

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: P1211263

Luminaire Tested: **ARCH4-220-730-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211263
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: ARCH4-220-730-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 870mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32443 lumens
Efficiency: N/A
Efficacy: 146.3 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): 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



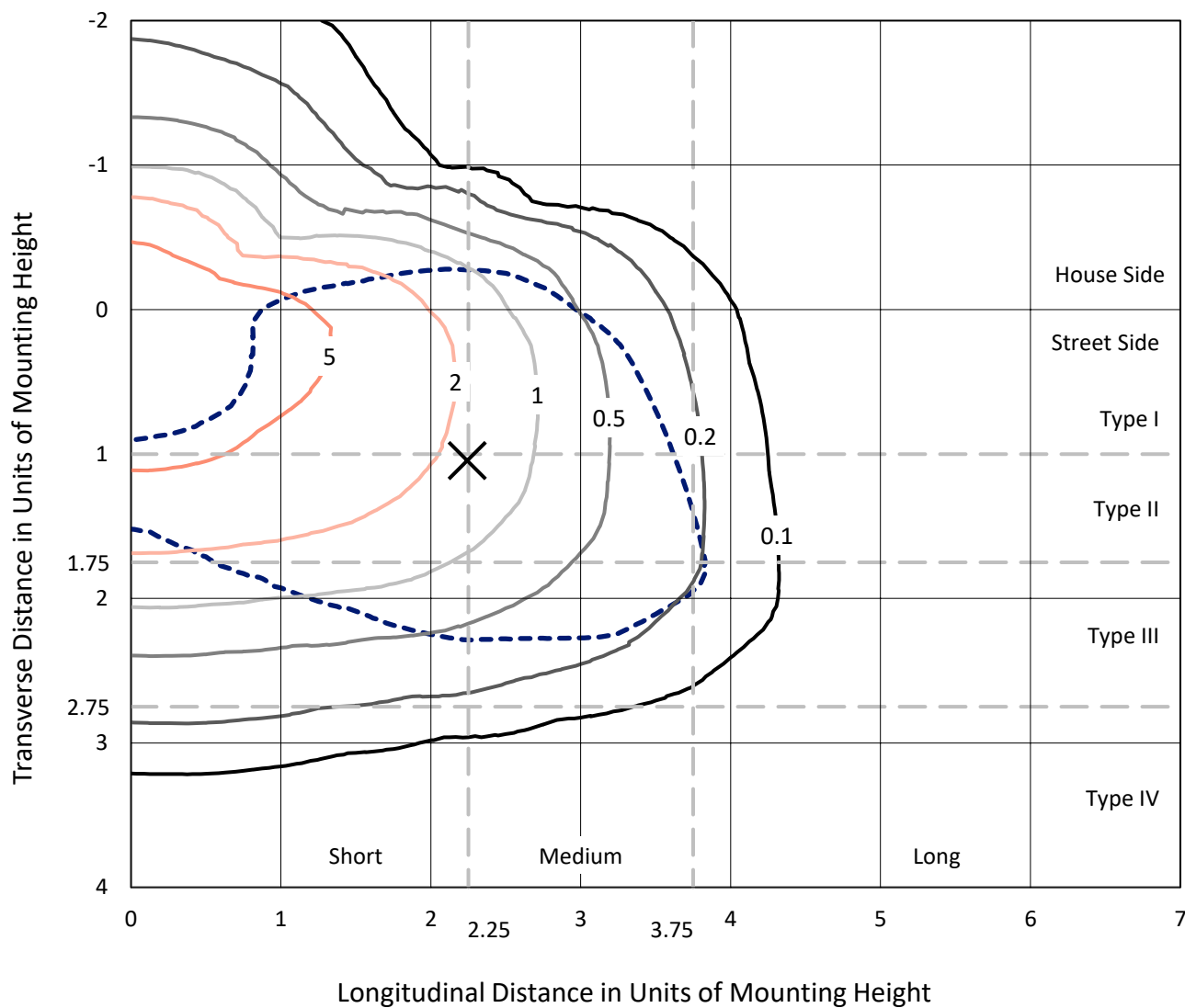
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

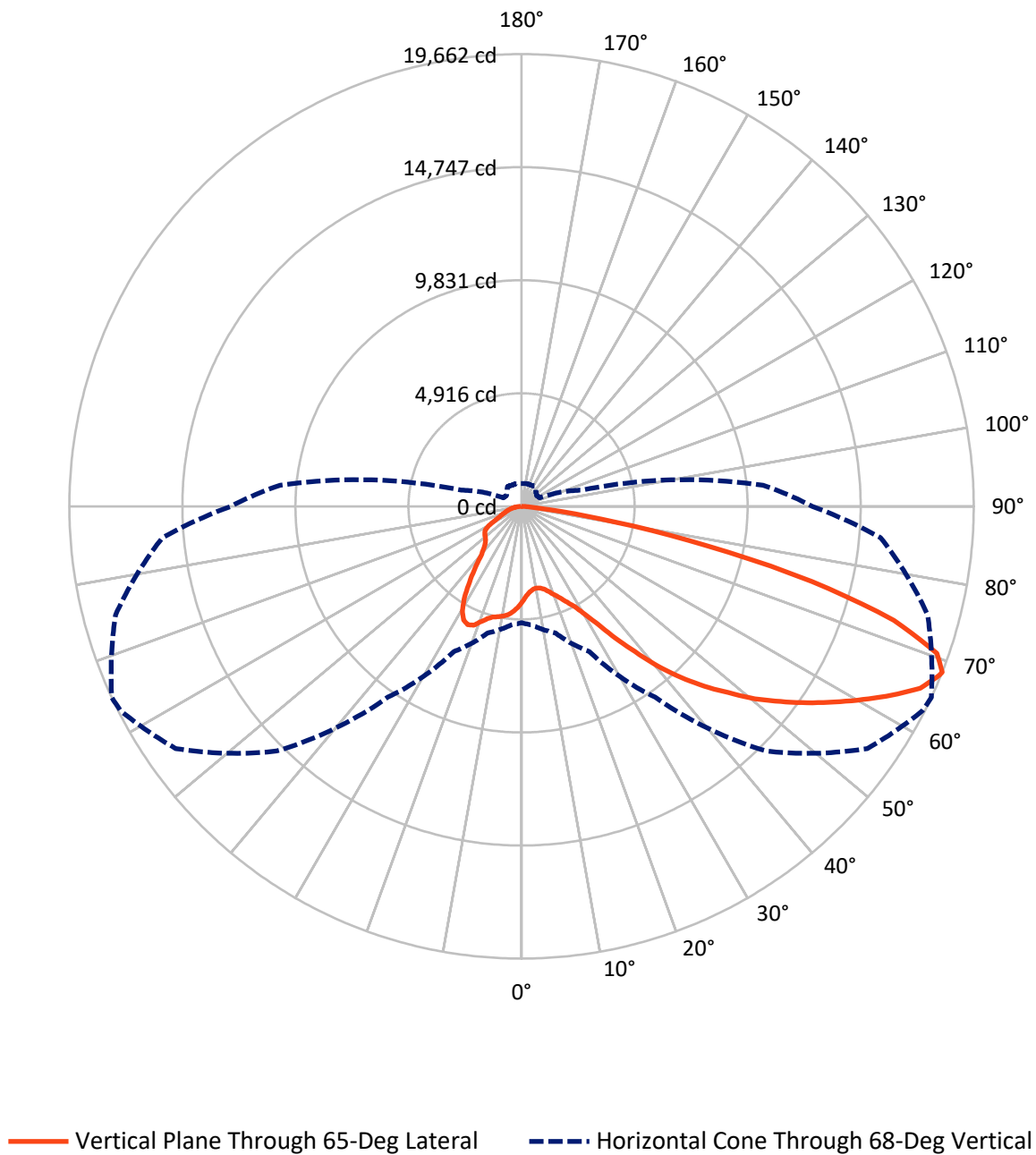


Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7954.1	0.0	7954.1
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	24488.9	0.0	24488.9
	% Fixture	75.5	0.0	75.5
Total	Lumens	32443.0	0.0	32443.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.2	1.2
10°-20°	1290.1	4.0
20°-30°	2334.9	7.2
30°-40°	3673.1	11.3
40°-50°	5470.7	16.9
50°-60°	7176.4	22.1
60°-70°	7847.9	24.2
70°-80°	3883.3	12.0
80°-90°	370.4	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°	32443.0	100.0
0°-180°	32443.0	100.0

Coefficient of Utilization



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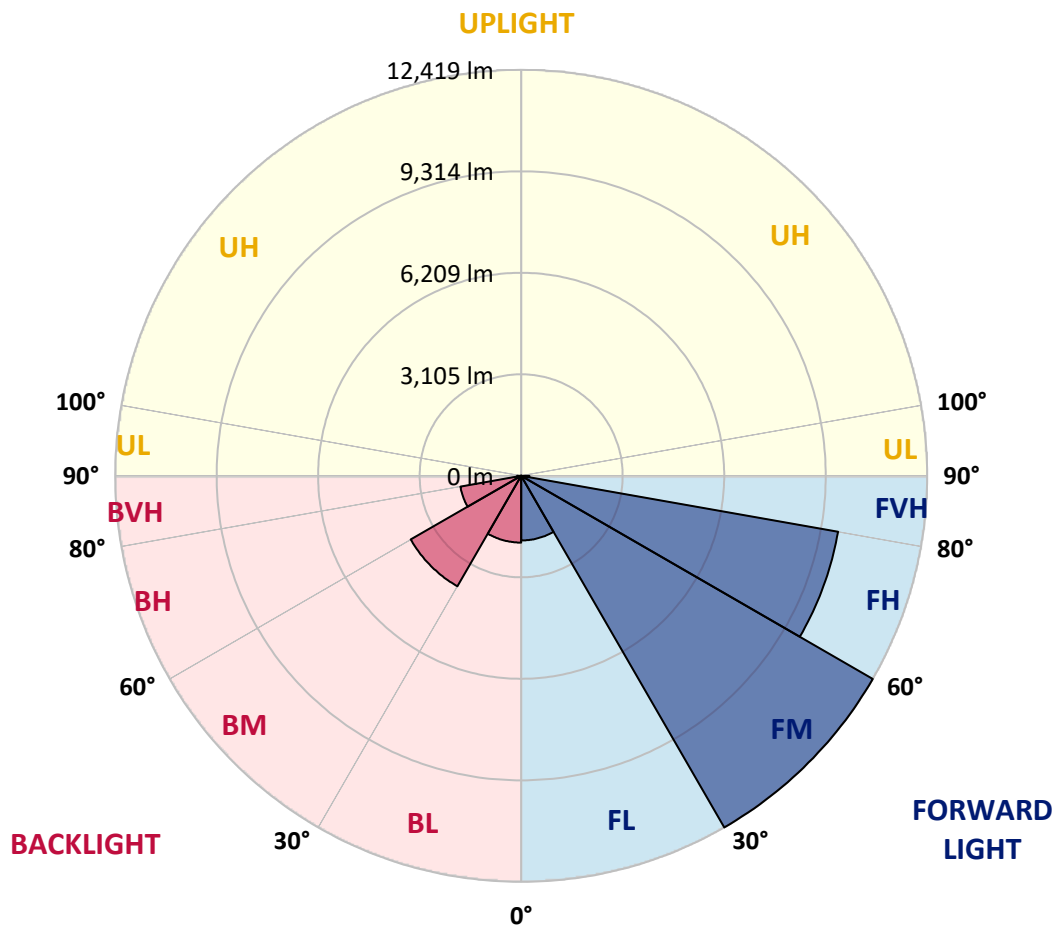
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1977.8	6.1			
FM	(30°-60°)	12418.7	38.3			
FH	(60°-80°)	9843.3	30.3			G4/12000
FVH	(80°-90°)	249.1	0.8			G3/500
BL	(0°-30°)	2043.5	6.3	B3/2500		
BM	(30°-60°)	3901.4	12.0	B3/5000		
BH	(60°-80°)	1887.9	5.8	B3/2500		G3/2500
BVH	(80°-90°)	121.3	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°	4145.8	4145.8	4145.8	4145.8	4145.8	4145.8	4145.8	4145.8	4145.8	4145.8	4145.8
2.5°	3618.7	3610.3	3631.3	3652.2	3698.2	3752.6	3827.9	3890.6	3899.0	4016.1	4108.2
5°	3405.3	3392.8	3413.7	3438.8	3459.7	3526.7	3606.2	3698.2	3735.8	3907.4	4104.0
7.5°	3426.3	3422.1	3430.4	3422.1	3422.1	3451.4	3505.7	3597.8	3639.6	3844.6	4124.9
10°	3547.6	3556.0	3560.1	3535.0	3509.9	3497.4	3514.1	3576.9	3606.2	3848.8	4216.9
12.5°	3748.4	3760.9	3765.1	3719.1	3685.6	3631.3	3602.0	3627.1	3648.0	3890.6	4346.6
15°	4020.3	4028.7	3999.4	3970.1	3886.4	3819.5	3748.4	3727.5	3735.8	3978.5	4493.0
17.5°	4338.3	4325.7	4325.7	4254.6	4145.8	4041.2	3924.1	3907.4	3907.4	4120.7	4702.2
20°	4685.5	4698.0	4660.4	4564.2	4455.4	4292.2	4175.1	4099.8	4108.2	4283.9	4957.4
22.5°	5187.5	5208.4	5108.0	4970.0	4802.6	4614.4	4447.0	4325.7	4329.9	4497.2	5221.0
25°	5727.2	5735.5	5672.8	5488.7	5262.8	4995.1	4773.3	4618.6	4614.4	4735.7	5559.8
27.5°	6279.4	6317.0	6191.5	6015.8	5806.7	5472.0	5179.1	4970.0	4936.5	5099.7	5982.4
30°	6848.3	6894.4	6773.0	6601.5	6342.1	6057.7	5710.4	5467.8	5446.9	5664.4	6547.1
32.5°	7421.5	7434.0	7337.8	7195.6	6961.3	6693.6	6413.3	6145.5	6124.6	6480.2	7279.2
35°	7890.0	7927.7	7860.7	7827.3	7655.8	7408.9	7137.0	6982.2	7036.6	7492.6	8228.9
37.5°	8454.8	8492.4	8417.1	8408.8	8354.4	8141.0	7952.8	7965.3	8019.7	8638.9	9228.7
40°	9270.6	9312.4	9120.0	9036.3	9036.3	8827.1	8764.4	9061.4	9132.5	9768.4	10270.4
42.5°	9960.8	10027.8	9914.8	9860.4	9697.3	9550.9	9626.2	10044.5	10165.8	10847.7	11178.2
45°	10295.5	10345.7	10479.6	10638.6	10479.6	10224.4	10508.9	10981.6	11153.1	11843.4	12086.1
47.5°	10475.4	10521.4	10676.2	11102.9	11211.7	10998.3	11400.0	11989.8	12107.0	12830.7	12952.0
50°	10500.5	10646.9	10847.7	11274.5	11772.3	11801.6	12295.2	13014.8	13152.8	13801.3	13713.4
52.5°	10295.5	10354.1	10768.3	11487.8	12040.0	12542.0	13270.0	13997.9	14098.3	14713.3	14387.0
55°	9960.8	10044.5	10458.7	11437.6	12299.4	13244.9	14261.5	14964.3	15077.2	15600.2	15010.3
57.5°	9659.6	9701.5	10144.9	11291.2	12558.8	13947.7	15144.2	15972.5	16047.8	16378.3	15470.5
60°	9325.0	9371.0	9814.4	10977.4	12751.2	14479.0	16064.5	16989.1	17056.0	17198.3	16006.0
62.5°	8459.0	8580.3	9136.7	10458.7	12701.0	15085.6	17047.6	17993.1	18076.8	17922.0	16428.5
65°	6869.3	7040.8	7722.7	9283.1	12232.5	15478.8	17850.9	18917.7	19059.9	18465.8	16541.4
67.5°	5333.9	5455.2	6003.3	7367.1	10588.4	15282.2	18369.6	19553.5	19595.4	18378.0	15913.9
68°	5057.8	5179.1	5702.1	6965.5	10132.4	15047.9	18357.1	19570.3	19662.3	18281.8	15671.3
70°	3869.7	4007.8	4505.6	5518.0	8166.1	13558.6	17591.5	19168.7	19156.1	17118.8	14165.2
72.5°	2418.0	2497.5	2840.6	3480.6	5400.9	10316.4	14930.8	16905.4	16938.9	13956.1	10864.5
75°	1535.3	1535.3	1518.6	1685.9	2769.5	5877.8	11098.8	13014.8	13039.9	9772.6	6848.3
77.5°	1334.5	1296.9	1117.0	945.5	1104.4	2284.2	6568.1	8404.6	8266.5	5262.8	3250.6
80°	1125.4	1062.6	916.2	761.4	711.2	715.4	2522.6	4267.1	4083.1	1895.1	1079.3
82.5°	811.6	757.2	690.3	598.2	548.0	426.7	527.1	1234.1	1204.8	548.0	351.4
85°	439.3	397.4	389.1	393.2	330.5	263.6	221.7	271.9	271.9	238.5	200.8
87.5°	154.8	113.0	133.9	150.6	129.7	108.8	87.9	104.6	108.8	104.6	96.2
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°	4145.8	4145.8	4145.8	4145.8	4145.8	4145.8	4145.8	4145.8	4145.8	4145.8	4145.8
2.5°	4162.6	4204.4	4304.8	4392.6	4455.4	4509.8	4539.1	4551.6	4580.9	4585.1	4576.7
5°	4196.0	4304.8	4455.4	4585.1	4656.2	4685.5	4693.9	4698.0	4685.5	4693.9	4685.5
7.5°	4283.9	4421.9	4635.3	4748.2	4760.8	4714.8	4719.0	4702.2	4719.0	4735.7	4735.7
10°	4417.7	4593.5	4794.3	4836.1	4781.7	4756.6	4806.8	4907.2	4940.7	4986.7	4986.7
12.5°	4593.5	4802.6	4944.9	4907.2	4857.0	4940.7	5087.1	5187.5	5221.0	5237.7	5225.2
15°	4794.3	5020.2	5091.3	4965.8	5057.8	5237.7	5287.9	5229.3	5145.7	5108.0	5128.9
17.5°	5049.5	5237.7	5195.9	5112.2	5321.4	5346.5	5183.3	4995.1	4861.2	4811.0	4844.5
20°	5317.2	5480.3	5287.9	5325.6	5455.2	5187.5	4877.9	4635.3	4518.1	4497.2	4530.7
22.5°	5601.7	5706.3	5379.9	5572.4	5379.9	4836.1	4463.8	4338.3	4309.0	4342.4	4371.7
25°	5923.8	5911.2	5538.9	5647.7	5099.7	4405.2	4183.5	4175.1	4175.1	4196.0	4237.9
27.5°	6287.8	6091.1	5697.9	5547.3	4614.4	4049.6	4007.8	4011.9	3999.4	4003.6	4024.5
30°	6710.3	6333.8	5873.6	5216.8	4070.5	3781.9	3765.1	3752.6	3723.3	3714.9	3723.3
32.5°	7241.6	6589.0	6053.5	4672.9	3593.6	3505.7	3497.4	3430.4	3359.3	3351.0	3380.2
35°	7915.1	7053.3	6145.5	3991.0	3200.4	3196.2	3166.9	3062.3	2970.3	2970.3	2949.3
37.5°	8684.9	7651.6	6183.2	3325.9	2874.0	2895.0	2811.3	2677.4	2606.3	2564.5	2577.0
40°	9471.4	8333.5	6179.0	2744.4	2589.6	2593.8	2531.0	2367.8	2192.1	2087.6	2112.7
42.5°	10228.6	8952.6	6070.2	2434.8	2359.5	2346.9	2296.7	2075.0	1928.6	1844.9	1849.1
45°	10835.2	9592.7	5902.9	2250.7	2150.3	2171.2	2058.3	1924.4	1790.5	1715.2	1711.0
47.5°	11441.8	10078.0	5635.1	2137.8	1995.5	1957.9	1911.8	1819.8	1719.4	1635.7	1639.9
50°	11994.0	10492.1	5384.1	2062.5	1853.3	1757.1	1765.4	1711.0	1623.2	1547.9	1543.7
52.5°	12383.1	10764.1	5246.1	2020.6	1681.8	1577.2	1606.5	1577.2	1493.5	1439.1	1434.9
55°	12772.1	10973.2	5292.1	1966.2	1493.5	1409.8	1460.0	1451.7	1405.6	1388.9	1393.1
57.5°	13085.9	11132.2	5455.2	1865.8	1313.6	1263.4	1347.1	1322.0	1288.5	1292.7	1292.7
60°	13391.3	11337.2	5647.7	1635.7	1158.8	1163.0	1242.5	1196.5	1175.6	1213.2	1217.4
62.5°	13709.2	11558.9	5488.7	1301.1	1025.0	1054.2	1146.3	1108.6	1117.0	1171.4	1188.1
65°	13671.6	11538.0	4472.1	1066.8	907.8	966.4	1104.4	1091.9	1096.1	1117.0	1125.4
67.5°	12901.8	10801.7	3074.9	907.8	824.1	895.3	1071.0	1020.8	1025.0	1012.4	1016.6
68°	12642.5	10542.3	2710.9	882.7	807.4	878.5	1054.2	1008.2	1012.4	999.8	995.7
70°	11228.4	9027.9	1715.2	778.1	748.8	832.5	970.6	953.8	949.6	941.3	941.3
72.5°	8559.4	6664.3	903.6	673.5	681.9	761.4	866.0	899.4	878.5	882.7	907.8
75°	5668.6	4007.8	627.5	577.3	598.2	652.6	769.8	836.7	815.8	828.3	815.8
77.5°	2999.5	2158.7	502.0	489.5	489.5	527.1	635.9	740.5	740.5	732.1	719.6
80°	983.1	761.4	401.6	384.9	393.2	414.2	510.4	606.6	619.2	602.4	594.1
82.5°	330.5	351.4	301.2	280.3	288.7	305.4	384.9	464.4	468.5	435.1	426.7
85°	205.0	234.3	188.3	184.1	184.1	188.3	234.3	255.2	234.3	209.2	217.5
87.5°	96.2	117.1	87.9	75.3	62.8	54.4	41.8	16.7	16.7	8.4	8.4
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)