

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: P1211243

Luminaire Tested: **ARCH4-210-750-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211243
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: ARCH4-210-750-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 835mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32905 lumens
Efficiency: N/A
Efficacy: 154.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - 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

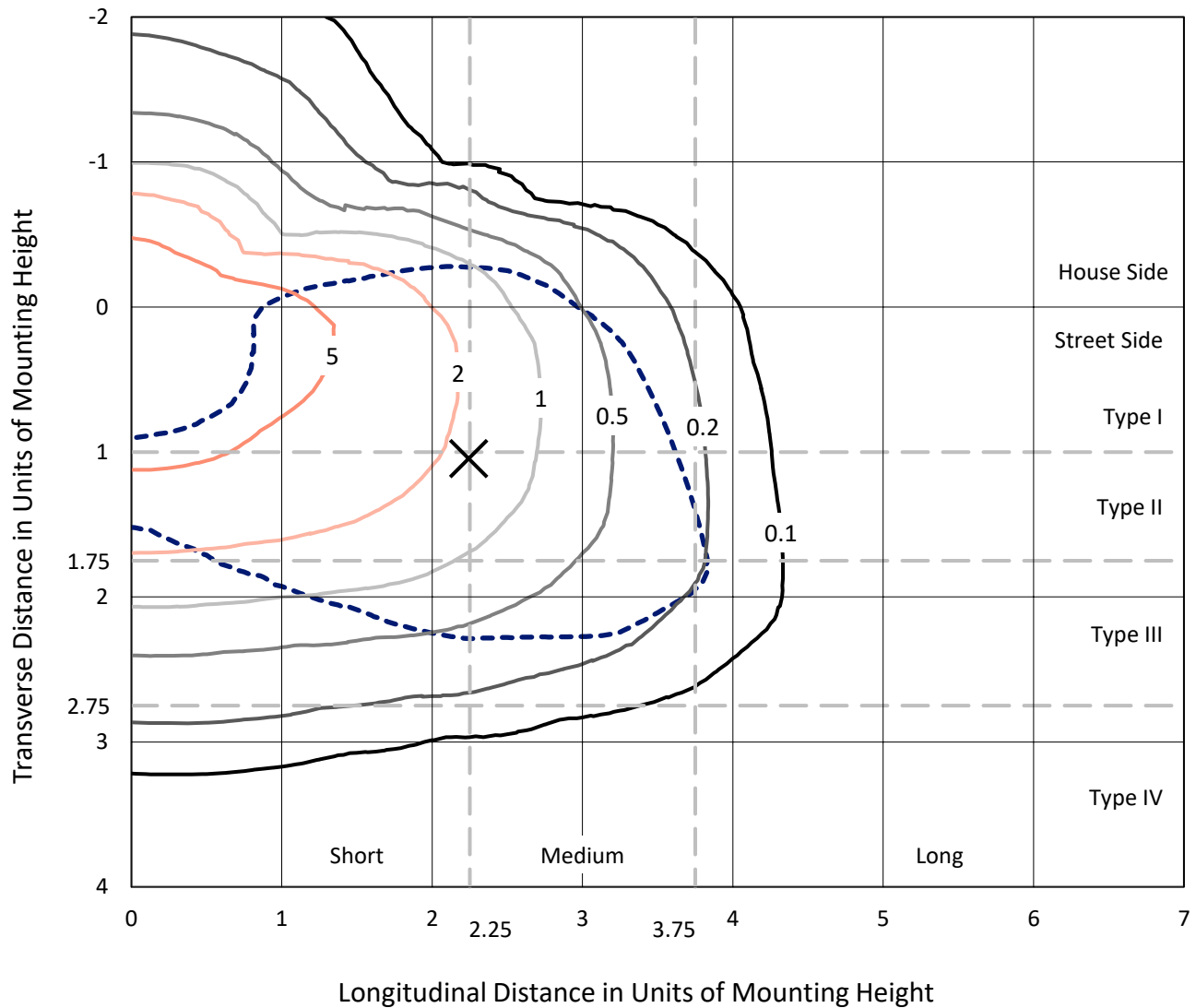


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Iso-Footcandle Lines of Horizontal Illumination

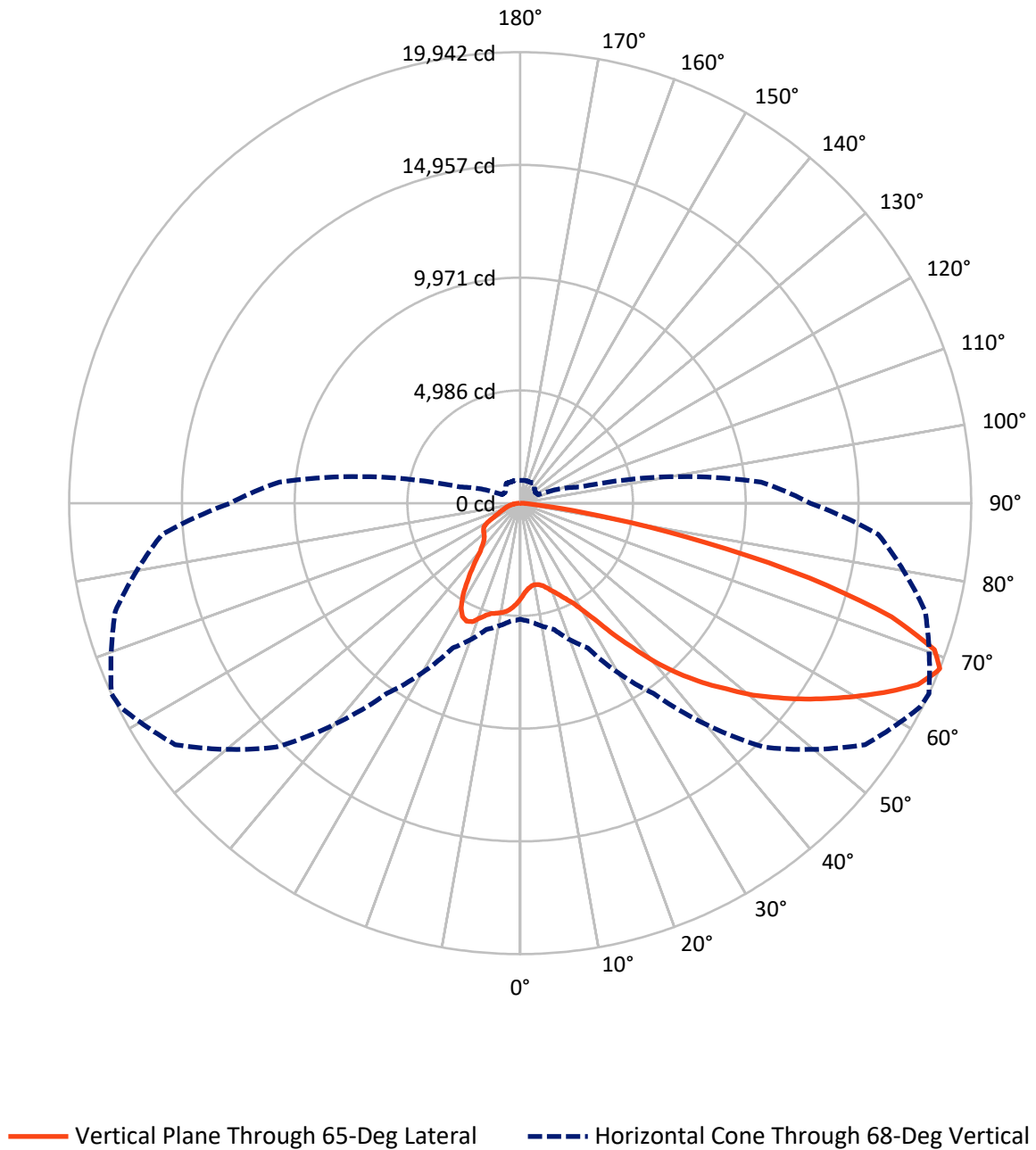
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8067.3	0.0	8067.3
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	24837.7	0.0	24837.7
	% Fixture	75.5	0.0	75.5
Total	Lumens	32905.0	0.0	32905.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.9	1.2
10°-20°	1308.4	4.0
20°-30°	2368.2	7.2
30°-40°	3725.4	11.3
40°-50°	5548.6	16.9
50°-60°	7278.6	22.1
60°-70°	7959.6	24.2
70°-80°	3938.6	12.0
80°-90°	375.7	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°	32905.0	100.0
0°-180°	32905.0	100.0

Coefficient of Utilization



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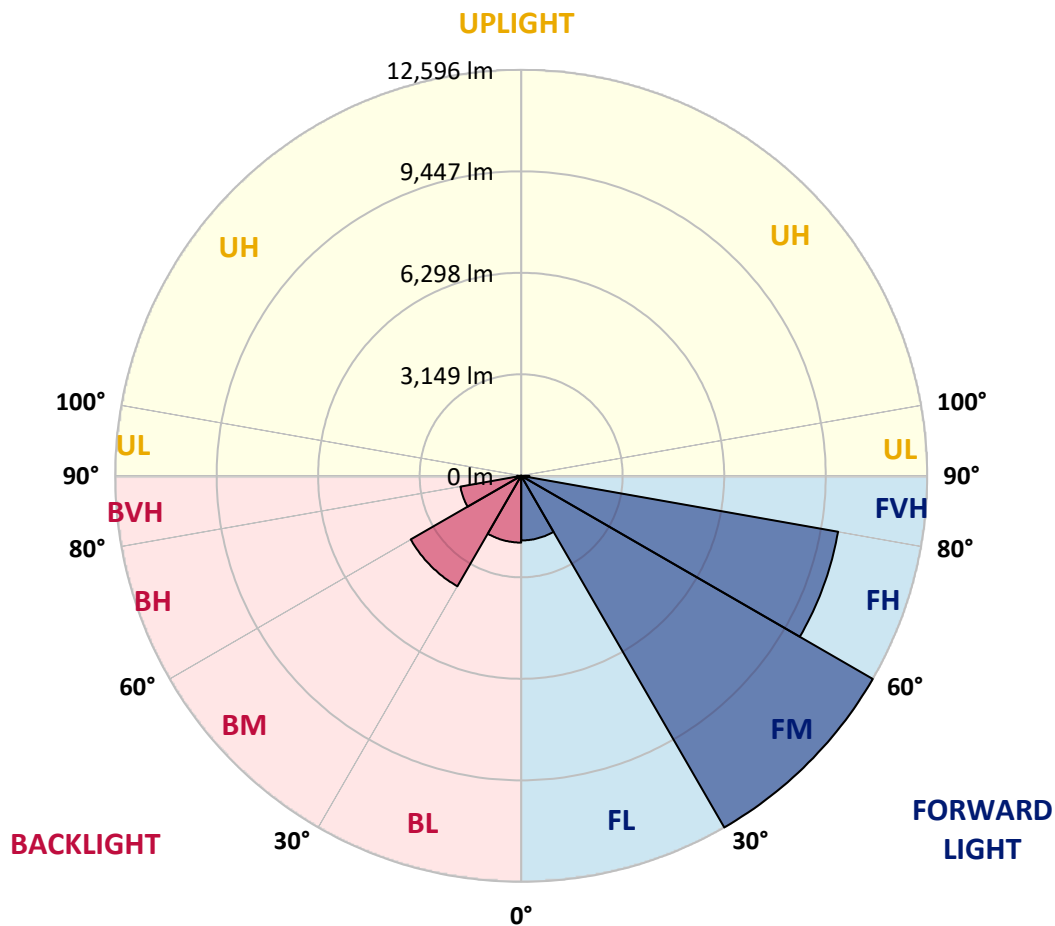
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2005.9	6.1			
FM	(30°-60°)	12595.6	38.3			
FH	(60°-80°)	9983.5	30.3			G4/12000
FVH	(80°-90°)	252.7	0.8			G3/500
BL	(0°-30°)	2072.6	6.3	B3/2500		
BM	(30°-60°)	3957.0	12.0	B3/5000		
BH	(60°-80°)	1914.8	5.8	B3/2500		G3/2500
BVH	(80°-90°)	123.0	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	4204.9	4204.9	4204.9	4204.9	4204.9	4204.9	4204.9	4204.9	4204.9	4204.9	4204.9
2.5°	3670.2	3661.7	3683.0	3704.2	3750.9	3806.0	3882.4	3946.0	3954.5	4073.3	4166.7
5°	3453.8	3441.1	3462.3	3487.8	3509.0	3576.9	3657.5	3750.9	3789.0	3963.0	4162.4
7.5°	3475.1	3470.8	3479.3	3470.8	3470.8	3500.5	3555.7	3649.0	3691.5	3899.4	4183.6
10°	3598.1	3606.6	3610.8	3585.4	3559.9	3547.2	3564.2	3627.8	3657.5	3903.6	4277.0
12.5°	3801.8	3814.5	3818.7	3772.1	3738.1	3683.0	3653.3	3678.7	3699.9	3946.0	4408.5
15°	4077.6	4086.1	4056.4	4026.7	3941.8	3873.9	3801.8	3780.6	3789.0	4035.1	4557.0
17.5°	4400.0	4387.3	4387.3	4315.2	4204.9	4098.8	3980.0	3963.0	3963.0	4179.4	4769.2
20°	4752.2	4764.9	4726.8	4629.2	4518.8	4353.4	4234.6	4158.2	4166.7	4344.9	5028.0
22.5°	5261.4	5282.6	5180.8	5040.7	4871.0	4680.1	4510.4	4387.3	4391.6	4561.3	5295.3
25°	5808.7	5817.2	5753.6	5566.9	5337.8	5066.2	4841.3	4684.3	4680.1	4803.1	5639.0
27.5°	6368.8	6407.0	6279.7	6101.5	5889.3	5549.9	5252.9	5040.7	5006.8	5172.3	6067.6
30°	6945.9	6992.5	6869.5	6695.5	6432.5	6143.9	5791.8	5545.7	5524.4	5745.1	6640.4
32.5°	7527.2	7539.9	7442.3	7298.0	7060.4	6788.9	6504.6	6233.0	6211.8	6572.5	7382.9
35°	8002.4	8040.6	7972.7	7938.7	7764.8	7514.4	7238.6	7081.6	7136.8	7599.3	8346.1
37.5°	8575.2	8613.4	8537.0	8528.5	8473.4	8257.0	8066.0	8078.8	8133.9	8761.9	9360.2
40°	9402.6	9445.0	9249.8	9165.0	9165.0	8952.8	8889.2	9190.4	9262.6	9907.5	10416.7
42.5°	10102.7	10170.6	10056.0	10000.9	9835.4	9686.9	9763.2	10187.6	10310.6	11002.2	11337.4
45°	10442.1	10493.1	10628.8	10790.1	10628.8	10370.0	10658.5	11138.0	11312.0	12012.1	12258.2
47.5°	10624.6	10671.3	10828.3	11261.0	11371.4	11155.0	11562.3	12160.6	12279.4	13013.4	13136.5
50°	10650.0	10798.6	11002.2	11435.0	11939.9	11969.6	12470.3	13200.1	13340.1	13997.8	13908.7
52.5°	10442.1	10501.5	10921.6	11651.4	12211.5	12720.7	13458.9	14197.2	14299.1	14922.8	14591.8
55°	10102.7	10187.6	10607.6	11600.5	12474.6	13433.5	14464.5	15177.4	15291.9	15822.3	15224.1
57.5°	9797.2	9839.6	10289.4	11452.0	12737.6	14146.3	15359.8	16200.0	16276.3	16611.5	15690.8
60°	9457.8	9504.4	9954.2	11133.8	12932.8	14685.2	16293.3	17231.0	17298.9	17443.2	16233.9
62.5°	8579.4	8702.5	9266.8	10607.6	12881.9	15300.4	17290.4	18249.3	18334.2	18177.2	16662.4
65°	6967.1	7141.0	7832.7	9415.3	12406.7	15699.3	18105.1	19187.1	19331.3	18728.8	16777.0
67.5°	5409.9	5532.9	6088.8	7472.0	10739.2	15499.8	18631.2	19832.0	19874.4	18639.7	16140.5
68°	5129.8	5252.9	5783.3	7064.7	10276.7	15262.2	18618.5	19849.0	19942.3	18542.1	15894.5
70°	3924.8	4064.8	4569.8	5596.6	8282.4	13751.7	17842.0	19441.6	19428.9	17362.5	14367.0
72.5°	2452.5	2533.1	2881.0	3530.2	5477.8	10463.4	15143.4	17146.2	17180.1	14154.8	11019.2
75°	1557.2	1557.2	1540.2	1709.9	2808.9	5961.5	11256.8	13200.1	13225.6	9911.8	6945.9
77.5°	1353.5	1315.3	1132.9	958.9	1120.2	2316.7	6661.6	8524.3	8384.3	5337.8	3296.8
80°	1141.4	1077.7	929.2	772.2	721.3	725.6	2558.6	4327.9	4141.2	1922.1	1094.7
82.5°	823.2	768.0	700.1	606.8	555.8	432.8	534.6	1251.7	1222.0	555.8	356.4
85°	445.5	403.1	394.6	398.8	335.2	267.3	224.9	275.8	275.8	241.9	203.7
87.5°	157.0	114.6	135.8	152.7	131.5	110.3	89.1	106.1	110.3	106.1	97.6
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°	4204.9	4204.9	4204.9	4204.9	4204.9	4204.9	4204.9	4204.9	4204.9	4204.9	4204.9
2.5°	4221.8	4264.3	4366.1	4455.2	4518.8	4574.0	4603.7	4616.4	4646.1	4650.4	4641.9
5°	4255.8	4366.1	4518.8	4650.4	4722.5	4752.2	4760.7	4764.9	4752.2	4760.7	4752.2
7.5°	4344.9	4484.9	4701.3	4815.9	4828.6	4781.9	4786.2	4769.2	4786.2	4803.1	4803.1
10°	4480.7	4658.9	4862.5	4905.0	4849.8	4824.3	4875.3	4977.1	5011.0	5057.7	5057.7
12.5°	4658.9	4871.0	5015.3	4977.1	4926.2	5011.0	5159.5	5261.4	5295.3	5312.3	5299.6
15°	4862.5	5091.7	5163.8	5036.5	5129.8	5312.3	5363.2	5303.8	5218.9	5180.8	5202.0
17.5°	5121.4	5312.3	5269.9	5185.0	5397.2	5422.6	5257.1	5066.2	4930.4	4879.5	4913.4
20°	5392.9	5558.4	5363.2	5401.4	5532.9	5261.4	4947.4	4701.3	4582.5	4561.3	4595.2
22.5°	5681.4	5787.5	5456.6	5651.7	5456.6	4905.0	4527.3	4400.0	4370.3	4404.3	4434.0
25°	6008.2	5995.4	5617.8	5728.1	5172.3	4467.9	4243.0	4234.6	4234.6	4255.8	4298.2
27.5°	6377.3	6177.9	5779.0	5626.3	4680.1	4107.3	4064.8	4069.1	4056.4	4060.6	4081.8
30°	6805.8	6424.0	5957.2	5291.1	4128.5	3835.7	3818.7	3806.0	3776.3	3767.8	3776.3
32.5°	7344.7	6682.8	6139.7	4739.5	3644.8	3555.7	3547.2	3479.3	3407.2	3398.7	3428.4
35°	8027.8	7153.8	6233.0	4047.9	3245.9	3241.7	3212.0	3105.9	3012.6	3012.6	2991.3
37.5°	8808.6	7760.5	6271.2	3373.2	2915.0	2936.2	2851.3	2715.5	2643.4	2601.0	2613.7
40°	9606.3	8452.1	6267.0	2783.4	2626.4	2630.7	2567.0	2401.6	2223.4	2117.3	2142.7
42.5°	10374.2	9080.1	6156.7	2469.5	2393.1	2380.3	2329.4	2104.6	1956.0	1871.2	1875.4
45°	10989.5	9729.3	5986.9	2282.8	2180.9	2202.1	2087.6	1951.8	1816.0	1739.6	1735.4
47.5°	11604.7	10221.5	5715.4	2168.2	2023.9	1985.7	1939.1	1845.7	1743.9	1659.0	1663.3
50°	12164.8	10641.6	5460.8	2091.8	1879.7	1782.1	1790.6	1735.4	1646.3	1569.9	1565.7
52.5°	12559.4	10917.4	5320.8	2049.4	1705.7	1599.6	1629.3	1599.6	1514.8	1459.6	1455.4
55°	12954.0	11129.5	5367.5	1994.2	1514.8	1429.9	1480.8	1472.3	1425.7	1408.7	1412.9
57.5°	13272.2	11290.7	5532.9	1892.4	1332.3	1281.4	1366.3	1340.8	1306.9	1311.1	1311.1
60°	13582.0	11498.7	5728.1	1659.0	1175.3	1179.6	1260.2	1213.5	1192.3	1230.5	1234.7
62.5°	13904.5	11723.5	5566.9	1319.6	1039.5	1069.2	1162.6	1124.4	1132.9	1188.1	1205.0
65°	13866.3	11702.3	4535.8	1082.0	920.7	980.1	1120.2	1107.4	1111.7	1132.9	1141.4
67.5°	13085.6	10955.5	3118.6	920.7	835.9	908.0	1086.2	1035.3	1039.5	1026.8	1031.1
68°	12822.5	10692.5	2749.5	895.3	818.9	891.0	1069.2	1022.6	1026.8	1014.1	1009.8
70°	11388.3	9156.5	1739.6	789.2	759.5	844.4	984.4	967.4	963.2	954.7	954.7
72.5°	8681.3	6759.2	916.5	683.1	691.6	772.2	878.3	912.3	891.0	895.3	920.7
75°	5749.3	4064.8	636.5	585.5	606.8	661.9	780.7	848.6	827.4	840.1	827.4
77.5°	3042.3	2189.4	509.2	496.4	496.4	534.6	644.9	751.0	751.0	742.5	729.8
80°	997.1	772.2	407.3	390.4	398.8	420.1	517.7	615.2	628.0	611.0	602.5
82.5°	335.2	356.4	305.5	284.3	292.8	309.7	390.4	471.0	475.2	441.3	432.8
85°	207.9	237.6	190.9	186.7	186.7	190.9	237.6	258.8	237.6	212.2	220.6
87.5°	97.6	118.8	89.1	76.4	63.6	55.2	42.4	17.0	17.0	8.5	8.5
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)