

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: P1211499

Luminaire Tested: **ARCH4-290-750-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211499
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-290-750-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1120mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41573 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 289.7
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



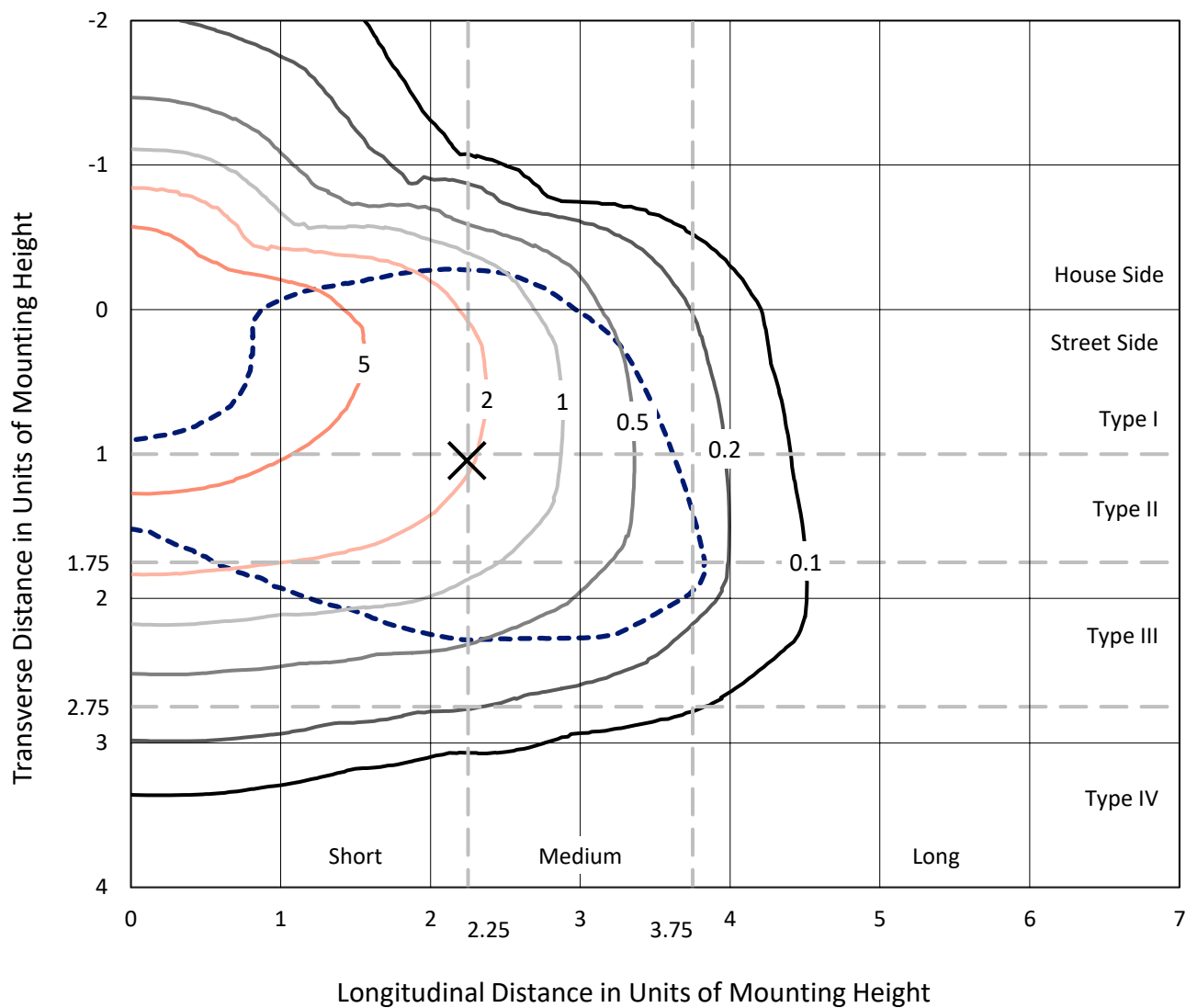
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

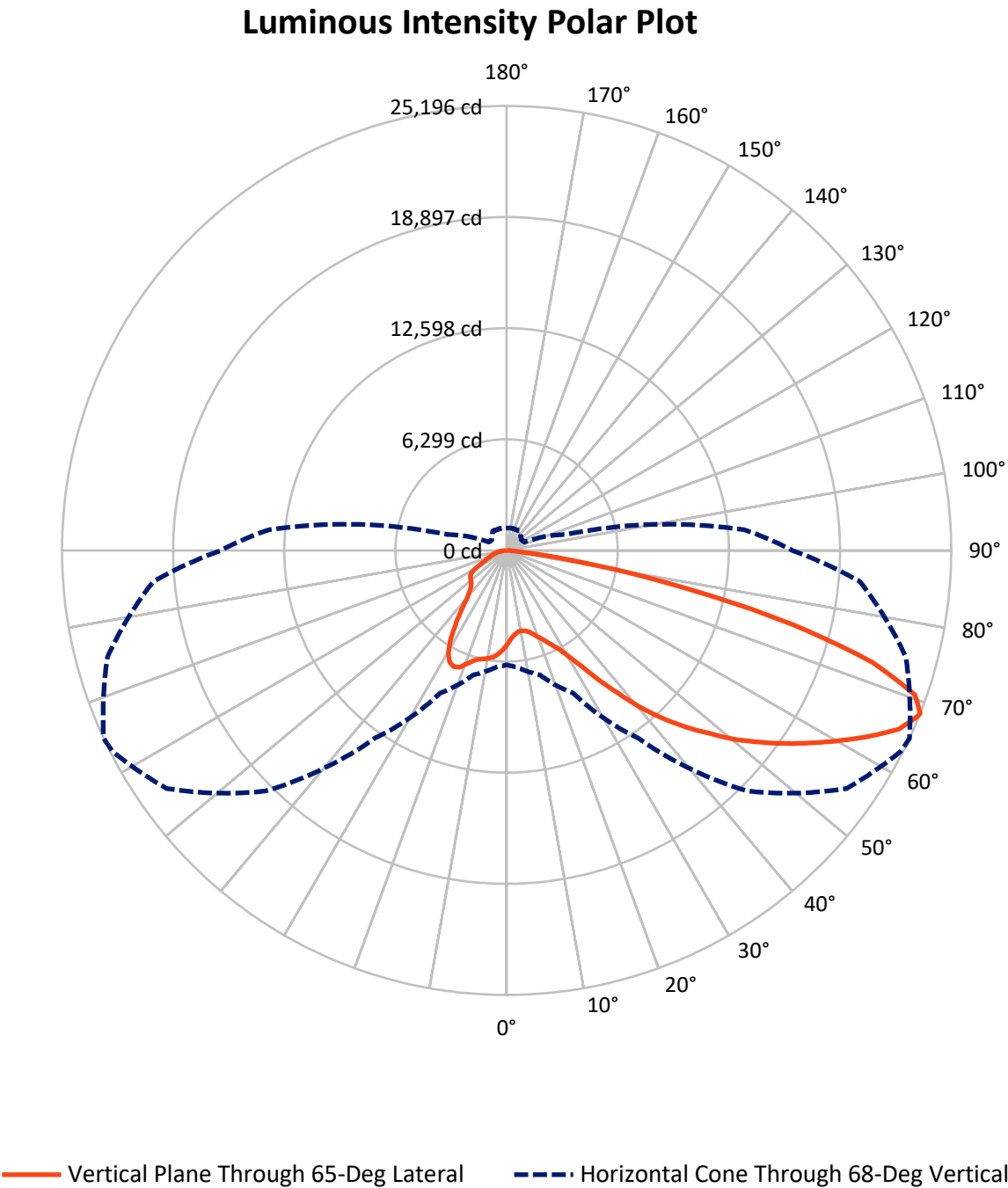
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc

Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10192.5	0.0	10192.5
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	31380.5	0.0	31380.5
	% Fixture	75.5	0.0	75.5
Total	Lumens	41573.0	0.0	41573.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.7	1.2
10°-20°	1653.1	4.0
20°-30°	2992.0	7.2
30°-40°	4706.8	11.3
40°-50°	7010.2	16.9
50°-60°	9196.0	22.1
60°-70°	10056.4	24.2
70°-80°	4976.2	12.0
80°-90°	474.7	1.1
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°	41573.0	100.0
0°-180°	41573.0	100.0

Coefficient of Utilization



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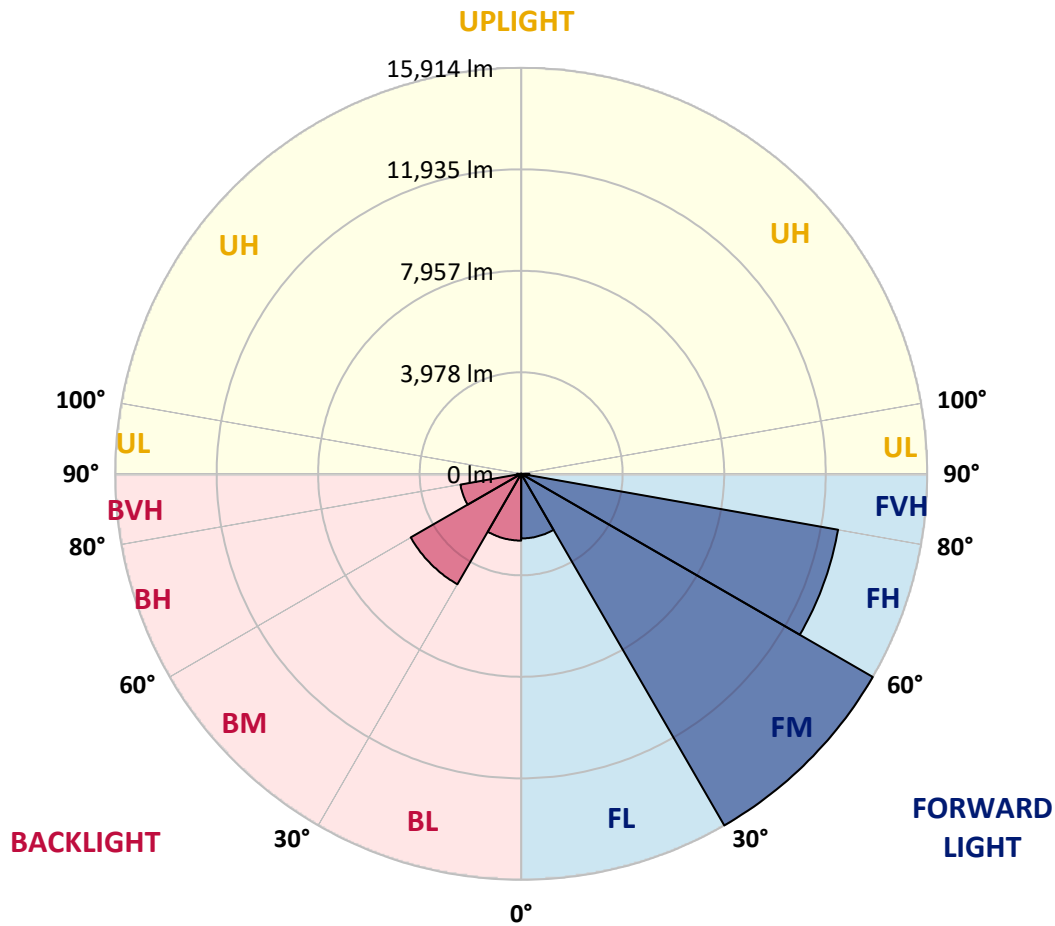
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2534.3	6.1			
FM	(30°-60°)	15913.6	38.3			
FH	(60°-80°)	12613.4	30.3			G5
FVH	(80°-90°)	319.3	0.8			G3/500
BL	(0°-30°)	2618.5	6.3	B4/5000		
BM	(30°-60°)	4999.3	12.0	B3/5000		
BH	(60°-80°)	2419.2	5.8	B3/2500		G3/2500
BVH	(80°-90°)	155.4	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5
2.5°	4637.1	4626.3	4653.1	4680.0	4738.9	4808.6	4905.1	4985.5	4996.2	5146.3	5264.3
5°	4363.7	4347.6	4374.4	4406.6	4433.4	4519.1	4621.0	4738.9	4787.2	5007.0	5258.9
7.5°	4390.5	4385.1	4395.8	4385.1	4385.1	4422.6	4492.3	4610.3	4663.9	4926.5	5285.7
10°	4545.9	4556.7	4562.0	4529.9	4497.7	4481.6	4503.0	4583.5	4621.0	4931.9	5403.7
12.5°	4803.3	4819.3	4824.7	4765.7	4722.8	4653.1	4615.6	4647.8	4674.6	4985.5	5569.8
15°	5151.7	5162.4	5124.9	5087.4	4980.2	4894.4	4803.3	4776.4	4787.2	5098.1	5757.5
17.5°	5559.1	5543.0	5543.0	5451.9	5312.5	5178.5	5028.4	5007.0	5007.0	5280.4	6025.5
20°	6004.1	6020.1	5971.9	5848.6	5709.2	5500.2	5350.0	5253.6	5264.3	5489.4	6352.5
22.5°	6647.4	6674.2	6545.5	6368.6	6154.2	5912.9	5698.5	5543.0	5548.4	5762.8	6690.2
25°	7338.9	7349.6	7269.2	7033.3	6743.8	6400.8	6116.6	5918.3	5912.9	6068.4	7124.5
27.5°	8046.5	8094.8	7933.9	7708.8	7440.7	7011.9	6636.6	6368.6	6325.7	6534.8	7665.9
30°	8775.6	8834.6	8679.1	8459.3	8126.9	7762.4	7317.5	7006.5	6979.7	7258.5	8389.6
32.5°	9510.0	9526.1	9402.8	9220.5	8920.3	8577.2	8218.1	7875.0	7848.2	8303.8	9327.7
35°	10110.4	10158.7	10072.9	10030.0	9810.2	9493.9	9145.5	8947.1	9016.8	9601.1	10544.6
37.5°	10834.1	10882.4	10785.9	10775.1	10705.5	10432.1	10190.8	10206.9	10276.6	11070.0	11825.9
40°	11879.5	11933.1	11686.5	11579.3	11579.3	11311.2	11230.8	11611.4	11702.6	12517.4	13160.7
42.5°	12764.0	12849.8	12705.0	12635.3	12426.3	12238.6	12335.1	12871.2	13026.7	13900.5	14324.0
45°	13192.9	13257.2	13428.7	13632.4	13428.7	13101.7	13466.3	14072.0	14291.8	15176.3	15487.3
47.5°	13423.4	13482.3	13680.7	14227.5	14366.9	14093.5	14608.1	15364.0	15514.1	16441.5	16596.9
50°	13455.5	13643.2	13900.5	14447.3	15085.2	15122.7	15755.3	16677.4	16854.3	17685.2	17572.6
52.5°	13192.9	13267.9	13798.6	14720.7	15428.3	16071.6	17004.4	17937.1	18065.8	18853.8	18435.7
55°	12764.0	12871.2	13401.9	14656.3	15760.7	16972.2	18274.9	19175.5	19320.2	19990.3	19234.4
57.5°	12378.0	12431.6	12999.9	14468.7	16093.0	17872.8	19406.0	20467.4	20563.9	20987.4	19824.1
60°	11949.2	12008.1	12576.4	14066.7	16339.6	18553.6	20585.4	21770.1	21855.9	22038.1	20510.3
62.5°	10839.5	10994.9	11707.9	13401.9	16275.3	19330.9	21845.1	23056.7	23163.9	22965.5	21051.7
65°	8802.4	9022.2	9896.0	11895.6	15674.9	19834.9	22874.4	24241.4	24423.7	23662.4	21196.5
67.5°	6835.0	6990.4	7692.7	9440.3	13568.1	19582.9	23539.1	25056.2	25109.9	23549.9	20392.4
68°	6481.2	6636.6	7306.7	8925.7	12983.8	19282.7	23523.1	25077.7	25195.6	23426.6	20081.4
70°	4958.7	5135.6	5773.6	7070.9	10464.2	17374.3	22542.0	24563.1	24547.0	21936.3	18151.6
72.5°	3098.5	3200.4	3640.0	4460.2	6920.8	13219.7	19132.6	21662.9	21705.8	17883.5	13921.9
75°	1967.4	1967.4	1946.0	2160.4	3548.8	7531.9	14222.1	16677.4	16709.5	12522.8	8775.6
77.5°	1710.1	1661.8	1431.3	1211.5	1415.2	2927.0	8416.4	10769.8	10592.9	6743.8	4165.3
80°	1442.0	1361.6	1174.0	975.7	911.3	916.7	3232.5	5468.0	5232.1	2428.4	1383.1
82.5°	1040.0	970.3	884.5	766.6	702.3	546.8	675.5	1581.4	1543.9	702.3	450.3
85°	562.9	509.3	498.6	503.9	423.5	337.7	284.1	348.5	348.5	305.6	257.3
87.5°	198.3	144.7	171.5	193.0	166.2	139.4	112.6	134.0	139.4	134.0	123.3
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°	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5
2.5°	5334.0	5387.6	5516.2	5628.8	5709.2	5778.9	5816.4	5832.5	5870.0	5875.4	5864.7
5°	5376.9	5516.2	5709.2	5875.4	5966.5	6004.1	6014.8	6020.1	6004.1	6014.8	6004.1
7.5°	5489.4	5666.3	5939.7	6084.5	6100.6	6041.6	6046.9	6025.5	6046.9	6068.4	6068.4
10°	5661.0	5886.1	6143.4	6197.1	6127.4	6095.2	6159.5	6288.2	6331.1	6390.0	6390.0
12.5°	5886.1	6154.2	6336.4	6288.2	6223.9	6331.1	6518.7	6647.4	6690.2	6711.7	6695.6
15°	6143.4	6432.9	6524.1	6363.2	6481.2	6711.7	6776.0	6701.0	6593.7	6545.5	6572.3
17.5°	6470.5	6711.7	6658.1	6550.9	6818.9	6851.1	6642.0	6400.8	6229.2	6164.9	6207.8
20°	6813.5	7022.6	6776.0	6824.3	6990.4	6647.4	6250.7	5939.7	5789.6	5762.8	5805.7
22.5°	7178.1	7312.1	6894.0	7140.5	6894.0	6197.1	5719.9	5559.1	5521.6	5564.5	5602.0
25°	7590.9	7574.8	7097.7	7237.0	6534.8	5644.9	5360.8	5350.0	5350.0	5376.9	5430.5
27.5°	8057.2	7805.3	7301.4	7108.4	5912.9	5189.2	5135.6	5141.0	5124.9	5130.3	5157.1
30°	8598.7	8116.2	7526.5	6684.9	5216.0	4846.1	4824.7	4808.6	4771.1	4760.4	4771.1
32.5°	9279.5	8443.2	7757.0	5988.0	4604.9	4492.3	4481.6	4395.8	4304.7	4294.0	4331.5
35°	10142.6	9038.3	7875.0	5114.2	4101.0	4095.6	4058.1	3924.1	3806.1	3806.1	3779.3
37.5°	11129.0	9804.8	7923.2	4261.8	3682.8	3709.7	3602.4	3430.9	3339.8	3286.2	3302.2
40°	12136.8	10678.7	7917.9	3516.7	3318.3	3323.7	3243.3	3034.2	2809.0	2675.0	2707.2
42.5°	13107.1	11472.0	7778.5	3120.0	3023.5	3007.4	2943.1	2658.9	2471.3	2364.1	2369.5
45°	13884.4	12292.2	7564.0	2884.1	2755.4	2782.2	2637.5	2466.0	2294.4	2197.9	2192.6
47.5°	14661.7	12914.1	7221.0	2739.4	2557.1	2508.8	2449.9	2331.9	2203.3	2096.1	2101.4
50°	15369.3	13444.8	6899.3	2642.9	2374.8	2251.5	2262.2	2192.6	2080.0	1983.5	1978.1
52.5°	15867.9	13793.3	6722.4	2589.3	2155.0	2021.0	2058.5	2021.0	1913.8	1844.1	1838.7
55°	16366.4	14061.3	6781.4	2519.6	1913.8	1806.6	1870.9	1860.2	1801.2	1779.8	1785.1
57.5°	16768.5	14265.0	6990.4	2390.9	1683.3	1619.0	1726.2	1694.0	1651.1	1656.5	1656.5
60°	17159.8	14527.7	7237.0	2096.1	1484.9	1490.3	1592.1	1533.2	1506.4	1554.6	1560.0
62.5°	17567.2	14811.8	7033.3	1667.2	1313.4	1350.9	1468.9	1420.6	1431.3	1501.0	1522.5
65°	17519.0	14785.0	5730.7	1367.0	1163.3	1238.3	1415.2	1399.2	1404.5	1431.3	1442.0
67.5°	16532.6	13841.5	3940.2	1163.3	1056.1	1147.2	1372.4	1308.0	1313.4	1297.3	1302.7
68°	16200.2	13509.1	3473.8	1131.1	1034.6	1125.8	1350.9	1291.9	1297.3	1281.2	1275.9
70°	14388.3	11568.5	2197.9	997.1	959.6	1066.8	1243.7	1222.3	1216.9	1206.2	1206.2
72.5°	10968.1	8539.7	1157.9	863.1	873.8	975.7	1109.7	1152.6	1125.8	1131.1	1163.3
75°	7263.8	5135.6	804.1	739.8	766.6	836.3	986.4	1072.2	1045.4	1061.4	1045.4
77.5°	3843.7	2766.2	643.3	627.2	627.2	675.5	814.8	948.9	948.9	938.1	922.1
80°	1259.8	975.7	514.6	493.2	503.9	530.7	654.0	777.3	793.4	772.0	761.2
82.5°	423.5	450.3	386.0	359.2	369.9	391.3	493.2	595.0	600.4	557.5	546.8
85°	262.7	300.2	241.2	235.9	235.9	241.2	300.2	327.0	300.2	268.0	278.8
87.5°	123.3	150.1	112.6	96.5	80.4	69.7	53.6	21.4	21.4	10.7	10.7
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)