

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: P1211447

Luminaire Tested: **ARCH4-280-722-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211447
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: ARCH4-280-722-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1085mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33800 lumens
Efficiency: N/A
Efficacy: 120.8 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): 279.7
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



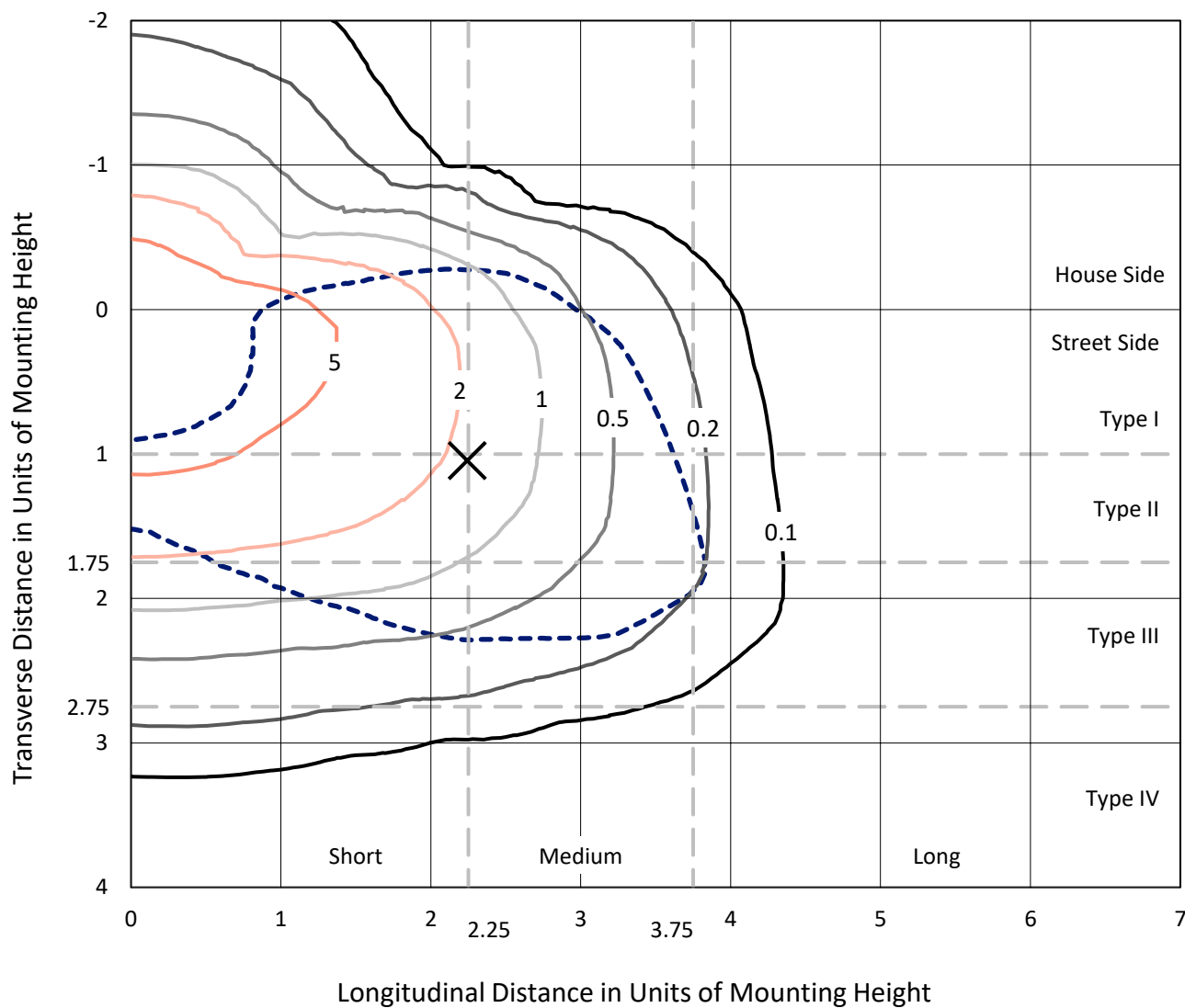
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Iso-Footcandle Lines of Horizontal Illumination

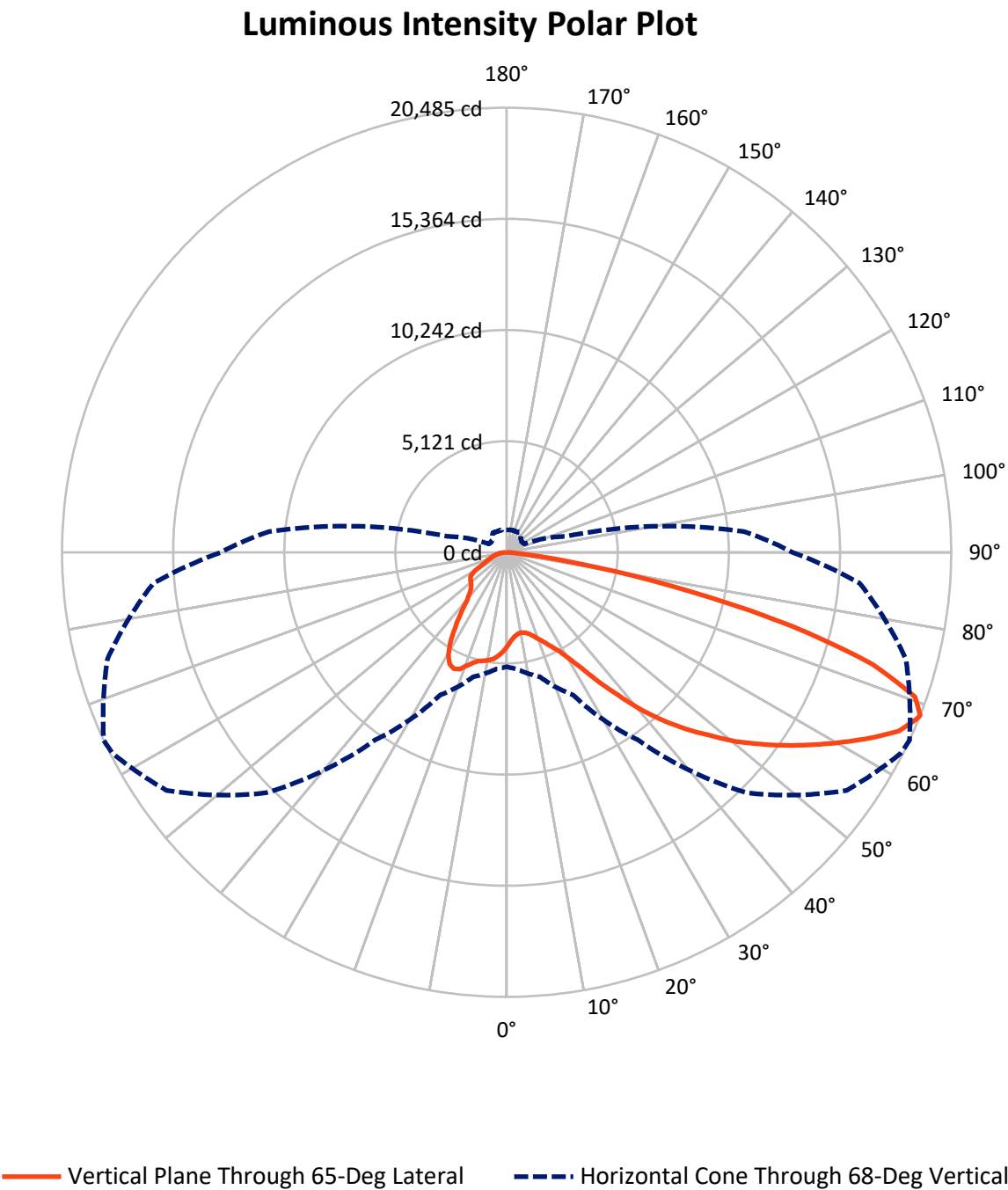
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8286.8	0.0	8286.8
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	25513.2	0.0	25513.2
	% Fixture	75.5	0.0	75.5
Total	Lumens	33800.0	0.0	33800.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.8	1.2
10°-20°	1344.0	4.0
20°-30°	2432.6	7.2
30°-40°	3826.7	11.3
40°-50°	5699.5	16.9
50°-60°	7476.6	22.1
60°-70°	8176.1	24.2
70°-80°	4045.8	12.0
80°-90°	385.9	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°	33800.0	100.0
0°-180°	33800.0	100.0

Coefficient of Utilization



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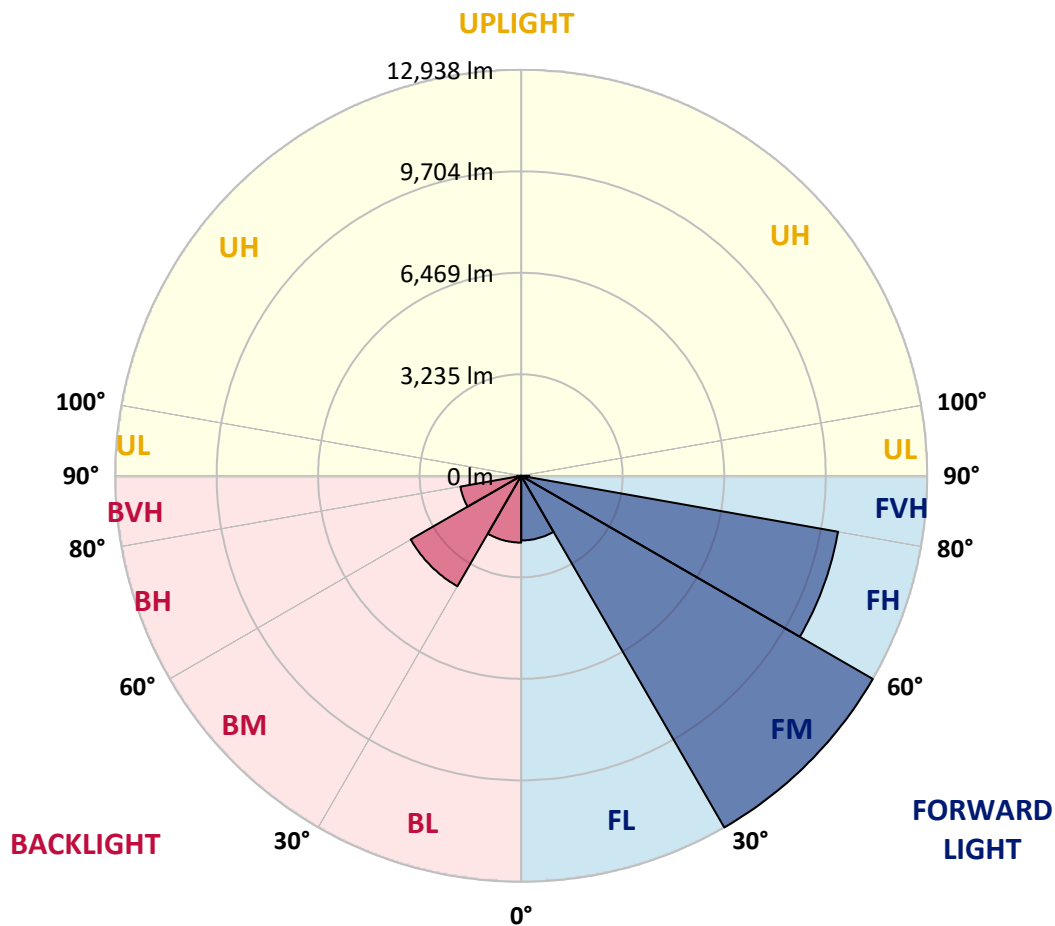
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2060.5	6.1			
FM	(30°-60°)	12938.2	38.3			
FH	(60°-80°)	10255.0	30.3			G4/12000
FVH	(80°-90°)	259.6	0.8			G3/500
BL	(0°-30°)	2128.9	6.3	B3/2500		
BM	(30°-60°)	4064.6	12.0	B3/5000		
BH	(60°-80°)	1966.9	5.8	B3/2500		G3/2500
BVH	(80°-90°)	126.4	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°	4319.2	4319.2	4319.2	4319.2	4319.2	4319.2	4319.2	4319.2	4319.2	4319.2	4319.2
2.5°	3770.1	3761.3	3783.1	3804.9	3852.9	3909.5	3988.0	4053.4	4062.1	4184.1	4280.0
5°	3547.8	3534.7	3556.5	3582.7	3604.4	3674.2	3757.0	3852.9	3892.1	4070.8	4275.6
7.5°	3569.6	3565.2	3573.9	3565.2	3565.2	3595.7	3652.4	3748.3	3791.9	4005.4	4297.4
10°	3696.0	3704.7	3709.0	3682.9	3656.7	3643.7	3661.1	3726.5	3757.0	4009.8	4393.3
12.5°	3905.2	3918.3	3922.6	3874.7	3839.8	3783.1	3752.6	3778.8	3800.6	4053.4	4528.4
15°	4188.5	4197.2	4166.7	4136.2	4049.0	3979.3	3905.2	3883.4	3892.1	4144.9	4681.0
17.5°	4519.7	4506.6	4506.6	4432.5	4319.2	4210.3	4088.2	4070.8	4070.8	4293.1	4898.9
20°	4881.5	4894.5	4855.3	4755.1	4641.8	4471.8	4349.7	4271.3	4280.0	4463.1	5164.8
22.5°	5404.5	5426.3	5321.7	5177.8	5003.5	4807.4	4633.0	4506.6	4511.0	4685.3	5439.4
25°	5966.7	5975.4	5910.1	5718.3	5482.9	5204.0	4973.0	4811.7	4807.4	4933.8	5792.4
27.5°	6542.0	6581.3	6450.5	6267.5	6049.5	5700.9	5395.8	5177.8	5143.0	5313.0	6232.6
30°	7134.8	7182.7	7056.3	6877.6	6607.4	6311.0	5949.3	5696.5	5674.7	5901.3	6821.0
32.5°	7731.9	7745.0	7644.7	7496.5	7252.5	6973.5	6681.5	6402.6	6380.8	6751.2	7583.7
35°	8220.0	8259.3	8189.5	8154.7	7976.0	7718.8	7435.5	7274.3	7330.9	7806.0	8573.1
37.5°	8808.4	8847.7	8769.2	8760.5	8703.8	8481.6	8285.4	8298.5	8355.2	9000.2	9614.8
40°	9658.3	9701.9	9501.4	9414.3	9414.3	9196.3	9131.0	9440.4	9514.5	10177.0	10700.0
42.5°	10377.5	10447.2	10329.5	10272.9	10102.9	9950.4	10028.8	10464.7	10591.0	11301.5	11645.8
45°	10726.2	10778.5	10917.9	11083.6	10917.9	10652.1	10948.4	11440.9	11619.6	12338.8	12591.6
47.5°	10913.6	10961.5	11122.8	11567.3	11680.7	11458.4	11876.8	12491.3	12613.4	13367.4	13493.8
50°	10939.7	11092.3	11301.5	11746.0	12264.7	12295.2	12809.5	13559.2	13703.0	14378.5	14287.0
52.5°	10726.2	10787.2	11218.7	11968.3	12543.6	13066.6	13825.0	14583.4	14688.0	15328.7	14988.7
55°	10377.5	10464.7	10896.1	11916.0	12813.9	13798.9	14858.0	15590.2	15707.9	16252.7	15638.1
57.5°	10063.7	10107.3	10569.3	11763.5	13084.1	14531.1	15777.6	16640.6	16719.0	17063.4	16117.6
60°	9715.0	9762.9	10224.9	11436.6	13284.6	15084.6	16736.5	17699.7	17769.4	17917.6	16675.4
62.5°	8812.8	8939.2	9518.9	10896.1	13232.3	15716.6	17760.7	18745.7	18832.9	18671.6	17115.7
65°	7156.6	7335.3	8045.7	9671.4	12744.1	16126.3	18597.5	19708.9	19857.1	19238.2	17233.3
67.5°	5557.0	5683.4	6254.4	7675.2	11031.2	15921.4	19138.0	20371.4	20415.0	19146.7	16579.6
68°	5269.4	5395.8	5940.6	7256.8	10556.2	15677.4	19124.9	20388.9	20484.7	19046.4	16326.8
70°	4031.6	4175.4	4694.1	5748.8	8507.7	14125.8	18327.3	19970.4	19957.4	17834.8	14757.7
72.5°	2519.2	2602.0	2959.4	3626.2	5626.8	10748.0	15555.3	17612.5	17647.4	14539.8	11318.9
75°	1599.6	1599.6	1582.1	1756.5	2885.3	6123.6	11563.0	13559.2	13585.3	10181.4	7134.8
77.5°	1390.3	1351.1	1163.7	985.0	1150.6	2379.7	6842.8	8756.1	8612.3	5482.9	3386.5
80°	1172.4	1107.0	954.5	793.2	740.9	745.3	2628.1	4445.6	4253.9	1974.4	1124.5
82.5°	845.5	788.9	719.1	623.3	571.0	444.6	549.2	1285.7	1255.2	571.0	366.1
85°	457.6	414.1	405.3	409.7	344.3	274.6	231.0	283.3	283.3	248.4	209.2
87.5°	161.3	117.7	139.5	156.9	135.1	113.3	91.5	109.0	113.3	109.0	100.2
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°	4319.2	4319.2	4319.2	4319.2	4319.2	4319.2	4319.2	4319.2	4319.2	4319.2	4319.2
2.5°	4336.7	4380.2	4484.9	4576.4	4641.8	4698.4	4728.9	4742.0	4772.5	4776.9	4768.1
5°	4371.5	4484.9	4641.8	4776.9	4851.0	4881.5	4890.2	4894.5	4881.5	4890.2	4881.5
7.5°	4463.1	4606.9	4829.2	4946.8	4959.9	4912.0	4916.3	4898.9	4916.3	4933.8	4933.8
10°	4602.5	4785.6	4994.8	5038.4	4981.7	4955.6	5007.9	5112.5	5147.3	5195.3	5195.3
12.5°	4785.6	5003.5	5151.7	5112.5	5060.2	5147.3	5299.9	5404.5	5439.4	5456.8	5443.7
15°	4994.8	5230.1	5304.2	5173.5	5269.4	5456.8	5509.1	5448.1	5360.9	5321.7	5343.5
17.5°	5260.7	5456.8	5413.2	5326.0	5544.0	5570.1	5400.1	5204.0	5064.5	5012.2	5047.1
20°	5539.6	5709.6	5509.1	5548.3	5683.4	5404.5	5082.0	4829.2	4707.1	4685.3	4720.2
22.5°	5836.0	5944.9	5605.0	5805.5	5605.0	5038.4	4650.5	4519.7	4489.2	4524.1	4554.6
25°	6171.6	6158.5	5770.6	5883.9	5313.0	4589.5	4358.5	4349.7	4349.7	4371.5	4415.1
27.5°	6550.8	6345.9	5936.2	5779.3	4807.4	4219.0	4175.4	4179.8	4166.7	4171.0	4192.8
30°	6991.0	6598.7	6119.3	5435.0	4240.8	3940.0	3922.6	3909.5	3879.0	3870.3	3879.0
32.5°	7544.5	6864.6	6306.7	4868.4	3743.9	3652.4	3643.7	3573.9	3499.8	3491.1	3521.6
35°	8246.2	7348.4	6402.6	4158.0	3334.2	3329.9	3299.4	3190.4	3094.5	3094.5	3072.7
37.5°	9048.2	7971.6	6441.8	3465.0	2994.3	3016.1	2928.9	2789.4	2715.3	2671.7	2684.8
40°	9867.5	8682.0	6437.4	2859.1	2697.9	2702.2	2636.9	2466.9	2283.8	2174.9	2201.0
42.5°	10656.4	9327.1	6324.1	2536.6	2458.2	2445.1	2392.8	2161.8	2009.2	1922.1	1926.4
45°	11288.4	9993.9	6149.8	2344.8	2240.2	2262.0	2144.4	2004.9	1865.4	1787.0	1782.6
47.5°	11920.4	10499.5	5870.8	2227.2	2079.0	2039.8	1991.8	1895.9	1791.3	1704.2	1708.5
50°	12495.7	10931.0	5609.3	2148.7	1930.8	1830.6	1839.3	1782.6	1691.1	1612.6	1608.3
52.5°	12901.0	11214.3	5465.5	2105.1	1752.1	1643.1	1673.6	1643.1	1556.0	1499.3	1495.0
55°	13306.4	11432.2	5513.4	2048.5	1556.0	1468.8	1521.1	1512.4	1464.4	1447.0	1451.4
57.5°	13633.2	11597.8	5683.4	1943.9	1368.6	1316.3	1403.4	1377.3	1342.4	1346.8	1346.8
60°	13951.4	11811.4	5883.9	1704.2	1207.3	1211.7	1294.5	1246.5	1224.7	1264.0	1268.3
62.5°	14282.7	12042.4	5718.3	1355.5	1067.8	1098.3	1194.2	1155.0	1163.7	1220.4	1237.8
65°	14243.4	12020.6	4659.2	1111.4	945.8	1006.8	1150.6	1137.6	1141.9	1163.7	1172.4
67.5°	13441.5	11253.5	3203.5	945.8	858.6	932.7	1115.8	1063.5	1067.8	1054.7	1059.1
68°	13171.3	10983.3	2824.3	919.6	841.2	915.3	1098.3	1050.4	1054.7	1041.7	1037.3
70°	11698.1	9405.5	1787.0	810.7	780.2	867.3	1011.2	993.7	989.4	980.7	980.7
72.5°	8917.4	6943.0	941.4	701.7	710.4	793.2	902.2	937.1	915.3	919.6	945.8
75°	5905.7	4175.4	653.8	601.5	623.3	679.9	802.0	871.7	849.9	863.0	849.9
77.5°	3125.0	2249.0	523.0	509.9	509.9	549.2	662.5	771.4	771.4	762.7	749.7
80°	1024.2	793.2	418.4	401.0	409.7	431.5	531.7	632.0	645.1	627.6	618.9
82.5°	344.3	366.1	313.8	292.0	300.7	318.2	401.0	483.8	488.1	453.3	444.6
85°	213.6	244.1	196.1	191.8	191.8	196.1	244.1	265.9	244.1	217.9	226.6
87.5°	100.2	122.0	91.5	78.5	65.4	56.7	43.6	17.4	17.4	8.7	8.7
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)