

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: P842345

Luminaire Tested: **ARCH4-300-750-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842345
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-300-750-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44097 lumens
Efficiency: N/A
Efficacy: 147.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

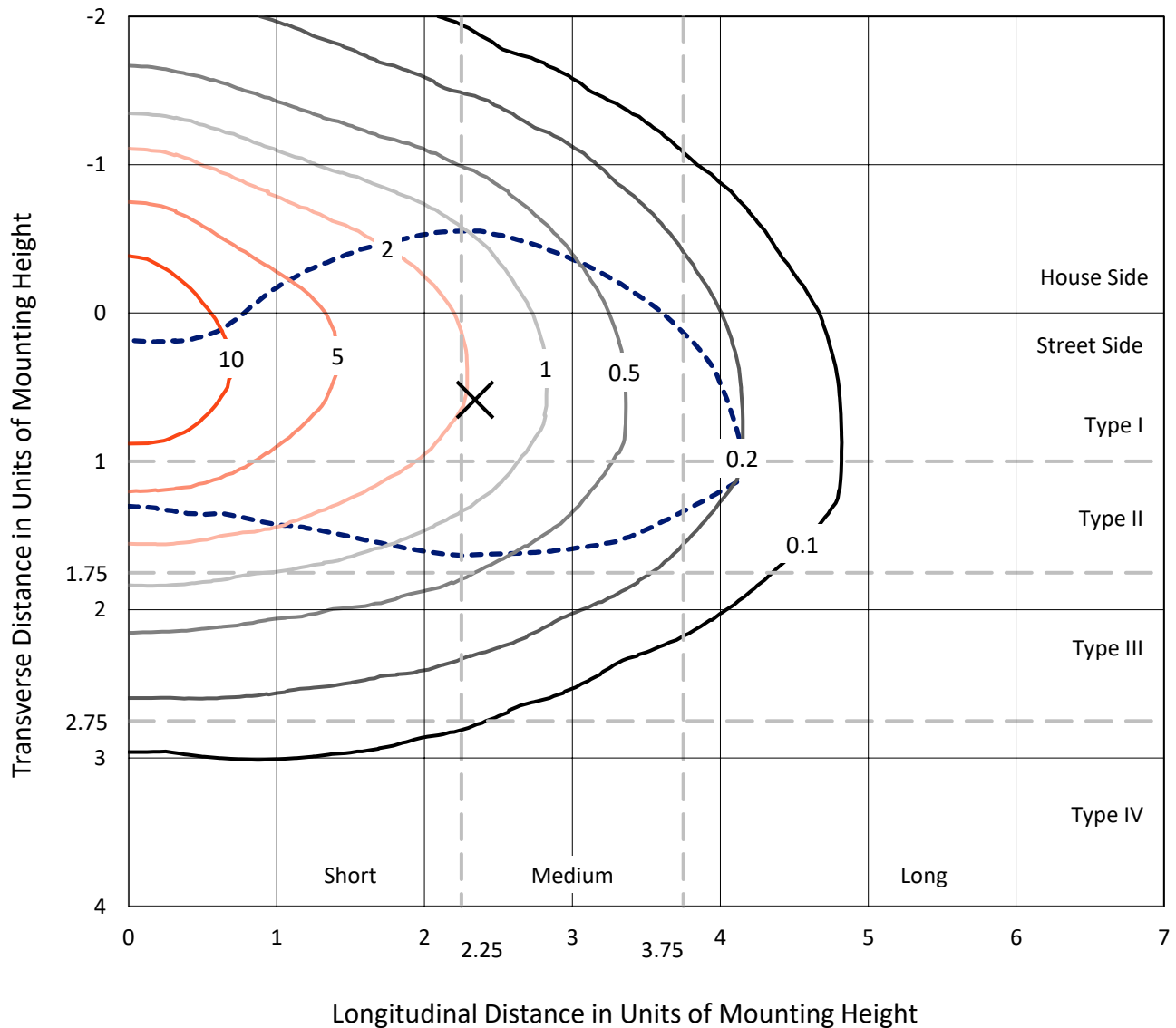
Input Watts (W): 299.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

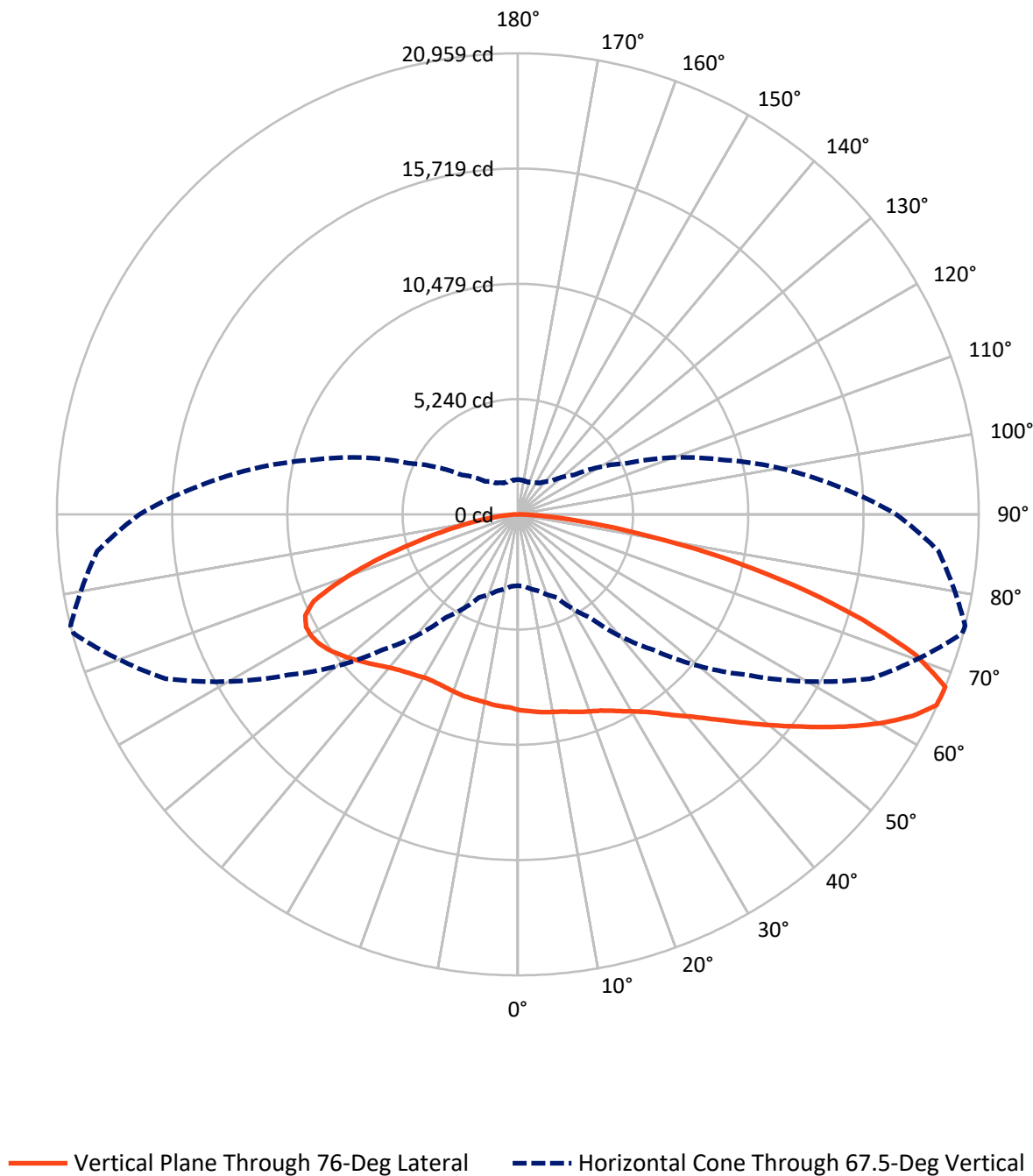
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14900.6	0.0	14900.6
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	29196.4	0.0	29196.4
	% Fixture	66.2	0.0	66.2
Total	Lumens	44097.0	0.0	44097.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	858.9	1.9
10°-20°	2625.9	6.0
20°-30°	4461.5	10.1
30°-40°	6348.1	14.4
40°-50°	8017.4	18.2
50°-60°	8680.4	19.7
60°-70°	8073.7	18.3
70°-80°	4336.3	9.8
80°-90°	694.8	1.6
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°	44097.0	100.0
0°-180°	44097.0	100.0

Coefficient of Utilization



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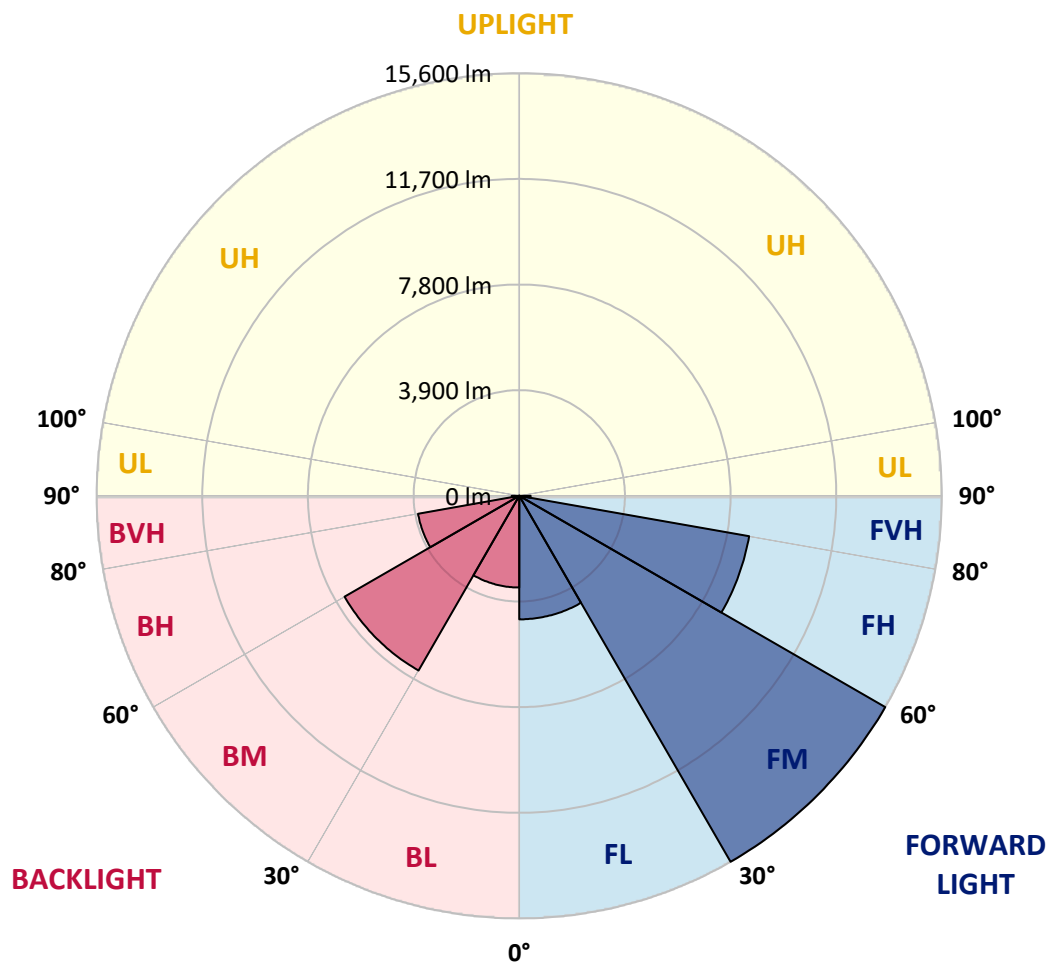
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4560.1	10.3			
FM	(30°-60°)	15599.8	35.4			
FH	(60°-80°)	8616.1	19.5			G4/12000
FVH	(80°-90°)	420.3	1.0			G3/500
BL	(0°-30°)	3386.2	7.7	B4/5000		
BM	(30°-60°)	7446.0	16.9	B4/8500		
BH	(60°-80°)	3793.8	8.6	B4/5000		G4/5000
BVH	(80°-90°)	274.5	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	8907.5	8907.5	8907.5	8907.5	8907.5	8907.5	8907.5	8907.5	8907.5	8907.5	8907.5
2.5°	9177.7	9161.3	9095.8	9104.0	9104.0	9095.8	8997.6	8956.6	8956.6	8948.4	8858.4
5°	9505.2	9480.6	9406.9	9390.5	9357.8	9316.8	9161.3	9071.2	9030.3	9022.1	8899.3
7.5°	9889.9	9857.2	9767.1	9718.0	9636.1	9529.7	9333.2	9194.0	9095.8	9087.6	8915.7
10°	10274.7	10242.0	10135.6	10045.5	9930.9	9758.9	9505.2	9300.5	9144.9	9128.5	8923.9
12.5°	10733.2	10700.5	10569.5	10454.8	10282.9	10053.7	9718.0	9439.7	9226.8	9202.2	8948.4
15°	11216.2	11167.1	11036.1	10905.1	10692.3	10397.5	9996.4	9628.0	9357.8	9316.8	9022.1
17.5°	11617.4	11551.9	11445.5	11314.5	11077.1	10733.2	10274.7	9816.3	9480.6	9447.8	9095.8
20°	11961.3	11912.1	11797.5	11674.7	11420.9	11044.3	10536.7	10004.6	9595.2	9554.3	9153.1
22.5°	12288.7	12223.2	12157.8	12067.7	11789.3	11371.8	10839.6	10233.8	9742.6	9693.5	9226.8
25°	12665.3	12591.7	12567.1	12518.0	12190.5	11764.8	11208.1	10520.3	9947.3	9889.9	9357.8
27.5°	13132.0	13050.1	13001.0	13001.0	12608.0	12165.9	11601.0	10856.0	10184.7	10135.6	9521.5
30°	13623.2	13525.0	13451.3	13451.3	13009.2	12567.1	11985.8	11191.7	10454.8	10397.5	9734.4
32.5°	14057.1	13958.9	13877.0	13868.8	13410.4	12968.3	12387.0	11560.1	10782.3	10708.6	9996.4
35°	14392.8	14302.8	14229.1	14245.4	13811.5	13377.6	12837.3	12051.3	11191.7	11109.8	10340.2
37.5°	14597.5	14564.7	14523.8	14581.1	14179.9	13770.6	13303.9	12526.2	11658.3	11584.7	10766.0
40°	14703.9	14679.4	14843.1	14916.8	14491.1	14122.6	13770.6	13017.4	12165.9	12084.1	11257.2
42.5°	14859.5	15064.1	15129.6	15113.3	14720.3	14392.8	14196.3	13549.5	12763.6	12689.9	11846.6
45°	14302.8	14253.6	14613.9	14810.4	14736.7	14564.7	14597.5	14188.1	13459.5	13385.8	12526.2
47.5°	13557.7	13492.2	13696.9	14179.9	14466.5	14630.2	14957.7	14851.3	14261.8	14196.3	13320.3
50°	11985.8	12075.9	12837.3	13484.1	14049.0	14613.9	15260.6	15563.6	15146.0	15080.5	14171.8
52.5°	10242.0	10332.0	11126.2	12616.2	13541.4	14491.1	15481.7	16275.8	16103.9	16030.2	15080.5
55°	8973.0	9169.5	10070.1	11150.7	12820.9	14106.3	15612.7	17004.5	17135.5	17070.0	16071.2
57.5°	7712.2	7859.6	8539.1	9497.0	11838.5	13434.9	15604.5	17684.0	18216.2	18150.7	17078.2
60°	6230.3	6418.6	6959.0	7990.5	10528.5	12632.6	15375.3	18216.2	19255.9	19206.8	18052.4
62.5°	5215.1	5272.5	5657.2	6549.6	8842.0	11617.4	14859.5	18502.7	20197.4	20164.7	18928.4
65°	4200.0	4208.1	4560.2	5305.2	7212.8	10356.6	13983.5	18396.3	20909.7	20926.1	19558.8
67.5°	3242.1	3283.0	3602.3	4167.2	5730.9	8719.2	12730.8	17675.8	20917.9	20958.8	19198.6
70°	2243.2	2276.0	2759.0	3307.6	4429.2	6950.8	11036.1	15768.2	19198.6	19231.4	17209.2
72.5°	1580.1	1596.5	2112.3	2644.4	3463.1	5239.7	8326.2	13042.0	16365.9	16390.4	14474.7
75°	1178.9	1195.3	1490.0	2005.8	2652.6	3626.9	5690.0	9988.2	13074.7	13074.7	11429.1
77.5°	835.1	843.3	966.1	1383.6	1768.4	2447.9	3422.2	6541.4	9595.2	9611.6	8326.2
80°	564.9	573.1	630.4	933.3	1105.3	1326.3	1858.5	3430.4	6050.2	6074.8	5288.8
82.5°	294.7	311.1	352.0	474.8	556.7	736.8	957.9	1743.8	3348.5	3414.0	3176.6
85°	114.6	114.6	131.0	155.6	204.7	286.5	442.1	663.2	1514.6	1563.7	1400.0
87.5°	40.9	40.9	49.1	49.1	57.3	65.5	73.7	98.2	171.9	171.9	163.7
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°	8907.5	8907.5	8907.5	8907.5	8907.5	8907.5	8907.5	8907.5	8907.5	8907.5	8907.5
2.5°	8825.6	8825.6	8784.7	8801.1	8792.9	8776.5	8760.1	8784.7	8760.1	8702.8	8694.6
5°	8842.0	8825.6	8760.1	8751.9	8727.4	8694.6	8653.7	8670.1	8629.1	8580.0	8571.8
7.5°	8850.2	8817.4	8727.4	8694.6	8645.5	8580.0	8514.5	8514.5	8457.2	8408.1	8399.9
10°	8833.8	8792.9	8670.1	8604.6	8514.5	8416.3	8326.2	8301.7	8236.2	8178.9	8178.9
12.5°	8842.0	8784.7	8629.1	8522.7	8399.9	8277.1	8162.5	8129.7	8072.4	8015.1	8006.9
15°	8891.1	8809.3	8612.8	8473.6	8293.5	8154.3	8031.5	8006.9	7957.8	7916.9	7916.9
17.5°	8940.2	8833.8	8588.2	8391.7	8170.7	8015.1	7900.5	7900.5	7867.7	7843.2	7843.2
20°	8964.8	8842.0	8539.1	8277.1	8023.3	7859.6	7753.1	7769.5	7761.3	7753.1	7753.1
22.5°	9022.1	8858.4	8498.1	8170.7	7867.7	7695.8	7597.6	7622.1	7613.9	7613.9	7622.1
25°	9112.2	8899.3	8465.4	8072.4	7720.4	7532.1	7425.6	7442.0	7442.0	7442.0	7442.0
27.5°	9235.0	8981.2	8457.2	7982.4	7573.0	7360.1	7229.2	7229.2	7196.4	7204.6	7212.8
30°	9423.3	9136.7	8473.6	7900.5	7417.5	7147.3	6991.7	6967.2	6959.0	6975.4	6983.5
32.5°	9652.5	9349.6	8571.8	7843.2	7253.7	6909.9	6713.4	6705.2	6680.6	6680.6	6680.6
35°	9939.1	9554.3	8661.9	7835.0	7090.0	6656.1	6443.2	6418.6	6361.3	6336.8	6336.8
37.5°	10307.5	9873.6	8768.3	7777.7	6950.8	6410.5	6156.7	6074.8	6009.3	6001.1	6001.1
40°	10757.8	10233.8	8923.9	7712.2	6803.4	6156.7	5821.0	5681.8	5690.0	5722.7	5722.7
42.5°	11289.9	10675.9	9120.4	7679.4	6590.6	5894.7	5428.0	5264.3	5321.6	5354.3	5362.5
45°	11912.1	11199.9	9341.4	7638.5	6394.1	5599.9	5010.5	4805.8	4830.4	4838.5	4846.7
47.5°	12632.6	11781.1	9570.6	7605.8	6173.0	5231.5	4552.0	4281.8	4273.6	4224.5	4240.9
50°	13385.8	12395.2	9808.1	7548.4	5902.9	4797.6	4069.0	3749.7	3684.2	3610.5	3618.7
52.5°	14188.1	13025.6	10029.1	7458.4	5567.2	4355.5	3610.5	3266.6	3135.6	3053.8	3070.1
55°	15072.3	13672.4	10242.0	7319.2	5215.1	3913.4	3201.1	2849.1	2685.3	2619.9	2628.0
57.5°	15882.9	14294.6	10397.5	7147.3	4830.4	3512.2	2840.9	2497.0	2390.6	2382.4	2390.6
60°	16668.8	14818.5	10463.0	6909.9	4437.4	3143.8	2505.2	2243.2	2169.6	2210.5	2218.7
62.5°	17332.0	15154.2	10430.3	6590.6	4036.2	2791.8	2235.1	2046.8	1997.6	2079.5	2087.7
65°	17716.7	15260.6	10201.0	6132.1	3602.3	2447.9	1981.3	1776.6	1752.0	1801.1	1825.7
67.5°	17209.2	14597.5	9578.8	5501.7	3119.3	2128.6	1735.7	1571.9	1531.0	1571.9	1571.9
70°	15252.5	12649.0	8105.2	4502.9	2587.1	1817.5	1506.4	1391.8	1359.0	1391.8	1383.6
72.5°	12706.3	10520.3	6385.9	3512.2	2038.6	1531.0	1309.9	1203.5	1170.7	1138.0	1121.6
75°	9857.2	7990.5	4633.9	2578.9	1539.2	1228.1	1097.1	998.8	916.9	949.7	933.3
77.5°	7221.0	5608.1	3283.0	1784.8	1105.3	949.7	859.6	786.0	728.6	794.1	786.0
80°	4650.2	3626.9	2194.1	1195.3	761.4	663.2	630.4	589.5	646.8	843.3	859.6
82.5°	2840.9	2300.6	1309.9	777.8	499.4	442.1	409.4	409.4	663.2	728.6	736.8
85°	1269.0	1219.9	712.3	401.2	278.4	253.8	229.2	294.7	270.2	196.5	204.7
87.5°	204.7	212.9	155.6	139.2	106.4	106.4	81.9	57.3	40.9	24.6	24.6
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)