

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: P1211487

Luminaire Tested: **ARCH4-290-730-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211487
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: ARCH4-290-730-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1120mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39593 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 289.7
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

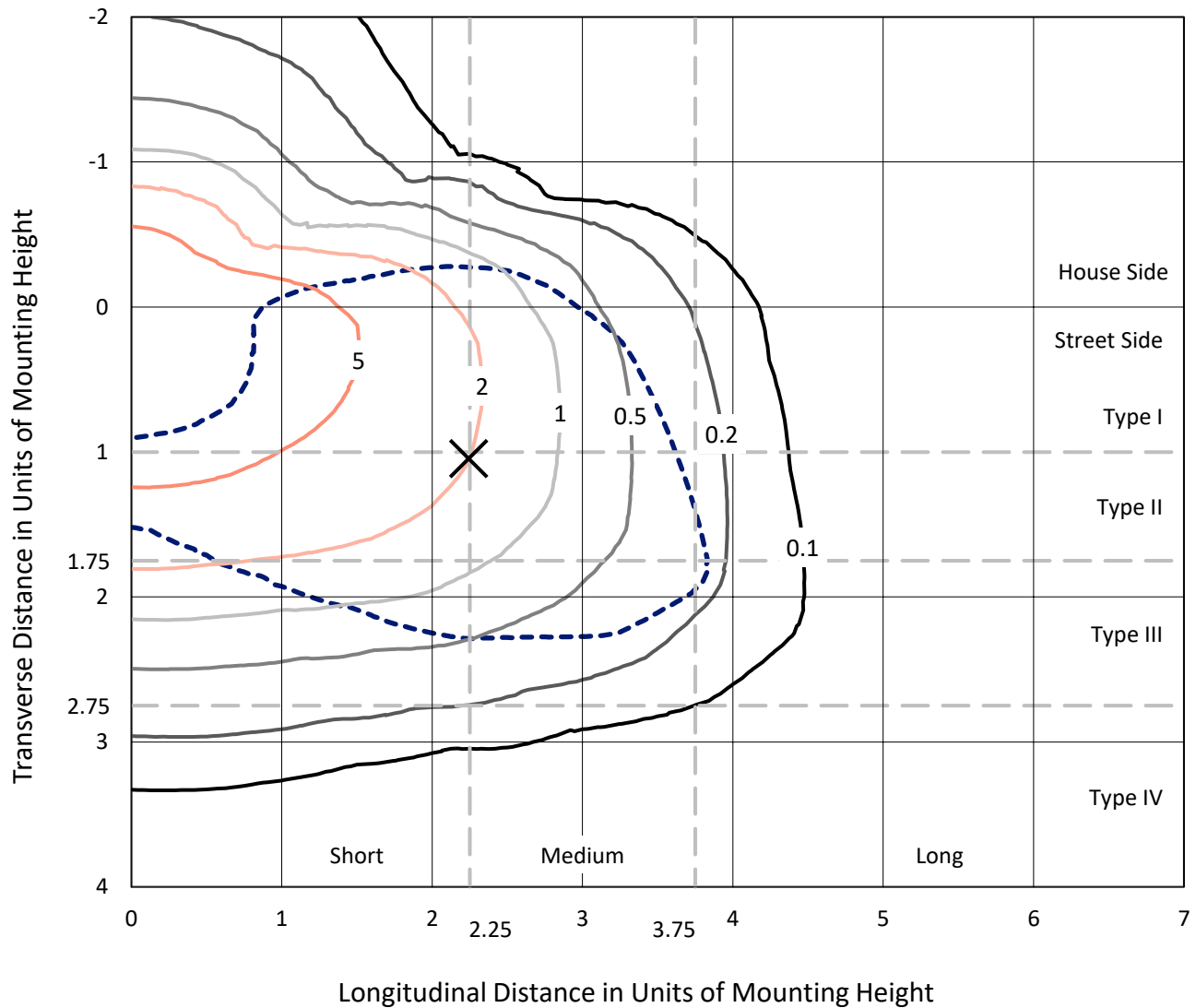


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

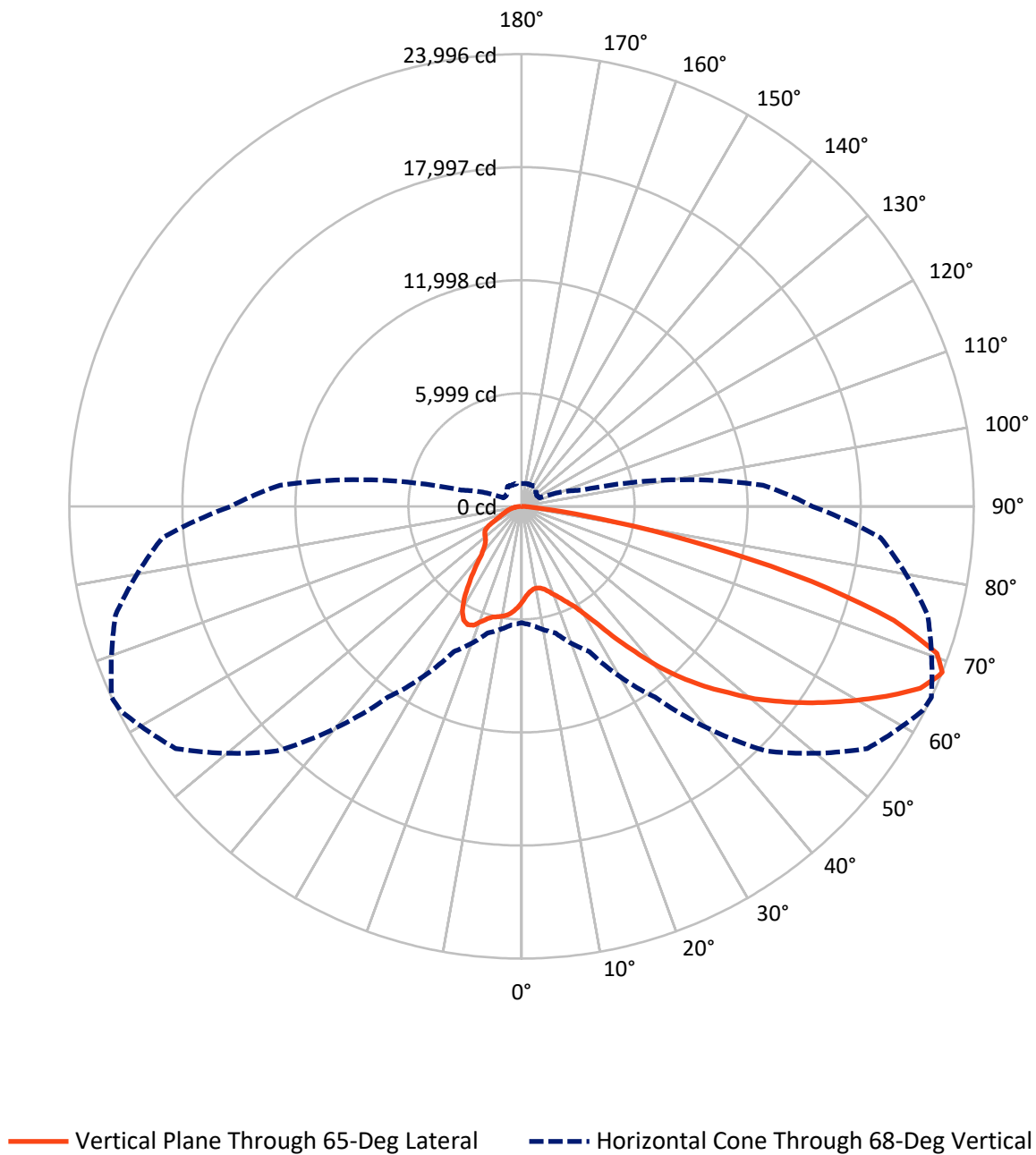


Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9707.0	0.0	9707.0
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	29886.0	0.0	29886.0
	% Fixture	75.5	0.0	75.5
Total	Lumens	39593.0	0.0	39593.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.6	1.2
10°-20°	1574.4	4.0
20°-30°	2849.5	7.2
30°-40°	4482.6	11.3
40°-50°	6676.3	16.9
50°-60°	8758.0	22.1
60°-70°	9577.4	24.2
70°-80°	4739.2	12.0
80°-90°	452.1	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°	39593.0	100.0
0°-180°	39593.0	100.0

Coefficient of Utilization



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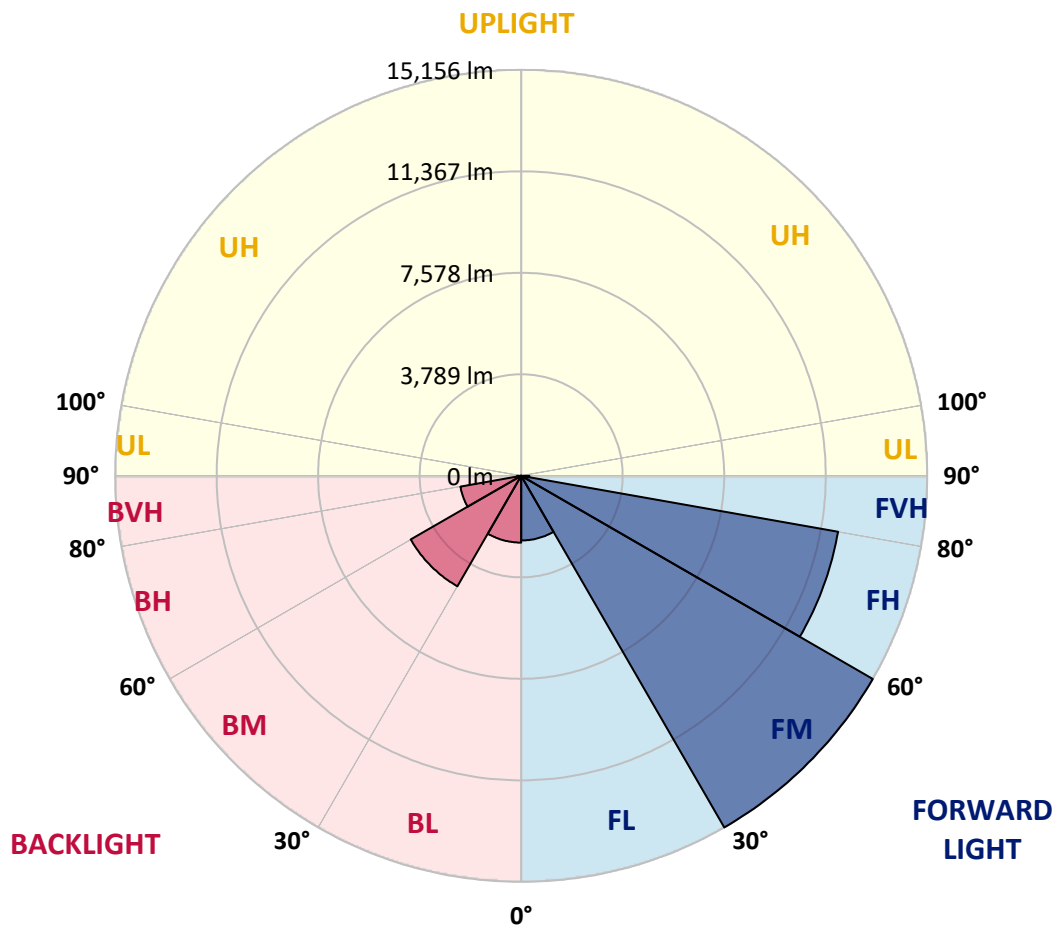
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2413.6	6.1			
FM	(30°-60°)	15155.7	38.3			
FH	(60°-80°)	12012.6	30.3			G5
FVH	(80°-90°)	304.0	0.8			G3/500
BL	(0°-30°)	2493.8	6.3	B3/2500		
BM	(30°-60°)	4761.2	12.0	B3/5000		
BH	(60°-80°)	2304.0	5.8	B3/2500		G3/2500
BVH	(80°-90°)	148.0	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-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	5059.5	5059.5	5059.5	5059.5	5059.5	5059.5	5059.5	5059.5	5059.5	5059.5	5059.5
2.5°	4416.2	4406.0	4431.5	4457.1	4513.2	4579.6	4671.5	4748.1	4758.3	4901.2	5013.6
5°	4155.8	4140.5	4166.0	4196.7	4222.2	4303.9	4400.9	4513.2	4559.2	4768.5	5008.4
7.5°	4181.4	4176.3	4186.5	4176.3	4176.3	4212.0	4278.4	4390.7	4441.7	4691.9	5034.0
10°	4329.4	4339.6	4344.7	4314.1	4283.5	4268.2	4288.6	4365.2	4400.9	4697.0	5146.3
12.5°	4574.5	4589.8	4594.9	4538.7	4497.9	4431.5	4395.8	4426.4	4452.0	4748.1	5304.6
15°	4906.3	4916.6	4880.8	4845.1	4743.0	4661.3	4574.5	4549.0	4559.2	4855.3	5483.3
17.5°	5294.4	5279.0	5279.0	5192.2	5059.5	4931.9	4788.9	4768.5	4768.5	5028.9	5738.5
20°	5718.1	5733.4	5687.5	5570.0	5437.3	5238.2	5095.2	5003.3	5013.6	5228.0	6050.0
22.5°	6330.8	6356.3	6233.8	6065.3	5861.1	5631.3	5427.1	5279.0	5284.1	5488.4	6371.6
25°	6989.4	6999.6	6923.0	6698.4	6422.7	6095.9	5825.3	5636.4	5631.3	5779.4	6785.1
27.5°	7663.3	7709.2	7556.1	7341.6	7086.4	6677.9	6320.6	6065.3	6024.4	6223.5	7300.8
30°	8357.6	8413.8	8265.7	8056.4	7739.9	7392.7	6968.9	6672.8	6647.3	6912.8	7990.0
32.5°	9057.1	9072.4	8955.0	8781.4	8495.5	8168.7	7826.7	7499.9	7474.4	7908.3	8883.5
35°	9628.9	9674.8	9593.1	9552.3	9343.0	9041.8	8709.9	8521.0	8587.4	9143.9	10042.4
37.5°	10318.1	10364.1	10272.2	10262.0	10195.6	9935.2	9705.5	9720.8	9787.2	10542.8	11262.6
40°	11313.7	11364.7	11129.9	11027.8	11027.8	10772.5	10695.9	11058.4	11145.2	11921.2	12533.9
42.5°	12156.1	12237.8	12099.9	12033.6	11834.4	11655.7	11747.6	12258.2	12406.3	13238.4	13641.8
45°	12564.5	12625.8	12789.2	12983.2	12789.2	12477.7	12824.9	13401.8	13611.1	14453.5	14749.7
47.5°	12784.1	12840.2	13029.1	13549.9	13682.6	13422.2	13912.4	14632.2	14775.2	15658.4	15806.5
50°	12814.7	12993.4	13238.4	13759.2	14366.7	14402.5	15004.9	15883.1	16051.5	16842.9	16735.7
52.5°	12564.5	12636.0	13141.4	14019.6	14693.5	15306.1	16194.5	17082.8	17205.4	17955.9	17557.7
55°	12156.1	12258.2	12763.6	13958.3	15010.0	16163.9	17404.5	18262.2	18400.1	19038.2	18318.4
57.5°	11788.5	11839.5	12380.7	13779.6	15326.6	17021.6	18481.7	19492.6	19584.5	19987.8	18880.0
60°	11380.1	11436.2	11977.4	13396.7	15561.4	17670.0	19604.9	20733.2	20814.9	20988.5	19533.5
62.5°	10323.2	10471.3	11150.3	12763.6	15500.2	18410.3	20804.7	21958.6	22060.7	21871.8	20049.1
65°	8383.2	8592.5	9424.7	11329.0	14928.3	18890.2	21785.0	23086.9	23260.4	22535.5	20187.0
67.5°	6509.5	6657.5	7326.3	8990.7	12921.9	18650.2	22418.0	23862.9	23913.9	22428.3	19421.1
68°	6172.5	6320.6	6958.7	8500.6	12365.4	18364.3	22402.7	23883.3	23995.6	22310.8	19125.0
70°	4722.5	4891.0	5498.6	6734.1	9965.8	16546.8	21468.4	23393.2	23377.9	20891.5	17287.1
72.5°	2951.0	3048.0	3466.6	4247.7	6591.1	12590.0	18221.4	20631.1	20672.0	17031.8	13258.9
75°	1873.7	1873.7	1853.3	2057.5	3379.8	7173.2	13544.8	15883.1	15913.7	11926.3	8357.6
77.5°	1628.6	1582.7	1363.2	1153.8	1347.8	2787.6	8015.6	10256.9	10088.4	6422.7	3966.9
80°	1373.4	1296.8	1118.1	929.2	867.9	873.0	3078.6	5207.6	4982.9	2312.8	1317.2
82.5°	990.5	924.1	842.4	730.1	668.8	520.8	643.3	1506.1	1470.4	668.8	428.9
85°	536.1	485.0	474.8	479.9	403.3	321.6	270.6	331.9	331.9	291.0	245.1
87.5°	188.9	137.8	163.4	183.8	158.3	132.7	107.2	127.6	132.7	127.6	117.4
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°	5059.5	5059.5	5059.5	5059.5	5059.5	5059.5	5059.5	5059.5	5059.5	5059.5	5059.5
2.5°	5079.9	5131.0	5253.5	5360.7	5437.3	5503.7	5539.4	5554.7	5590.5	5595.6	5585.4
5°	5120.8	5253.5	5437.3	5595.6	5682.4	5718.1	5728.3	5733.4	5718.1	5728.3	5718.1
7.5°	5228.0	5396.5	5656.8	5794.7	5810.0	5753.8	5759.0	5738.5	5759.0	5779.4	5779.4
10°	5391.4	5605.8	5850.8	5901.9	5835.5	5804.9	5866.2	5988.7	6029.5	6085.7	6085.7
12.5°	5605.8	5861.1	6034.6	5988.7	5927.4	6029.5	6208.2	6330.8	6371.6	6392.0	6376.7
15°	5850.8	6126.5	6213.3	6060.2	6172.5	6392.0	6453.3	6381.8	6279.7	6233.8	6259.3
17.5°	6162.3	6392.0	6341.0	6238.9	6494.1	6524.8	6325.7	6095.9	5932.5	5871.3	5912.1
20°	6489.0	6688.1	6453.3	6499.2	6657.5	6330.8	5953.0	5656.8	5513.9	5488.4	5529.2
22.5°	6836.2	6963.8	6565.6	6800.5	6565.6	5901.9	5447.5	5294.4	5258.6	5299.5	5335.2
25°	7229.3	7214.0	6759.6	6892.4	6223.5	5376.0	5105.5	5095.2	5095.2	5120.8	5171.8
27.5°	7673.5	7433.5	6953.6	6769.8	5631.3	4942.1	4891.0	4896.1	4880.8	4885.9	4911.4
30°	8189.1	7729.7	7168.1	6366.5	4967.6	4615.3	4594.9	4579.6	4543.9	4533.6	4543.9
32.5°	8837.5	8041.1	7387.6	5702.8	4385.6	4278.4	4268.2	4186.5	4099.7	4089.5	4125.2
35°	9659.5	8607.8	7499.9	4870.6	3905.7	3900.6	3864.8	3737.2	3624.9	3624.9	3599.3
37.5°	10598.9	9337.9	7545.9	4058.8	3507.4	3533.0	3430.9	3267.5	3180.7	3129.6	3145.0
40°	11558.7	10170.1	7540.8	3349.2	3160.3	3165.4	3088.8	2889.7	2675.3	2547.6	2578.3
42.5°	12482.8	10925.7	7408.0	2971.4	2879.5	2864.2	2802.9	2532.3	2353.6	2251.5	2256.6
45°	13223.1	11706.8	7203.8	2746.7	2624.2	2649.7	2511.9	2348.5	2185.1	2093.2	2088.1
47.5°	13963.4	12299.0	6877.0	2608.9	2435.3	2389.4	2333.2	2220.9	2098.3	1996.2	2001.3
50°	14637.3	12804.5	6570.7	2517.0	2261.7	2144.3	2154.5	2088.1	1980.9	1889.0	1883.9
52.5°	15112.1	13136.3	6402.2	2465.9	2052.4	1924.8	1960.5	1924.8	1822.6	1756.3	1751.2
55°	15586.9	13391.6	6458.4	2399.6	1822.6	1720.5	1781.8	1771.6	1715.4	1695.0	1700.1
57.5°	15969.9	13585.6	6657.5	2277.0	1603.1	1541.8	1644.0	1613.3	1572.5	1577.6	1577.6
60°	16342.6	13835.8	6892.4	1996.2	1414.2	1419.3	1516.3	1460.2	1434.6	1480.6	1485.7
62.5°	16730.6	14106.4	6698.4	1587.8	1250.8	1286.6	1398.9	1352.9	1363.2	1429.5	1449.9
65°	16684.6	14080.8	5457.7	1301.9	1107.9	1179.4	1347.8	1332.5	1337.6	1363.2	1373.4
67.5°	15745.2	13182.3	3752.5	1107.9	1005.8	1092.6	1307.0	1245.7	1250.8	1235.5	1240.6
68°	15428.7	12865.7	3308.3	1077.3	985.4	1072.1	1286.6	1230.4	1235.5	1220.2	1215.1
70°	13703.0	11017.6	2093.2	949.6	913.9	1016.0	1184.5	1164.0	1158.9	1148.7	1148.7
72.5°	10445.8	8133.0	1102.8	822.0	832.2	929.2	1056.8	1097.7	1072.1	1077.3	1107.9
75°	6917.9	4891.0	765.8	704.6	730.1	796.5	939.4	1021.1	995.6	1010.9	995.6
77.5°	3660.6	2634.4	612.7	597.3	597.3	643.3	776.0	903.7	903.7	893.5	878.1
80°	1199.8	929.2	490.1	469.7	479.9	505.4	622.9	740.3	755.6	735.2	725.0
82.5°	403.3	428.9	367.6	342.1	352.3	372.7	469.7	566.7	571.8	531.0	520.8
85°	250.2	285.9	229.7	224.6	224.6	229.7	285.9	311.4	285.9	255.3	265.5
87.5°	117.4	143.0	107.2	91.9	76.6	66.4	51.1	20.4	20.4	10.2	10.2
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)