

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: P841614

Luminaire Tested: **ARCH4-200-740-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-200-740-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32927 lumens
Efficiency: N/A
Efficacy: 161.6 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): 203.7
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



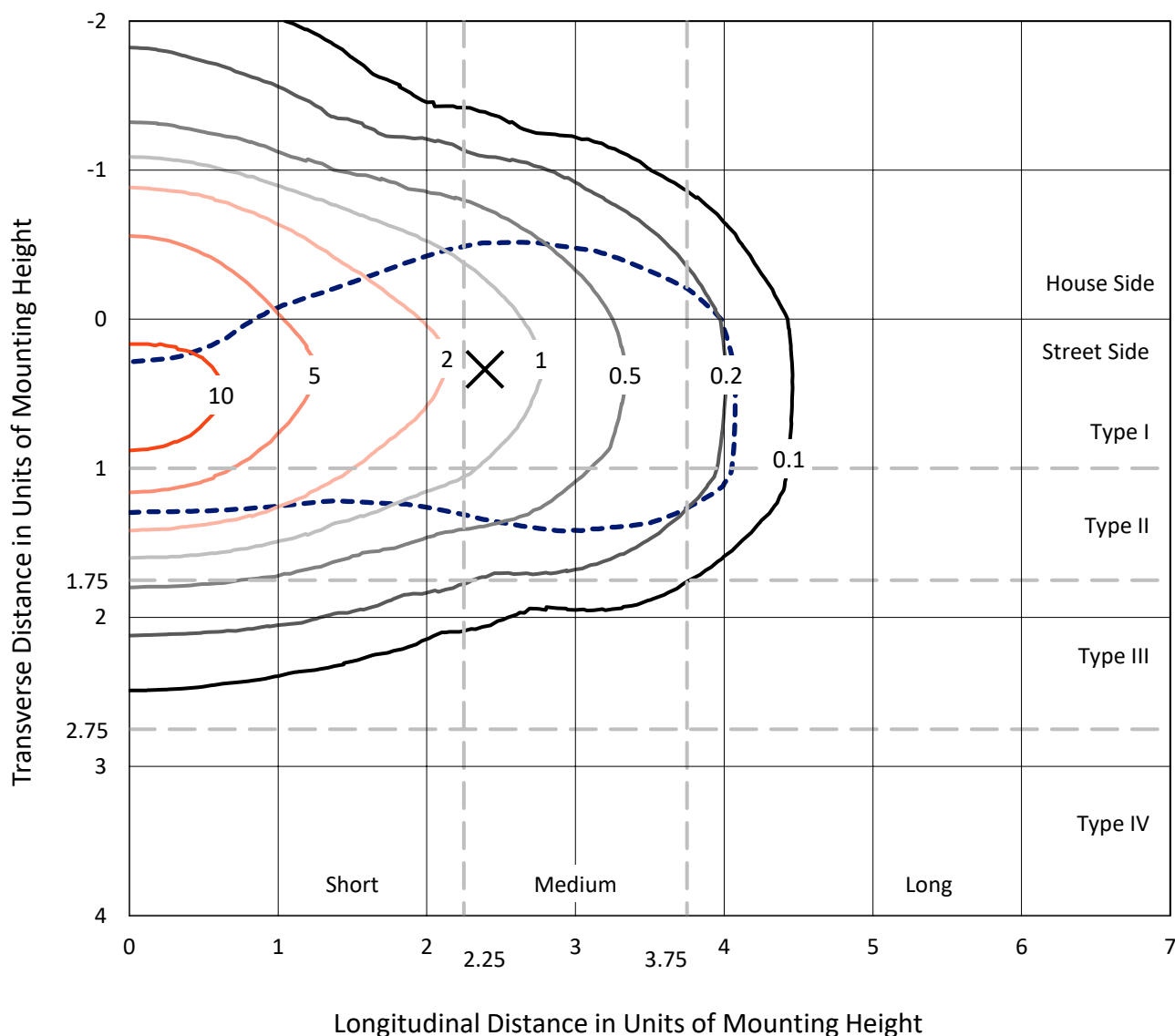
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

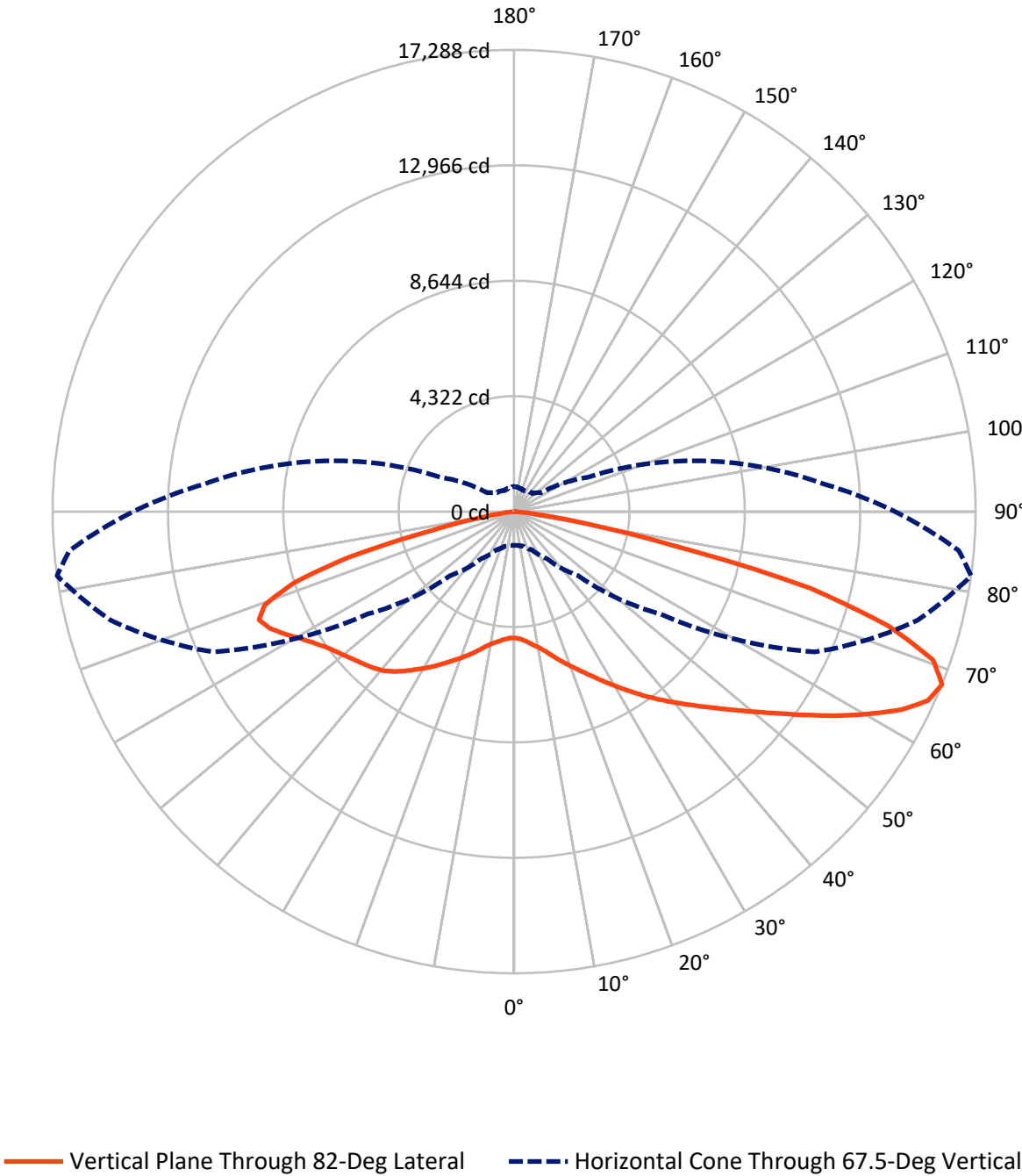
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 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	10027.6	0.0	10027.6
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	22899.4	0.0	22899.4
	% Fixture	69.5	0.0	69.5
Total	Lumens	32927.0	0.0	32927.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.2	1.5
10°-20°	1762.0	5.4
20°-30°	3541.1	10.8
30°-40°	5562.6	16.9
40°-50°	6776.4	20.6
50°-60°	6402.9	19.4
60°-70°	5287.3	16.1
70°-80°	2879.2	8.7
80°-90°	226.4	0.7
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°	32927.0	100.0
0°-180°	32927.0	100.0

Coefficient of Utilization



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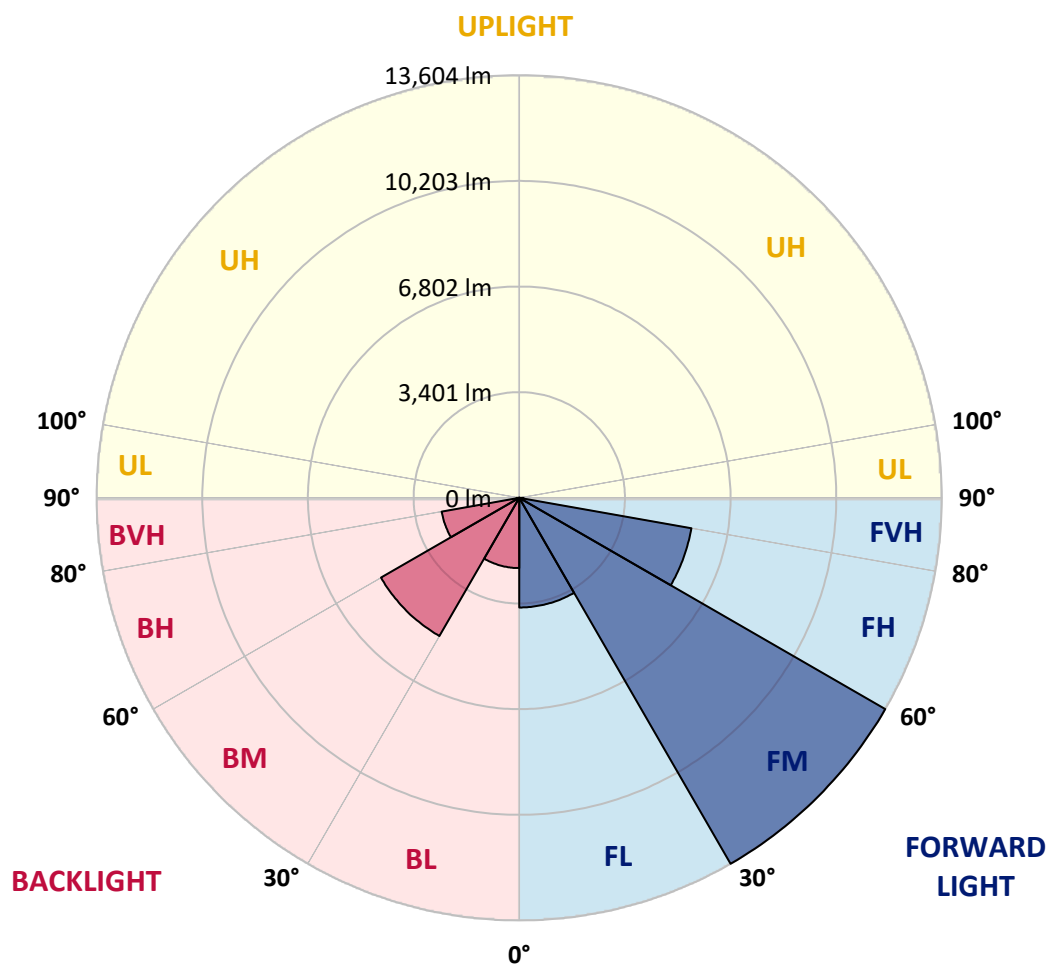
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3531.0	10.7			
FM	(30°-60°)	13603.5	41.3			
FH	(60°-80°)	5628.4	17.1			G3/7500
FVH	(80°-90°)	136.5	0.4			G2/225
BL	(0°-30°)	2261.3	6.9	B3/2500		
BM	(30°-60°)	5138.4	15.6	B4/8500		
BH	(60°-80°)	2538.0	7.7	B4/5000		G4/5000
BVH	(80°-90°)	89.9	0.3			G1/100
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°	82°	85°
0°	4733.2	4733.2	4733.2	4733.2	4733.2	4733.2	4733.2	4733.2	4733.2	4733.2	4733.2
2.5°	4948.4	4948.4	4986.6	4986.6	4953.2	4900.6	4886.2	4828.9	4776.3	4776.3	4781.0
5°	5421.7	5416.9	5445.6	5407.4	5326.1	5220.9	5149.2	5024.9	4919.7	4886.2	4881.5
7.5°	6000.2	5995.4	6009.8	5947.6	5794.6	5622.5	5479.1	5278.3	5106.2	5034.4	5015.3
10°	6645.7	6640.9	6626.5	6521.4	6315.8	6048.0	5832.9	5555.6	5297.4	5182.7	5158.8
12.5°	7386.7	7377.2	7343.7	7190.7	6908.6	6564.4	6253.6	5895.0	5550.8	5393.0	5340.4
15°	8213.8	8199.5	8137.3	7950.9	7573.2	7138.1	6736.5	6277.5	5856.8	5651.2	5579.5
17.5°	9084.0	9084.0	8988.4	8711.1	8290.3	7750.1	7252.9	6669.6	6177.1	5923.7	5837.7
20°	9968.5	9963.7	9844.2	9509.5	9012.3	8390.7	7759.6	7119.0	6507.0	6201.0	6095.8
22.5°	10900.8	10891.2	10743.0	10360.5	9767.7	9064.9	8328.6	7563.6	6870.4	6502.2	6368.4
25°	11971.7	11957.4	11775.7	11307.2	10604.4	9810.7	8969.2	8084.8	7286.3	6836.9	6679.1
27.5°	13109.6	13090.5	12875.4	12330.3	11560.6	10604.4	9676.8	8687.2	7745.3	7209.8	7032.9
30°	14123.2	14108.9	13874.6	13315.2	12430.7	11393.2	10351.0	9289.6	8228.2	7606.7	7386.7
32.5°	14888.2	14888.2	14677.8	14128.0	13210.0	12148.6	11029.9	9858.5	8730.2	8032.2	7774.0
35°	15352.0	15366.3	15184.6	14744.8	13879.4	12861.0	11732.7	10527.9	9265.7	8486.4	8209.1
37.5°	15418.9	15466.7	15361.5	15065.1	14343.1	13453.9	12421.2	11173.3	9820.3	8945.3	8634.6
40°	15108.1	15141.6	15146.4	15031.6	14534.4	13879.4	13028.4	11857.0	10408.3	9428.2	9069.7
42.5°	14486.6	14510.5	14553.5	14587.0	14395.7	14065.8	13492.1	12492.9	11034.7	9920.7	9499.9
45°	13683.4	13678.6	13750.3	13893.7	13884.2	13960.7	13750.3	13071.4	11684.9	10480.1	9978.1
47.5°	12483.3	12459.4	12712.8	13037.9	13200.5	13559.1	13755.1	13525.6	12392.5	11096.8	10523.1
50°	10604.4	10580.5	11135.1	11900.0	12378.1	12923.2	13492.1	13798.1	13133.5	11790.1	11115.9
52.5°	8319.0	8295.1	8997.9	10336.6	11378.9	12172.6	12961.4	13860.3	13836.4	12564.6	11785.3
55°	6186.7	6167.6	6851.2	8299.9	9987.6	11302.4	12311.2	13697.7	14496.1	13453.9	12598.1
57.5°	4360.3	4350.8	4943.6	6143.6	8199.5	10241.0	11684.9	13382.2	15103.3	14419.6	13516.0
60°	3059.9	3045.5	3475.8	4403.3	6201.0	8639.4	11063.3	12961.4	15557.5	15371.1	14491.4
62.5°	2060.6	2051.1	2357.1	3131.6	4403.3	6650.4	10121.5	12679.3	15815.7	16327.3	15476.3
65°	1563.4	1558.6	1697.3	2122.8	3117.2	4776.3	8625.0	12645.9	15849.2	17044.4	16312.9
67.5°	1262.2	1267.0	1343.5	1587.3	2156.3	3394.5	6688.7	12435.5	15672.3	17288.3	16719.3
70°	1032.7	1032.7	1066.2	1228.7	1592.1	2290.1	4671.1	11479.3	15179.8	16652.4	16236.4
72.5°	788.9	793.7	898.8	994.5	1200.0	1606.4	2992.9	9499.9	14018.0	14682.6	14367.1
75°	626.3	621.5	683.7	817.6	932.3	1147.5	1835.9	6813.0	11928.7	11474.5	11273.7
77.5°	449.4	444.6	492.4	607.2	707.6	812.8	1094.9	3437.6	6487.9	5962.0	5813.8
80°	306.0	296.4	339.5	420.7	468.5	478.1	535.5	1319.6	2830.4	2667.8	2634.4
82.5°	157.8	157.8	181.7	239.1	243.8	248.6	239.1	425.5	937.1	874.9	836.7
85°	62.2	62.2	66.9	81.3	81.3	86.1	86.1	110.0	100.4	95.6	90.8
87.5°	4.8	4.8	9.6	9.6	14.3	14.3	14.3	19.1	23.9	23.9	23.9
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°	4733.2	4733.2	4733.2	4733.2	4733.2	4733.2	4733.2	4733.2	4733.2	4733.2	4733.2
2.5°	4771.5	4752.4	4690.2	4675.9	4666.3	4652.0	4656.7	4623.3	4608.9	4613.7	4594.6
5°	4857.5	4824.1	4747.6	4714.1	4704.6	4690.2	4704.6	4680.6	4656.7	4666.3	4656.7
7.5°	4977.1	4929.3	4833.6	4800.2	4795.4	4781.0	4800.2	4781.0	4761.9	4771.5	4752.4
10°	5101.4	5039.2	4934.0	4900.6	4900.6	4895.8	4914.9	4886.2	4867.1	4871.9	4862.3
12.5°	5283.1	5201.8	5087.0	5058.4	5044.0	5058.4	5063.1	5024.9	4991.4	4996.2	4981.9
15°	5503.0	5412.1	5287.8	5244.8	5235.2	5230.5	5211.3	5163.5	5120.5	5115.7	5101.4
17.5°	5742.0	5627.3	5479.1	5436.1	5393.0	5378.7	5330.9	5268.7	5201.8	5201.8	5182.7
20°	5971.5	5842.4	5665.5	5603.4	5541.2	5483.9	5402.6	5302.2	5216.1	5201.8	5182.7
22.5°	6220.1	6067.2	5861.6	5770.7	5660.8	5546.0	5407.4	5273.5	5163.5	5139.6	5125.3
25°	6497.4	6306.2	6062.4	5928.5	5751.6	5574.7	5369.1	5197.0	5067.9	5029.7	5020.1
27.5°	6803.4	6573.9	6277.5	6081.5	5823.3	5546.0	5283.1	5077.5	4919.7	4871.9	4857.5
30°	7114.2	6841.7	6473.5	6186.7	5823.3	5455.2	5125.3	4886.2	4704.6	4637.6	4628.1
32.5°	7425.0	7119.0	6650.4	6244.1	5765.9	5302.2	4919.7	4637.6	4432.0	4350.8	4369.9
35°	7797.9	7425.0	6813.0	6268.0	5670.3	5115.7	4685.4	4355.5	4145.2	4073.5	4087.8
37.5°	8185.2	7731.0	6942.1	6248.8	5536.5	4905.4	4422.5	4102.1	3839.2	3714.9	3729.2
40°	8519.8	8008.3	7032.9	6181.9	5364.3	4666.3	4164.3	3743.6	3380.2	3260.7	3246.3
42.5°	8835.4	8213.8	7080.7	6081.5	5168.3	4389.0	3796.2	3255.9	2892.5	2744.3	2749.1
45°	9165.3	8414.6	7061.6	5947.6	4924.5	4063.9	3322.8	2777.8	2457.5	2323.6	2328.4
47.5°	9543.0	8629.8	7042.5	5804.2	4628.1	3643.2	2868.6	2357.1	2079.8	1984.1	1974.6
50°	9944.6	8868.8	7018.6	5627.3	4298.2	3174.6	2419.2	1965.0	1730.7	1668.6	1654.2
52.5°	10398.8	9127.0	7004.2	5416.9	3901.3	2677.4	2017.6	1620.8	1463.0	1420.0	1415.2
55°	10943.8	9428.2	7023.4	5163.5	3423.2	2208.8	1678.1	1396.1	1290.9	1267.0	1262.2
57.5°	11608.4	9815.5	7080.7	4867.1	2921.2	1802.5	1429.5	1257.4	1190.5	1171.4	1171.4
60°	12330.3	10255.4	7185.9	4532.4	2419.2	1486.9	1267.0	1147.5	1118.8	1142.7	1142.7
62.5°	13109.6	10771.7	7372.4	4126.0	1950.7	1257.4	1137.9	1056.6	1037.5	1085.3	1090.1
65°	13831.6	11273.7	7491.9	3638.4	1549.1	1090.1	1037.5	965.8	975.3	1023.1	1018.4
67.5°	14276.2	11689.7	7324.6	3026.4	1228.7	965.8	932.3	870.2	894.1	932.3	937.1
70°	14003.7	11455.4	6497.4	2285.3	961.0	841.5	817.6	779.3	798.4	846.2	865.4
72.5°	12669.8	10260.1	5053.6	1544.3	774.5	707.6	717.2	698.0	721.9	765.0	808.0
75°	10284.0	7754.9	3389.8	989.7	612.0	602.4	616.8	602.4	612.0	655.0	678.9
77.5°	5369.1	3781.8	1687.7	616.8	454.2	468.5	492.4	497.2	525.9	535.5	545.0
80°	2505.3	1702.1	702.8	344.2	301.2	329.9	377.7	382.5	392.0	406.4	411.2
82.5°	817.6	511.6	325.1	186.5	172.1	186.5	243.8	291.6	296.4	325.1	325.1
85°	86.1	52.6	71.7	76.5	66.9	81.3	110.0	105.2	47.8	28.7	28.7
87.5°	23.9	19.1	23.9	23.9	19.1	19.1	14.3	4.8	0.0	0.0	0.0
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)