

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: P1211273

Luminaire Tested: **ARCH4-220-750-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211273
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: ARCH4-220-750-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 870mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34135 lumens
Efficiency: N/A
Efficacy: 153.9 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): 221.8
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



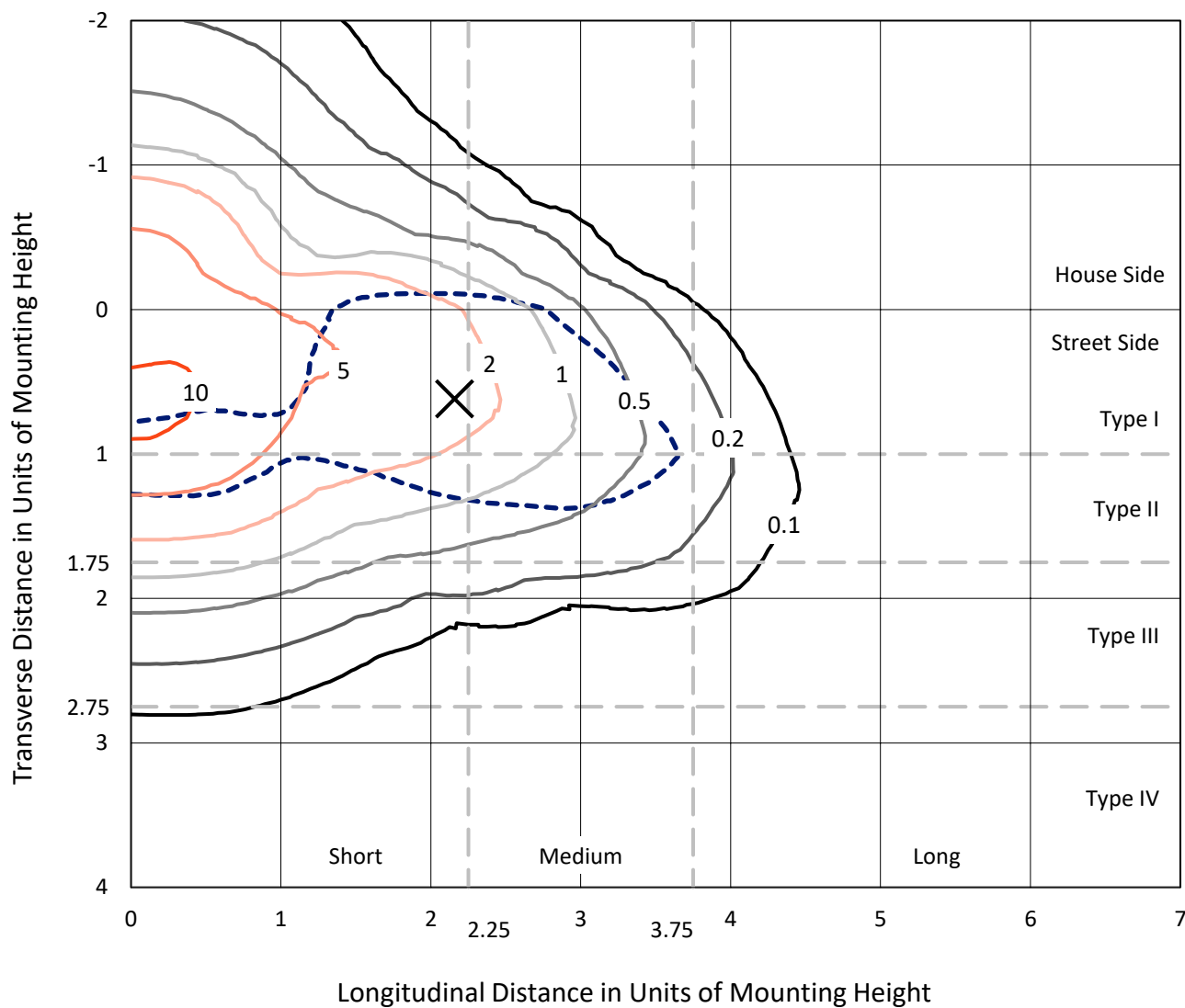
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

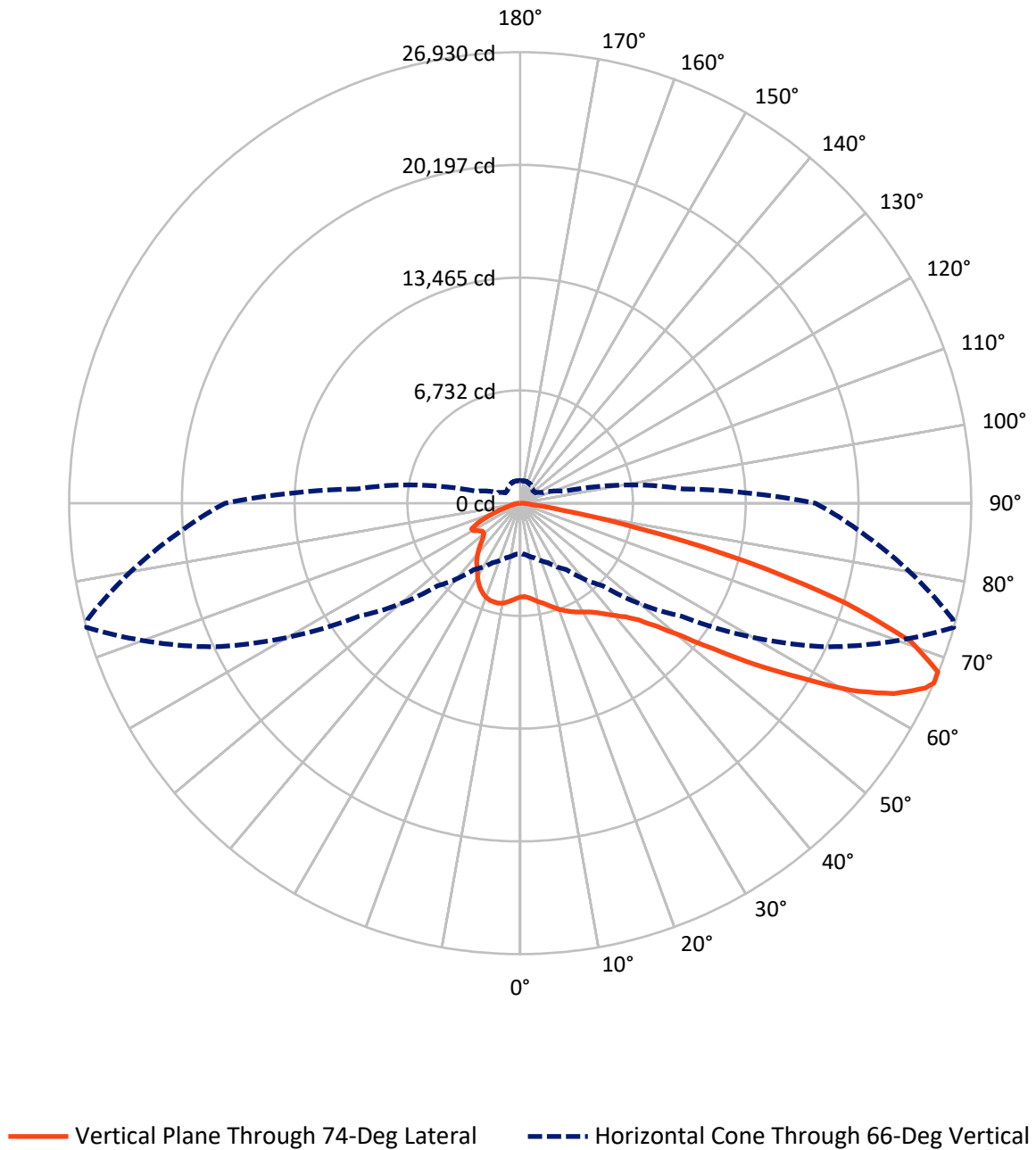


Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8312.8	0.0	8312.8
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	25822.2	0.0	25822.2
	% Fixture	75.6	0.0	75.6
Total	Lumens	34135.0	0.0	34135.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.8	1.6
10°-20°	1641.5	4.8
20°-30°	3080.3	9.0
30°-40°	4738.3	13.9
40°-50°	6373.4	18.7
50°-60°	7537.3	22.1
60°-70°	6972.4	20.4
70°-80°	2933.3	8.6
80°-90°	324.6	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°	34135.0	100.0
0°-180°	34135.0	100.0

Coefficient of Utilization



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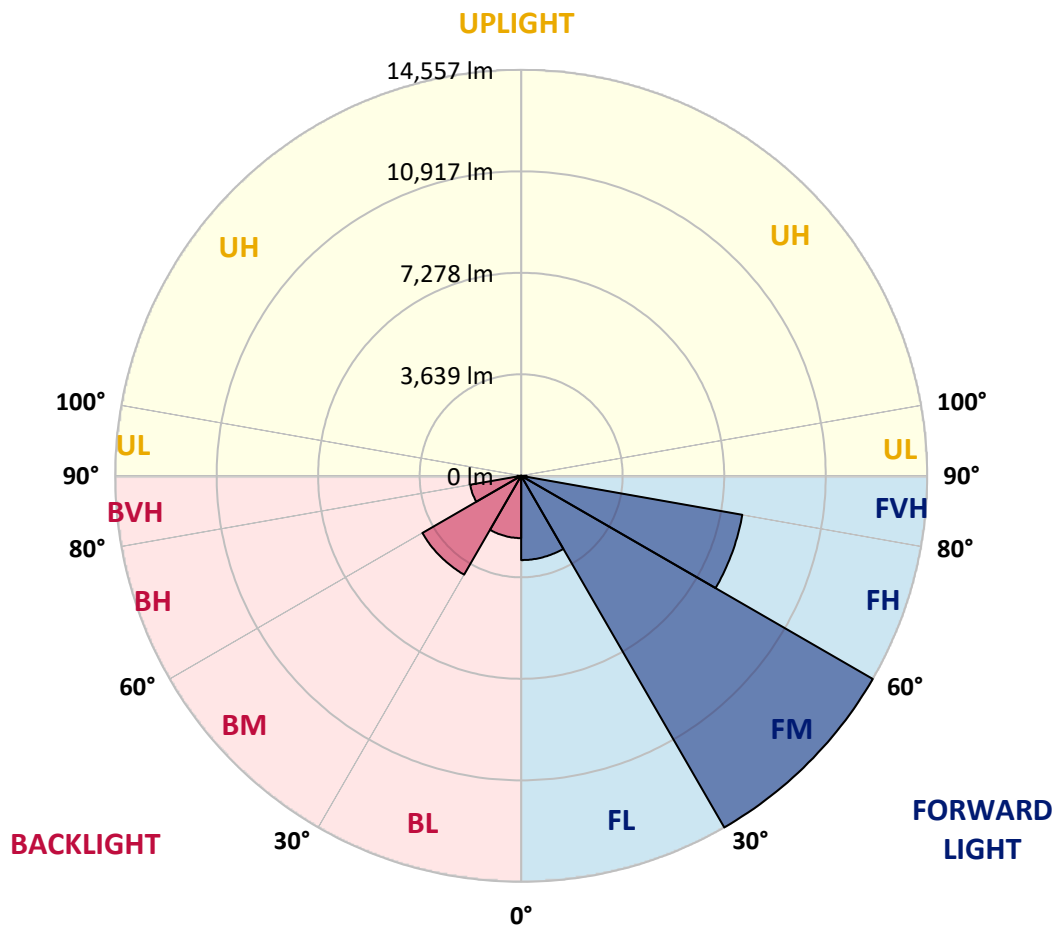
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3021.4	8.9			
FM	(30°-60°)	14556.7	42.6			
FH	(60°-80°)	8050.0	23.6			G4/12000
FVH	(80°-90°)	194.2	0.6			G2/225
BL	(0°-30°)	2234.3	6.5	B3/2500		
BM	(30°-60°)	4092.4	12.0	B3/5000		
BH	(60°-80°)	1855.7	5.4	B3/2500		G3/2500
BVH	(80°-90°)	130.4	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	5595.9	5595.9	5595.9	5595.9	5595.9	5595.9	5595.9	5595.9	5595.9	5595.9	5595.9
2.5°	5578.3	5569.5	5587.1	5613.4	5626.6	5604.6	5595.9	5591.5	5591.5	5578.3	5600.3
5°	5314.8	5310.4	5349.9	5398.2	5490.4	5556.3	5644.2	5696.9	5679.3	5653.0	5670.5
7.5°	4972.1	4963.4	5011.7	5103.9	5231.3	5376.2	5591.5	5758.4	5824.3	5815.5	5811.1
10°	5103.9	5095.1	5090.7	5064.4	5108.3	5248.9	5472.9	5767.2	5991.2	5995.6	6000.0
12.5°	5560.7	5582.7	5560.7	5477.3	5380.6	5327.9	5459.7	5789.1	6131.7	6158.1	6267.9
15°	6184.4	6162.5	6118.6	6021.9	5872.6	5714.5	5617.8	5890.1	6333.8	6355.7	6597.3
17.5°	6733.5	6751.1	6724.7	6632.5	6456.8	6250.3	5956.0	6065.8	6549.0	6610.5	6948.7
20°	7330.8	7401.1	7366.0	7251.8	7106.8	6799.4	6430.4	6320.6	6786.2	6830.1	7313.3
22.5°	8020.4	8095.1	8029.2	7919.4	7800.8	7423.1	6948.7	6632.5	6983.8	7076.1	7664.7
25°	8846.2	8916.5	8855.0	8683.7	8534.3	8073.2	7506.5	6983.8	7177.1	7278.1	7950.2
27.5°	9500.7	9553.4	9610.5	9509.5	9281.0	8802.3	8086.3	7348.4	7370.4	7475.8	8213.7
30°	10084.8	10216.6	10264.9	10278.1	10084.8	9549.0	8679.3	7726.2	7537.3	7647.1	8477.2
32.5°	10884.3	11081.9	11002.9	11081.9	10967.7	10251.8	9294.2	8117.1	7752.5	7853.5	8727.6
35°	12052.6	12210.7	12004.3	11942.8	11758.3	10963.3	9887.2	8521.2	8038.0	8147.8	8964.8
37.5°	13308.8	13488.9	13190.2	12944.3	12592.9	11666.1	10396.7	9052.6	8433.3	8521.2	9184.4
40°	14406.9	14556.3	14297.1	13972.1	13383.5	12285.4	10835.9	9426.0	8828.6	8938.4	9439.2
42.5°	15421.6	15518.2	15228.3	14916.4	14130.2	12843.2	11310.3	9821.3	9289.8	9395.2	9645.6
45°	16449.4	16524.0	16119.9	15676.3	14753.9	13352.8	11833.0	10374.7	9966.3	10106.8	9979.4
47.5°	16633.9	16655.8	16585.5	16286.9	15245.9	13840.3	12478.7	11117.1	10998.5	11152.2	10554.8
50°	15355.7	15553.3	15988.2	16282.5	15443.5	14248.8	13124.4	12180.0	12421.6	12619.2	11749.6
52.5°	12874.0	13062.9	14068.7	15184.4	14969.1	14341.0	13818.4	13528.5	14428.9	14666.1	13374.7
55°	10256.2	10423.1	11486.0	13093.6	13436.2	13919.4	14560.7	15250.3	16989.6	17147.8	15158.0
57.5°	8446.5	8538.7	9298.6	10844.7	11393.8	12570.9	14960.4	17297.1	19594.3	19835.9	16708.5
60°	6926.7	7027.8	7594.4	8868.2	9597.3	10642.7	14644.1	19317.6	22704.1	22704.1	18698.3
62.5°	5213.7	5301.6	5828.7	6825.7	8051.2	9008.7	13633.9	20657.2	25049.6	24944.2	20139.0
65°	3579.8	3650.0	4032.2	4695.4	5797.9	7677.8	12254.7	20674.8	26604.5	26463.9	20753.9
66°	3004.4	3065.9	3390.9	3926.8	4853.6	6966.3	11767.1	20301.5	26929.5	26731.9	20494.7
67.5°	2371.9	2415.8	2631.0	2947.3	3557.8	5639.8	10998.5	19242.9	26898.8	26780.2	19835.9
70°	1695.4	1726.2	1884.3	1950.2	2103.9	3263.5	8736.4	16853.5	24742.1	24777.3	17244.4
72.5°	1313.3	1361.6	1458.3	1471.4	1436.3	1735.0	5301.6	14059.9	20240.0	20226.8	12799.3
75°	1058.6	1084.9	1133.2	1159.6	1150.8	1120.1	2244.5	10488.9	13932.6	14095.1	7168.3
77.5°	834.5	830.2	874.1	909.2	935.6	878.5	1027.8	6149.3	7304.5	7098.0	2692.5
80°	614.9	614.9	676.4	689.6	729.1	737.9	685.2	2371.9	2508.0	2279.6	698.4
82.5°	404.1	404.1	470.0	478.8	518.3	575.4	496.3	711.6	694.0	658.9	316.2
85°	219.6	210.8	232.8	263.5	285.5	338.2	298.7	355.8	364.6	360.2	210.8
87.5°	43.9	39.5	61.5	70.3	79.1	105.4	96.6	144.9	202.0	197.7	92.2
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°	5595.9	5595.9	5595.9	5595.9	5595.9	5595.9	5595.9	5595.9	5595.9	5595.9	5595.9
2.5°	5631.0	5626.6	5674.9	5732.0	5797.9	5837.4	5855.0	5885.8	5863.8	5872.6	5898.9
5°	5714.5	5727.6	5797.9	5872.6	5903.3	5881.4	5833.0	5815.5	5775.9	5767.2	5758.4
7.5°	5837.4	5859.4	5929.7	5947.2	5855.0	5701.3	5591.5	5530.0	5464.1	5446.5	5437.7
10°	6039.5	6052.7	6070.2	5890.1	5661.7	5455.3	5319.1	5262.0	5218.1	5183.0	5191.8
12.5°	6294.2	6285.5	6149.3	5775.9	5450.9	5240.1	5147.8	5112.7	5082.0	5060.0	5055.6
15°	6614.9	6553.4	6162.5	5617.8	5253.3	5077.6	5011.7	4998.5	4963.4	4963.4	4959.0
17.5°	6939.9	6781.8	6153.7	5450.9	5064.4	4967.8	4928.2	4919.4	4910.7	4906.3	4919.4
20°	7265.0	6983.8	6083.4	5244.5	4932.6	4875.5	4866.7	4871.1	4862.3	4875.5	4866.7
22.5°	7550.5	7115.6	5951.6	5024.9	4840.4	4836.0	4814.0	4822.8	4853.6	4857.9	4871.1
25°	7770.1	7163.9	5758.4	4822.8	4774.5	4765.7	4792.1	4827.2	4853.6	4857.9	4879.9
27.5°	7950.2	7137.6	5516.8	4664.7	4660.3	4708.6	4787.7	4800.8	4805.2	4805.2	4787.7
30°	8086.3	7080.5	5209.3	4489.0	4510.9	4629.5	4704.2	4704.2	4669.1	4660.3	4686.6
32.5°	8117.1	7005.8	4875.5	4308.9	4344.0	4484.6	4576.8	4546.1	4506.6	4506.6	4524.1
35°	8143.4	6904.8	4607.6	4062.9	4115.6	4282.5	4370.4	4308.9	4265.0	4251.8	4247.4
37.5°	8134.6	6865.3	4366.0	3751.1	3821.3	3983.9	4041.0	3983.9	3918.0	3887.2	3926.8
40°	8143.4	6838.9	4062.9	3408.5	3478.7	3575.4	3650.0	3606.1	3544.6	3465.6	3505.1
42.5°	8196.1	6874.0	3729.1	3074.6	3074.6	3127.4	3254.7	3224.0	3074.6	3043.9	3079.0
45°	8477.2	7062.9	3395.3	2740.8	2692.5	2727.7	2859.4	2727.7	2635.4	2635.4	2666.2
47.5°	9158.1	7414.3	3101.0	2446.5	2332.3	2402.6	2437.8	2314.8	2244.5	2226.9	2257.7
50°	10546.0	8117.1	2925.3	2205.0	2064.4	2117.1	2095.2	2090.8	2020.5	2029.3	2046.8
52.5°	12654.4	9487.5	2872.6	2086.4	1910.7	1923.9	1901.9	1910.7	1897.5	1941.4	1954.6
55°	14951.6	10932.6	2938.5	2103.9	1805.3	1713.0	1721.8	1765.7	1818.4	1888.7	1901.9
57.5°	16669.0	11657.3	3109.8	2222.5	1673.5	1532.9	1554.9	1638.3	1739.4	1796.5	1827.2
60°	17947.2	11569.5	3360.2	2253.3	1515.4	1370.4	1409.9	1532.9	1620.8	1669.1	1699.8
62.5°	18364.4	11020.4	3421.6	2029.3	1308.9	1216.7	1313.3	1440.7	1480.2	1532.9	1554.9
65°	18021.8	10243.0	2973.6	1647.1	1150.8	1102.5	1243.0	1339.7	1392.4	1418.7	1423.1
66°	17617.7	9777.4	2732.0	1497.8	1093.7	1067.3	1216.7	1295.7	1348.5	1344.1	1348.5
67.5°	16730.5	8802.3	2341.1	1287.0	1010.2	1014.6	1172.8	1225.5	1243.0	1229.9	1229.9
70°	13712.9	6197.6	1677.9	975.1	887.3	948.7	1054.2	1067.3	1106.9	1089.3	1089.3
72.5°	8455.3	3043.9	1124.4	746.7	790.6	887.3	882.9	926.8	1019.0	1045.4	1063.0
75°	4155.2	1234.3	742.3	632.5	707.2	742.3	733.5	843.3	975.1	1089.3	1128.8
77.5°	1576.9	614.9	518.3	553.4	571.0	557.8	584.2	764.3	975.1	1181.5	1221.1
80°	487.6	426.1	408.5	456.8	430.5	408.5	439.2	632.5	825.8	896.0	896.0
82.5°	294.3	333.8	316.2	311.9	289.9	294.3	316.2	452.4	636.9	667.6	667.6
85°	206.4	219.6	180.1	171.3	166.9	162.5	162.5	263.5	377.7	373.4	386.5
87.5°	79.1	87.8	65.9	65.9	61.5	43.9	35.1	43.9	43.9	30.7	22.0
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)