

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: P1211369

Luminaire Tested: **ARCH4-250-750-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211369
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: ARCH4-250-750-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 975mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37416 lumens
Efficiency: N/A
Efficacy: 150.0 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): 249.5
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

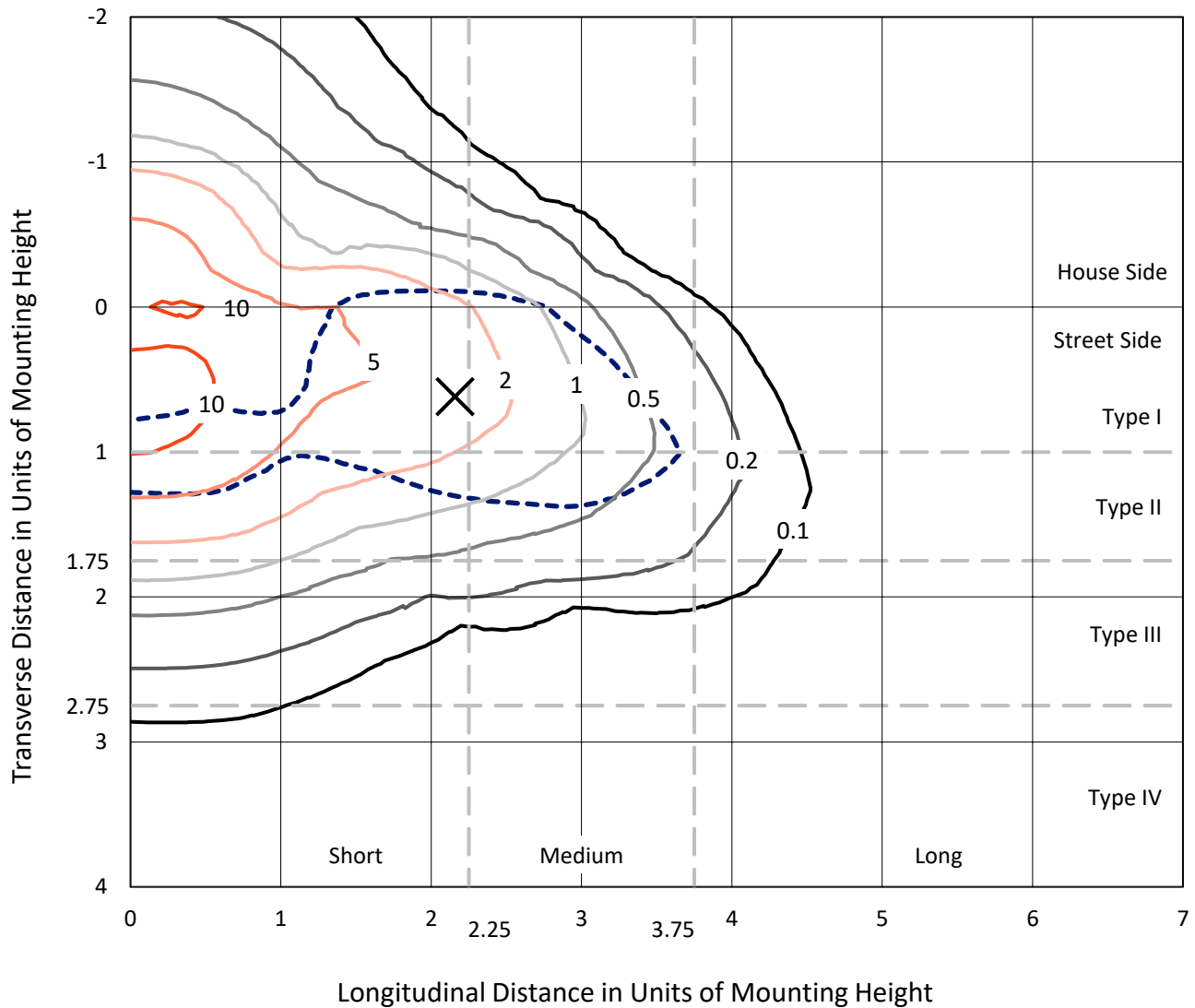


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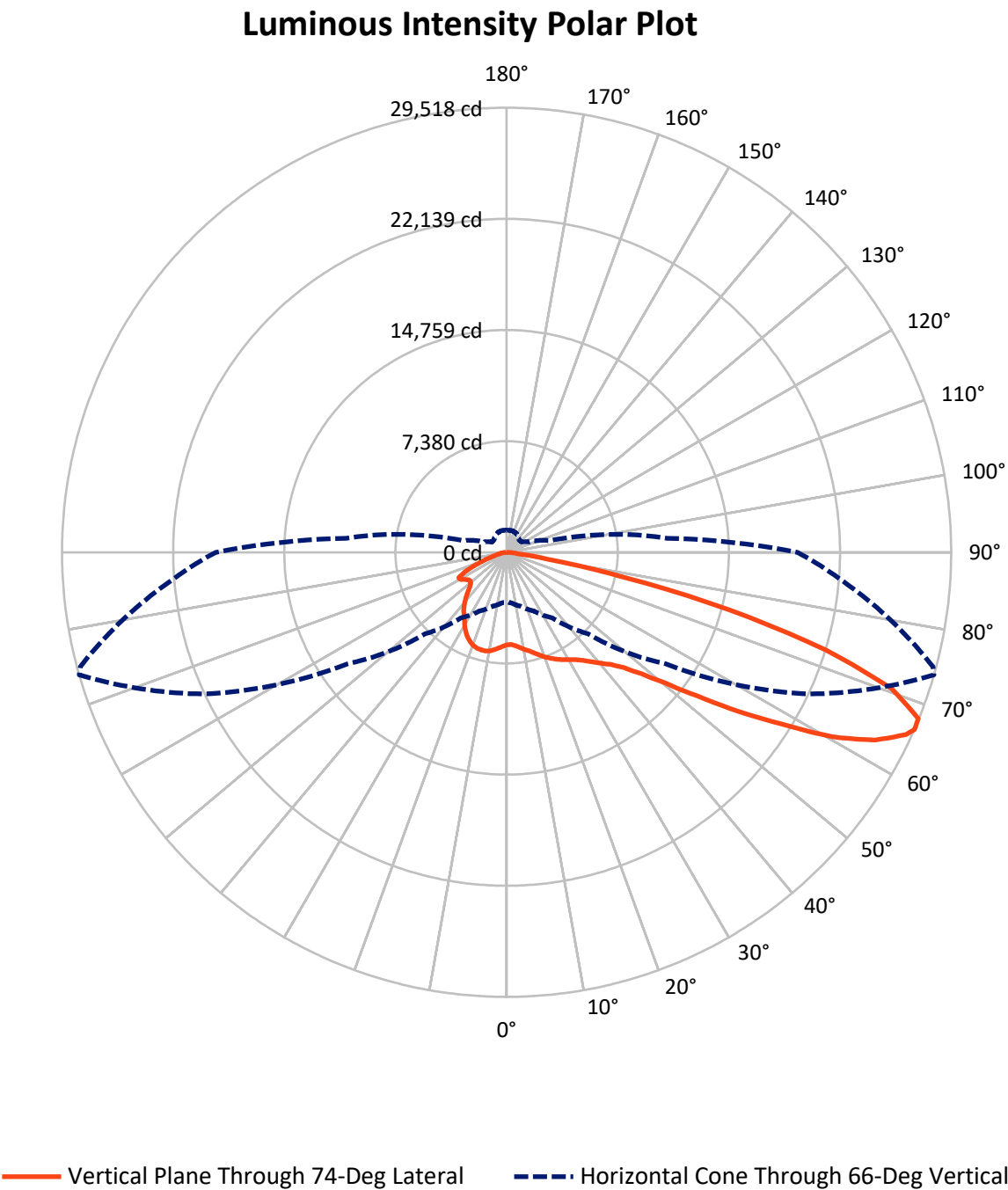
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9111.8	0.0	9111.8
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	28304.2	0.0	28304.2
	% Fixture	75.6	0.0	75.6
Total	Lumens	37416.0	0.0	37416.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	585.1	1.6
10°-20°	1799.3	4.8
20°-30°	3376.4	9.0
30°-40°	5193.7	13.9
40°-50°	6986.0	18.7
50°-60°	8261.8	22.1
60°-70°	7642.6	20.4
70°-80°	3215.2	8.6
80°-90°	355.8	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°	37416.0	100.0
0°-180°	37416.0	100.0

Coefficient of Utilization



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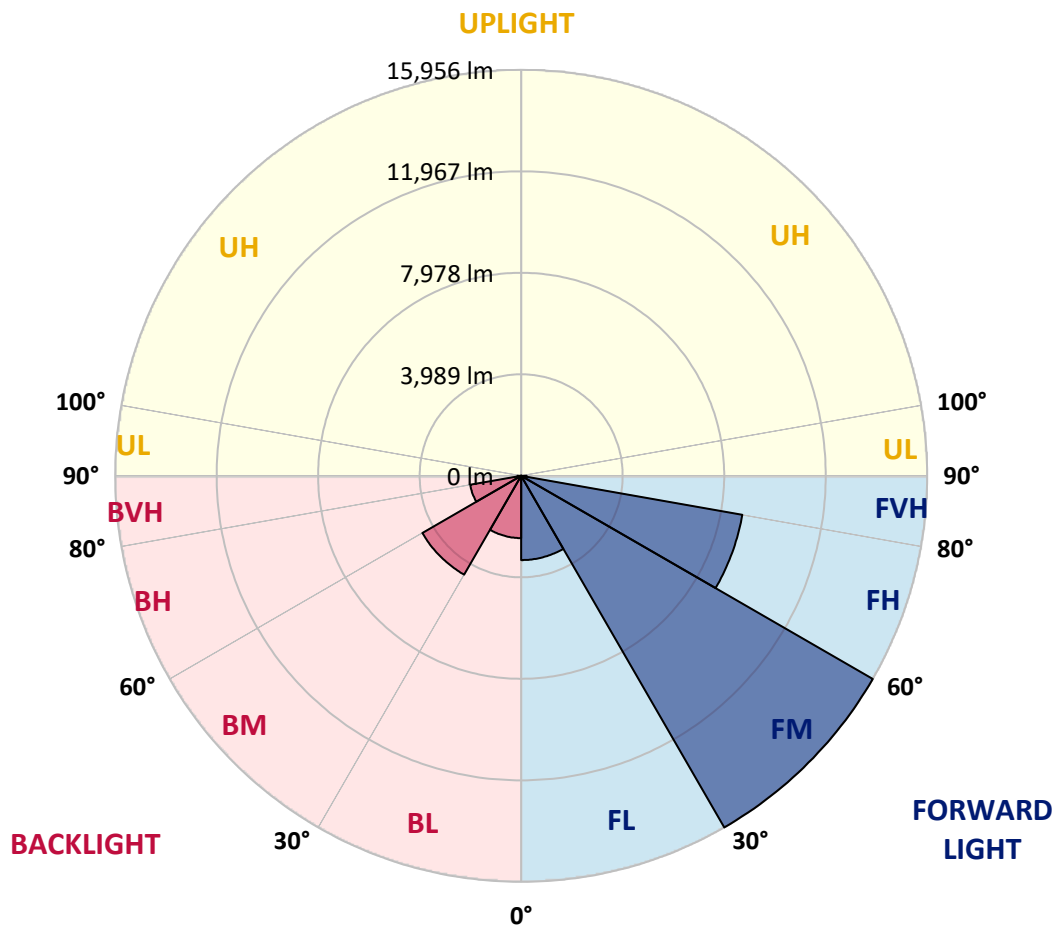
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3311.8	8.9			
FM	(30°-60°)	15955.8	42.6			
FH	(60°-80°)	8823.7	23.6			G4/12000
FVH	(80°-90°)	212.9	0.6			G2/225
BL	(0°-30°)	2449.1	6.5	B3/2500		
BM	(30°-60°)	4485.8	12.0	B3/5000		
BH	(60°-80°)	2034.1	5.4	B3/2500		G3/2500
BVH	(80°-90°)	142.9	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°	6133.7	6133.7	6133.7	6133.7	6133.7	6133.7	6133.7	6133.7	6133.7	6133.7	6133.7
2.5°	6114.5	6104.8	6124.1	6153.0	6167.4	6143.4	6133.7	6128.9	6128.9	6114.5	6138.5
5°	5825.6	5820.8	5864.1	5917.1	6018.2	6090.4	6186.7	6244.5	6225.2	6196.3	6215.6
7.5°	5450.1	5440.4	5493.4	5594.5	5734.1	5893.0	6128.9	6311.9	6384.1	6374.5	6369.6
10°	5594.5	5584.9	5580.1	5551.2	5599.3	5753.4	5998.9	6321.5	6567.0	6571.8	6576.7
12.5°	6095.2	6119.3	6095.2	6003.7	5897.8	5840.0	5984.5	6345.6	6721.1	6750.0	6870.4
15°	6778.9	6754.8	6706.7	6600.7	6437.0	6263.7	6157.8	6456.3	6942.6	6966.6	7231.4
17.5°	7380.7	7400.0	7371.1	7270.0	7077.4	6851.1	6528.5	6648.9	7178.5	7245.9	7616.6
20°	8035.5	8112.5	8074.0	7948.8	7789.9	7452.9	7048.5	6928.1	7438.5	7486.6	8016.2
22.5°	8791.4	8873.2	8801.0	8680.6	8550.6	8136.6	7616.6	7270.0	7655.1	7756.2	8401.4
25°	9696.5	9773.5	9706.1	9518.3	9354.7	8849.1	8228.1	7655.1	7867.0	7977.7	8714.3
27.5°	10413.9	10471.6	10534.2	10423.5	10173.1	9648.3	8863.6	8054.7	8078.8	8194.4	9003.2
30°	11054.2	11198.6	11251.6	11266.0	11054.2	10466.8	9513.5	8468.8	8261.8	8382.1	9292.1
32.5°	11930.4	12147.1	12060.4	12147.1	12021.9	11237.1	10187.6	8897.3	8497.7	8608.4	9566.5
35°	13211.1	13384.4	13158.1	13090.7	12888.5	12017.1	10837.5	9340.2	8810.6	8931.0	9826.5
37.5°	14588.1	14785.5	14458.1	14188.5	13803.3	12787.4	11396.0	9922.8	9243.9	9340.2	10067.2
40°	15791.7	15955.4	15671.3	15315.1	14669.9	13466.3	11877.5	10332.0	9677.2	9797.6	10346.5
42.5°	16903.9	17009.8	16692.0	16350.2	15488.4	14077.7	12397.4	10765.3	10182.8	10298.3	10572.7
45°	18030.5	18112.3	17669.4	17183.1	16172.0	14636.2	12970.4	11371.9	10924.2	11078.3	10938.6
47.5°	18232.7	18256.7	18179.7	17852.3	16711.3	15170.6	13678.1	12185.6	12055.6	12224.1	11569.3
50°	16831.6	17048.3	17524.9	17847.5	16927.9	15618.4	14385.9	13350.7	13615.5	13832.2	12878.9
52.5°	14111.4	14318.4	15421.0	16643.9	16408.0	15719.5	15146.5	14828.8	15815.8	16075.8	14660.3
55°	11242.0	11424.9	12590.0	14352.1	14727.7	15257.3	15960.2	16716.1	18622.6	18796.0	16615.0
57.5°	9258.4	9359.5	10192.4	11887.1	12488.9	13779.2	16398.3	18959.7	21477.7	21742.5	18314.5
60°	7592.5	7703.3	8324.3	9720.6	10519.8	11665.6	16051.7	21174.4	24886.4	24886.4	20495.5
62.5°	5714.9	5811.2	6388.9	7481.8	8825.1	9874.6	14944.3	22642.8	27457.3	27341.8	22074.7
65°	3923.9	4000.9	4419.7	5146.7	6355.2	8415.8	13432.6	22662.0	29161.7	29007.6	22748.7
66°	3293.1	3360.6	3716.8	4304.2	5320.1	7635.9	12898.2	22252.8	29518.0	29301.3	22464.7
67.5°	2599.9	2648.0	2883.9	3230.6	3899.8	6181.9	12055.6	21092.5	29484.3	29354.3	21742.5
70°	1858.4	1892.1	2065.4	2137.7	2306.2	3577.2	9576.1	18473.4	27120.3	27158.8	18901.9
72.5°	1439.5	1492.5	1598.4	1612.9	1574.4	1901.7	5811.2	15411.3	22185.4	22171.0	14029.6
75°	1160.3	1189.2	1242.2	1271.0	1261.4	1227.7	2460.2	11497.1	15271.7	15449.9	7857.3
77.5°	914.8	909.9	958.1	996.6	1025.5	962.9	1126.6	6740.4	8006.6	7780.3	2951.3
80°	674.0	674.0	741.4	755.9	799.2	808.8	751.1	2599.9	2749.1	2498.7	765.5
82.5°	442.9	442.9	515.2	524.8	568.1	630.7	544.0	780.0	760.7	722.2	346.6
85°	240.7	231.1	255.2	288.9	312.9	370.7	327.4	390.0	399.6	394.8	231.1
87.5°	48.1	43.3	67.4	77.0	86.7	115.5	105.9	158.9	221.5	216.7	101.1
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°	6133.7	6133.7	6133.7	6133.7	6133.7	6133.7	6133.7	6133.7	6133.7	6133.7	6133.7
2.5°	6172.2	6167.4	6220.4	6283.0	6355.2	6398.5	6417.8	6451.5	6427.4	6437.0	6465.9
5°	6263.7	6278.2	6355.2	6437.0	6470.7	6446.7	6393.7	6374.5	6331.1	6321.5	6311.9
7.5°	6398.5	6422.6	6499.6	6518.9	6417.8	6249.3	6128.9	6061.5	5989.3	5970.0	5960.4
10°	6620.0	6634.4	6653.7	6456.3	6205.9	5979.7	5830.4	5767.8	5719.7	5681.2	5690.8
12.5°	6899.2	6889.6	6740.4	6331.1	5974.8	5743.7	5642.6	5604.1	5570.4	5546.4	5541.5
15°	7250.7	7183.3	6754.8	6157.8	5758.2	5565.6	5493.4	5478.9	5440.4	5440.4	5435.6
17.5°	7607.0	7433.7	6745.2	5974.8	5551.2	5445.2	5401.9	5392.3	5382.7	5377.8	5392.3
20°	7963.3	7655.1	6668.1	5748.6	5406.7	5344.1	5334.5	5339.3	5329.7	5344.1	5334.5
22.5°	8276.2	7799.6	6523.7	5507.8	5305.6	5300.8	5276.7	5286.4	5320.1	5324.9	5339.3
25°	8516.9	7852.5	6311.9	5286.4	5233.4	5223.8	5252.7	5291.2	5320.1	5324.9	5349.0
27.5°	8714.3	7823.6	6047.1	5113.0	5108.2	5161.2	5247.9	5262.3	5267.1	5267.1	5247.9
30°	8863.6	7761.0	5710.0	4920.5	4944.5	5074.5	5156.4	5156.4	5117.9	5108.2	5137.1
32.5°	8897.3	7679.2	5344.1	4723.1	4761.6	4915.6	5016.8	4983.1	4939.7	4939.7	4959.0
35°	8926.2	7568.5	5050.5	4453.5	4511.2	4694.2	4790.5	4723.1	4674.9	4660.5	4655.7
37.5°	8916.5	7525.1	4785.7	4111.6	4188.7	4366.8	4429.4	4366.8	4294.6	4260.9	4304.2
40°	8926.2	7496.2	4453.5	3736.1	3813.1	3919.0	4000.9	3952.7	3885.3	3798.7	3842.0
42.5°	8983.9	7534.8	4087.5	3370.2	3370.2	3428.0	3567.6	3533.9	3370.2	3336.5	3375.0
45°	9292.1	7741.8	3721.6	3004.3	2951.3	2989.8	3134.3	2989.8	2888.7	2888.7	2922.4
47.5°	10038.3	8126.9	3399.1	2681.7	2556.5	2633.6	2672.1	2537.3	2460.2	2441.0	2474.7
50°	11559.7	8897.3	3206.5	2416.9	2262.8	2320.6	2296.5	2291.7	2214.7	2224.3	2243.6
52.5°	13870.7	10399.4	3148.7	2286.9	2094.3	2108.8	2084.7	2094.3	2079.9	2128.0	2142.5
55°	16388.7	11983.4	3220.9	2306.2	1978.8	1877.7	1887.3	1935.4	1993.2	2070.3	2084.7
57.5°	18271.2	12777.8	3408.7	2436.2	1834.3	1680.3	1704.3	1795.8	1906.6	1969.1	2002.8
60°	19672.2	12681.5	3683.1	2469.9	1661.0	1502.1	1545.5	1680.3	1776.6	1829.5	1863.2
62.5°	20129.6	12079.7	3750.5	2224.3	1434.7	1333.6	1439.5	1579.2	1622.5	1680.3	1704.3
65°	19754.1	11227.5	3259.4	1805.5	1261.4	1208.5	1362.5	1468.4	1526.2	1555.1	1559.9
66°	19311.1	10717.2	2994.6	1641.8	1198.8	1169.9	1333.6	1420.3	1478.1	1473.2	1478.1
67.5°	18338.6	9648.3	2566.2	1410.7	1107.3	1112.2	1285.5	1343.3	1362.5	1348.1	1348.1
70°	15031.0	6793.3	1839.2	1068.8	972.5	1039.9	1155.5	1169.9	1213.3	1194.0	1194.0
72.5°	9268.0	3336.5	1232.5	818.5	866.6	972.5	967.7	1015.9	1117.0	1145.9	1165.1
75°	4554.6	1352.9	813.7	693.3	775.1	813.7	804.0	924.4	1068.8	1194.0	1237.3
77.5°	1728.4	674.0	568.1	606.6	625.9	611.4	640.3	837.7	1068.8	1295.1	1338.4
80°	534.4	467.0	447.8	500.7	471.8	447.8	481.5	693.3	905.1	982.2	982.2
82.5°	322.6	365.9	346.6	341.8	317.8	322.6	346.6	495.9	698.1	731.8	731.8
85°	226.3	240.7	197.4	187.8	183.0	178.1	178.1	288.9	414.1	409.2	423.7
87.5°	86.7	96.3	72.2	72.2	67.4	48.1	38.5	48.1	48.1	33.7	24.1
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)