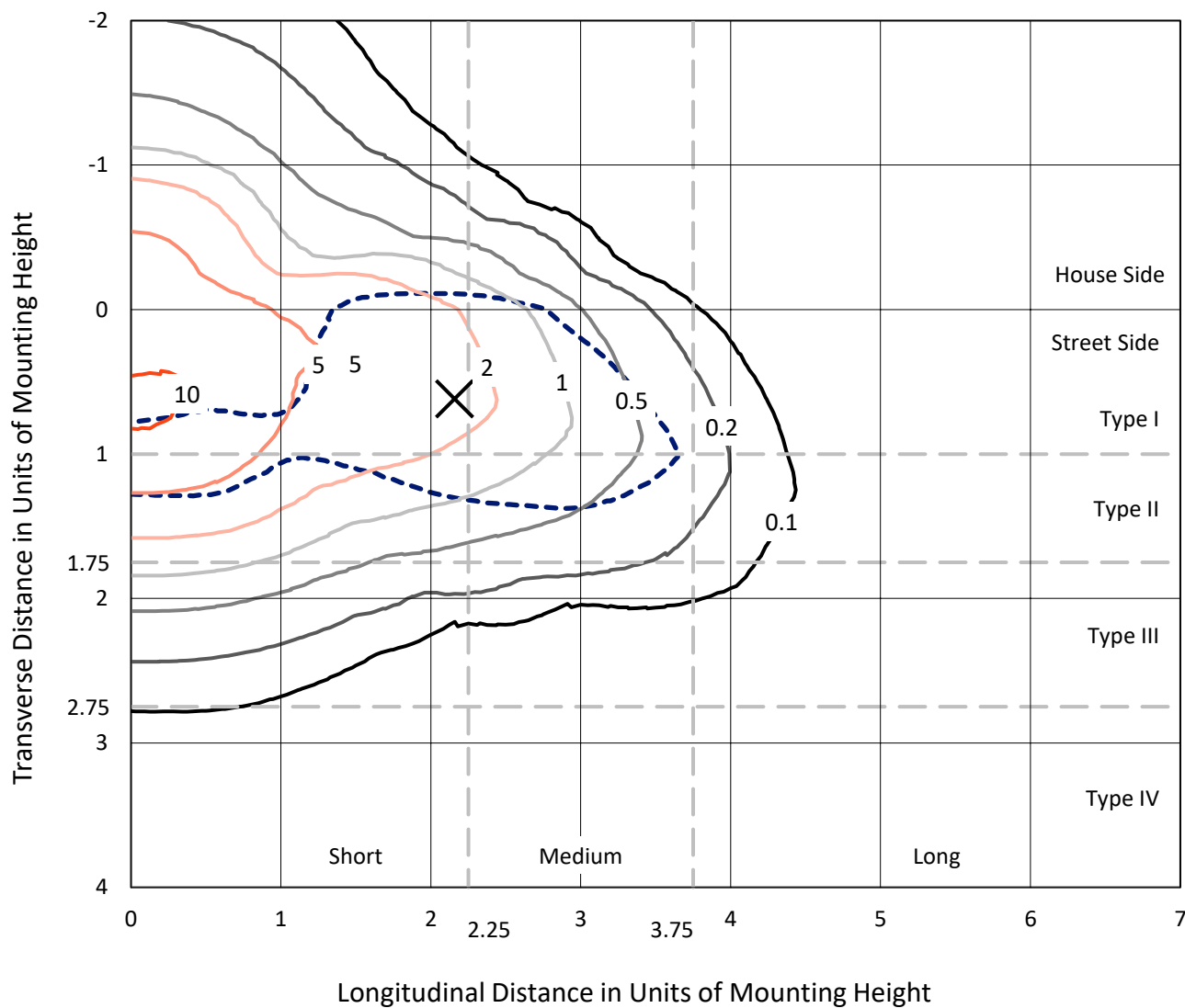
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Iso-Footcandle Lines of Horizontal Illumination

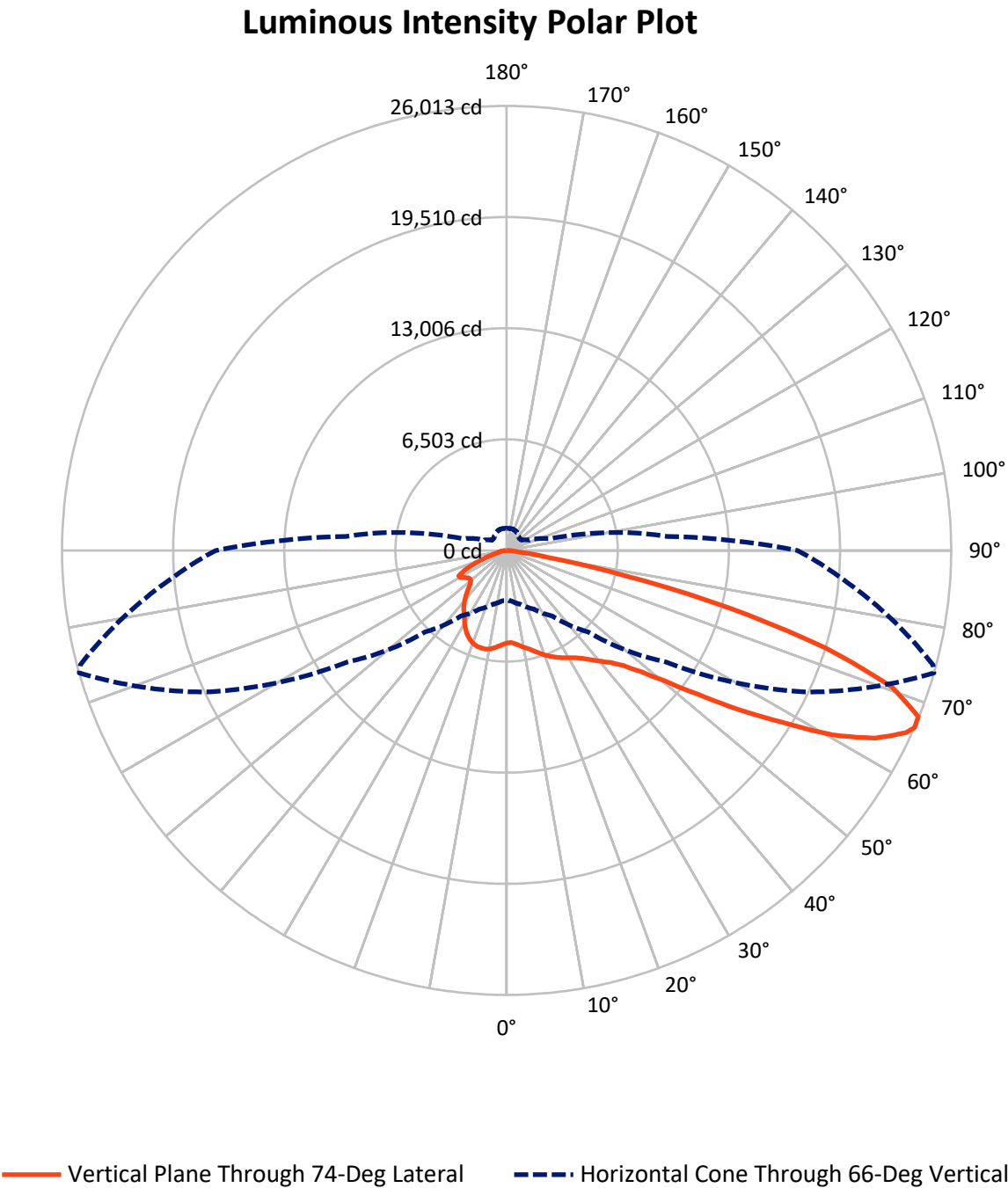
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8029.8	0.0	8029.8
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	24943.2	0.0	24943.2
	% Fixture	75.6	0.0	75.6
Total	Lumens	32973.0	0.0	32973.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.6	1.6
10°-20°	1585.6	4.8
20°-30°	2975.5	9.0
30°-40°	4577.0	13.9
40°-50°	6156.5	18.7
50°-60°	7280.7	22.1
60°-70°	6735.1	20.4
70°-80°	2833.4	8.6
80°-90°	313.5	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°	32973.0	100.0
0°-180°	32973.0	100.0

Coefficient of Utilization



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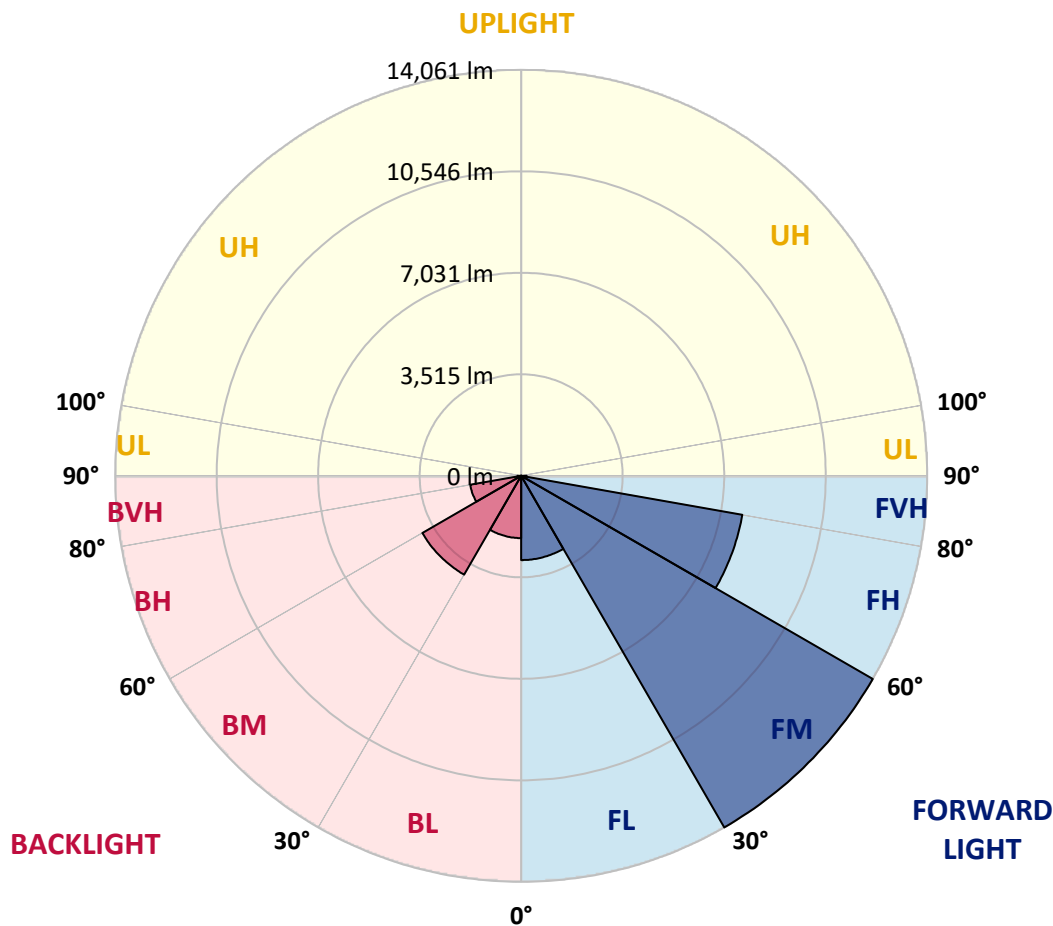
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2918.5	8.9			
FM	(30°-60°)	14061.1	42.6			
FH	(60°-80°)	7776.0	23.6			G4/12000
FVH	(80°-90°)	187.6	0.6			G2/225
BL	(0°-30°)	2158.2	6.5	B3/2500		
BM	(30°-60°)	3953.1	12.0	B3/5000		
BH	(60°-80°)	1792.5	5.4	B3/2500		G3/2500
BVH	(80°-90°)	126.0	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°	5405.4	5405.4	5405.4	5405.4	5405.4	5405.4	5405.4	5405.4	5405.4	5405.4	5405.4
2.5°	5388.4	5379.9	5396.9	5422.3	5435.1	5413.9	5405.4	5401.1	5401.1	5388.4	5409.6
5°	5133.8	5129.6	5167.8	5214.4	5303.5	5367.2	5452.0	5503.0	5486.0	5460.5	5477.5
7.5°	4802.9	4794.4	4841.1	4930.2	5053.2	5193.2	5401.1	5562.4	5626.0	5617.5	5613.3
10°	4930.2	4921.7	4917.4	4892.0	4934.4	5070.2	5286.6	5570.8	5787.2	5791.5	5795.7
12.5°	5371.4	5392.6	5371.4	5290.8	5197.5	5146.6	5273.8	5592.1	5923.0	5948.5	6054.5
15°	5973.9	5952.7	5910.3	5816.9	5672.7	5519.9	5426.6	5689.6	6118.2	6139.4	6372.7
17.5°	6504.3	6521.2	6495.8	6406.7	6237.0	6037.6	5753.3	5859.4	6326.1	6385.5	6712.2
20°	7081.3	7149.2	7115.2	7004.9	6864.9	6567.9	6211.5	6105.4	6555.2	6597.6	7064.3
22.5°	7747.4	7819.5	7755.9	7649.8	7535.3	7170.4	6712.2	6406.7	6746.1	6835.2	7403.7
25°	8545.1	8613.0	8553.6	8388.1	8243.8	7798.3	7251.0	6746.1	6932.8	7030.4	7679.5
27.5°	9177.3	9228.2	9283.3	9185.7	8965.1	8502.6	7811.1	7098.3	7119.5	7221.3	7934.1
30°	9741.5	9868.8	9915.5	9928.2	9741.5	9223.9	8383.8	7463.1	7280.7	7386.8	8188.7
32.5°	10513.7	10704.7	10628.3	10704.7	10594.4	9902.8	8977.8	7840.8	7488.6	7586.2	8430.5
35°	11642.3	11795.1	11595.7	11536.3	11358.1	10590.1	9550.6	8231.1	7764.4	7870.5	8659.6
37.5°	12855.8	13029.7	12741.2	12503.6	12164.2	11269.0	10042.8	8744.5	8146.2	8231.1	8871.8
40°	13916.5	14060.8	13810.4	13496.5	12927.9	11867.2	10467.1	9105.1	8528.1	8634.2	9117.9
42.5°	14896.6	14989.9	14709.9	14408.7	13649.2	12406.0	10925.3	9487.0	8973.6	9075.4	9317.3
45°	15889.4	15961.5	15571.2	15142.7	14251.7	12898.2	11430.2	10021.6	9627.0	9762.8	9639.7
47.5°	16067.6	16088.8	16020.9	15732.4	14726.9	13369.2	12053.9	10738.6	10624.1	10772.6	10195.5
50°	14832.9	15023.9	15443.9	15728.2	14917.8	13763.8	12677.6	11765.4	11998.7	12189.7	11349.6
52.5°	12435.7	12618.2	13589.8	14667.5	14459.6	13852.9	13348.0	13067.9	13937.7	14166.8	12919.4
55°	9907.0	10068.2	11095.0	12647.9	12978.8	13445.5	14065.0	14731.1	16411.3	16564.0	14642.0
57.5°	8159.0	8248.1	8982.1	10475.6	11005.9	12143.0	14451.1	16708.3	18927.3	19160.6	16139.7
60°	6690.9	6788.5	7335.9	8566.3	9270.6	10280.4	14145.6	18660.0	21931.2	21931.2	18061.7
62.5°	5036.2	5121.1	5630.2	6593.4	7777.1	8702.1	13169.8	19954.0	24196.9	24095.1	19453.4
65°	3457.9	3525.8	3894.9	4535.6	5600.5	7416.5	11837.5	19971.0	25698.8	25563.1	20047.4
66°	2902.1	2961.5	3275.5	3793.1	4688.3	6729.1	11366.6	19610.4	26012.8	25821.9	19797.1
67.5°	2291.1	2333.6	2541.5	2846.9	3436.7	5447.8	10624.1	18587.9	25983.1	25868.6	19160.6
70°	1637.7	1667.4	1820.2	1883.8	2032.3	3152.4	8439.0	16279.8	23899.9	23933.8	16657.4
72.5°	1268.6	1315.3	1408.6	1421.3	1387.4	1675.9	5121.1	13581.3	19551.0	19538.3	12363.6
75°	1022.5	1048.0	1094.7	1120.1	1111.6	1081.9	2168.1	10131.9	13458.3	13615.3	6924.3
77.5°	806.1	801.9	844.3	878.3	903.7	848.6	992.8	5940.0	7055.8	6856.4	2600.9
80°	594.0	594.0	653.4	666.1	704.3	712.8	661.9	2291.1	2422.7	2202.0	674.6
82.5°	390.3	390.3	454.0	462.5	500.7	555.8	479.4	687.3	670.4	636.4	305.5
85°	212.1	203.7	224.9	254.6	275.8	326.7	288.5	343.7	352.2	347.9	203.7
87.5°	42.4	38.2	59.4	67.9	76.4	101.8	93.3	140.0	195.2	190.9	89.1
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°	5405.4	5405.4	5405.4	5405.4	5405.4	5405.4	5405.4	5405.4	5405.4	5405.4	5405.4
2.5°	5439.3	5435.1	5481.7	5536.9	5600.5	5638.7	5655.7	5685.4	5664.2	5672.7	5698.1
5°	5519.9	5532.7	5600.5	5672.7	5702.4	5681.2	5634.5	5617.5	5579.3	5570.8	5562.4
7.5°	5638.7	5659.9	5727.8	5744.8	5655.7	5507.2	5401.1	5341.7	5278.1	5261.1	5252.6
10°	5833.9	5846.6	5863.6	5689.6	5469.0	5269.6	5138.1	5082.9	5040.5	5006.5	5015.0
12.5°	6080.0	6071.5	5940.0	5579.3	5265.4	5061.7	4972.6	4938.7	4909.0	4887.7	4883.5
15°	6389.7	6330.3	5952.7	5426.6	5074.4	4904.7	4841.1	4828.3	4794.4	4794.4	4790.2
17.5°	6703.7	6550.9	5944.2	5265.4	4892.0	4798.6	4760.5	4752.0	4743.5	4739.2	4752.0
20°	7017.6	6746.1	5876.3	5065.9	4764.7	4709.5	4701.1	4705.3	4696.8	4709.5	4701.1
22.5°	7293.4	6873.4	5749.0	4853.8	4675.6	4671.4	4650.1	4658.6	4688.3	4692.6	4705.3
25°	7505.6	6920.1	5562.4	4658.6	4612.0	4603.5	4628.9	4662.9	4688.3	4692.6	4713.8
27.5°	7679.5	6894.6	5329.0	4505.9	4501.6	4548.3	4624.7	4637.4	4641.7	4641.7	4624.7
30°	7811.1	6839.4	5032.0	4336.2	4357.4	4471.9	4544.1	4544.1	4510.1	4501.6	4527.1
32.5°	7840.8	6767.3	4709.5	4162.2	4196.2	4331.9	4421.0	4391.3	4353.1	4353.1	4370.1
35°	7866.2	6669.7	4450.7	3924.6	3975.5	4136.8	4221.6	4162.2	4119.8	4107.1	4102.8
37.5°	7857.7	6631.6	4217.4	3623.4	3691.3	3848.3	3903.4	3848.3	3784.6	3754.9	3793.1
40°	7866.2	6606.1	3924.6	3292.4	3360.3	3453.7	3525.8	3483.4	3424.0	3347.6	3385.8
42.5°	7917.1	6640.0	3602.2	2970.0	2970.0	3020.9	3143.9	3114.2	2970.0	2940.3	2974.2
45°	8188.7	6822.5	3279.7	2647.5	2600.9	2634.8	2762.1	2634.8	2545.7	2545.7	2575.4
47.5°	8846.3	7161.9	2995.4	2363.3	2252.9	2320.8	2354.8	2236.0	2168.1	2151.1	2180.8
50°	10187.0	7840.8	2825.7	2129.9	1994.1	2045.0	2023.8	2019.6	1951.7	1960.2	1977.2
52.5°	12223.6	9164.5	2774.8	2015.3	1845.6	1858.4	1837.1	1845.6	1832.9	1875.3	1888.1
55°	14442.6	10560.4	2838.5	2032.3	1743.8	1654.7	1663.2	1705.6	1756.5	1824.4	1837.1
57.5°	16101.6	11260.5	3003.9	2146.9	1616.5	1480.7	1502.0	1582.6	1680.2	1735.3	1765.0
60°	17336.2	11175.6	3245.8	2176.6	1463.8	1323.8	1361.9	1480.7	1565.6	1612.3	1642.0
62.5°	17739.3	10645.3	3305.2	1960.2	1264.4	1175.3	1268.6	1391.6	1429.8	1480.7	1502.0
65°	17408.3	9894.3	2872.4	1591.1	1111.6	1065.0	1200.7	1294.1	1345.0	1370.4	1374.7
66°	17018.0	9444.5	2639.0	1446.8	1056.5	1031.0	1175.3	1251.6	1302.6	1298.3	1302.6
67.5°	16161.0	8502.6	2261.4	1243.2	975.9	980.1	1132.8	1183.8	1200.7	1188.0	1188.0
70°	13246.1	5986.6	1620.8	941.9	857.1	916.5	1018.3	1031.0	1069.2	1052.2	1052.2
72.5°	8167.5	2940.3	1086.2	721.3	763.7	857.1	852.8	895.2	984.3	1009.8	1026.8
75°	4013.7	1192.2	717.0	611.0	683.1	717.0	708.6	814.6	941.9	1052.2	1090.4
77.5°	1523.2	594.0	500.7	534.6	551.6	538.8	564.3	738.3	941.9	1141.3	1179.5
80°	471.0	411.6	394.6	441.3	415.8	394.6	424.3	611.0	797.7	865.5	865.5
82.5°	284.3	322.5	305.5	301.2	280.0	284.3	305.5	437.0	615.2	644.9	644.9
85°	199.4	212.1	174.0	165.5	161.2	157.0	157.0	254.6	364.9	360.6	373.4
87.5°	76.4	84.9	63.6	63.6	59.4	42.4	33.9	42.4	42.4	29.7	21.2
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)