

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: P399508

Luminaire Tested: **ARCH-L-PA3-150-750-U-T2R**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399508  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-150-750-U-T2R  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5000K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23977 lumens  
Efficiency: N/A  
Efficacy: 156.7 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

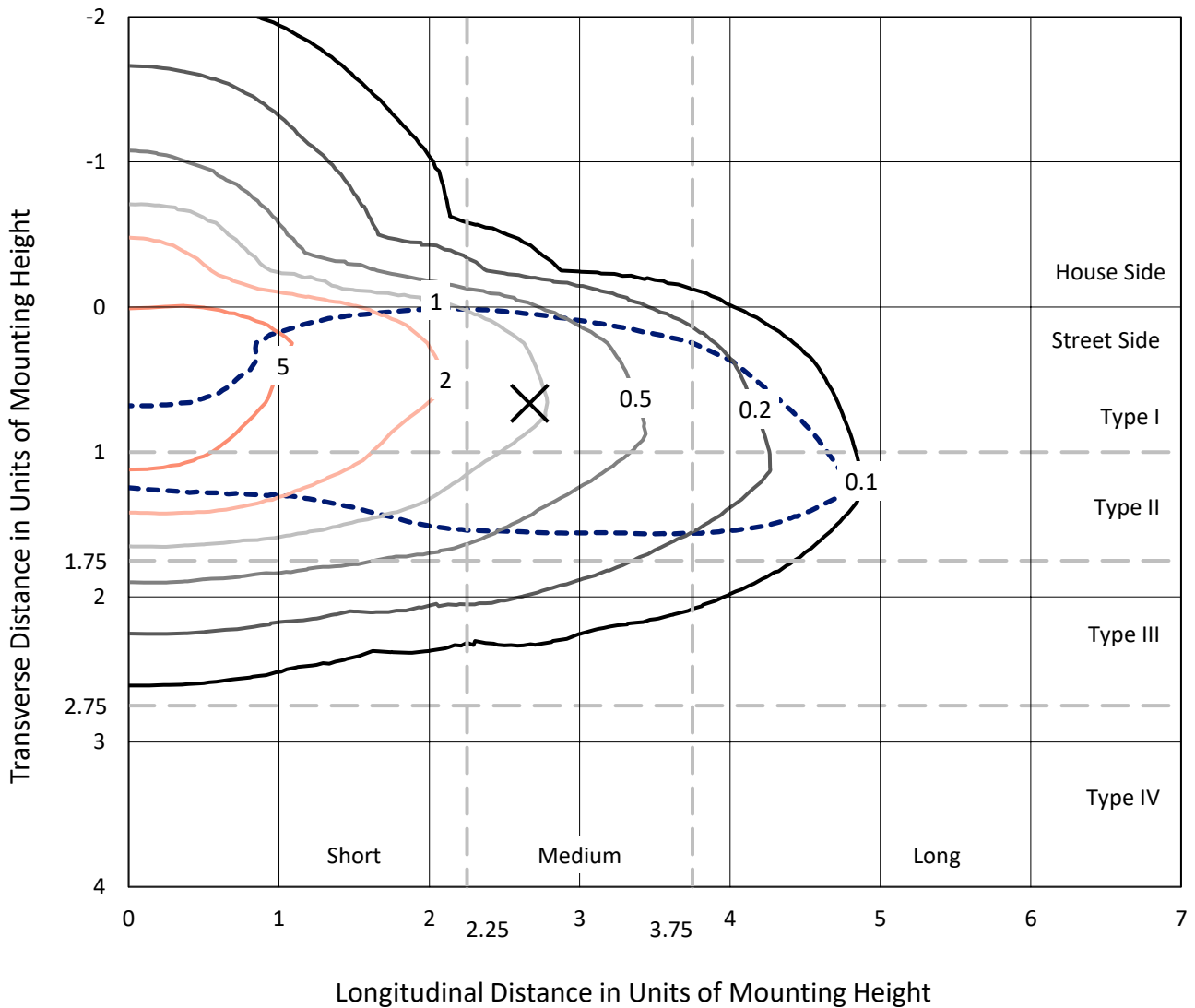
Input Watts (W): 153  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

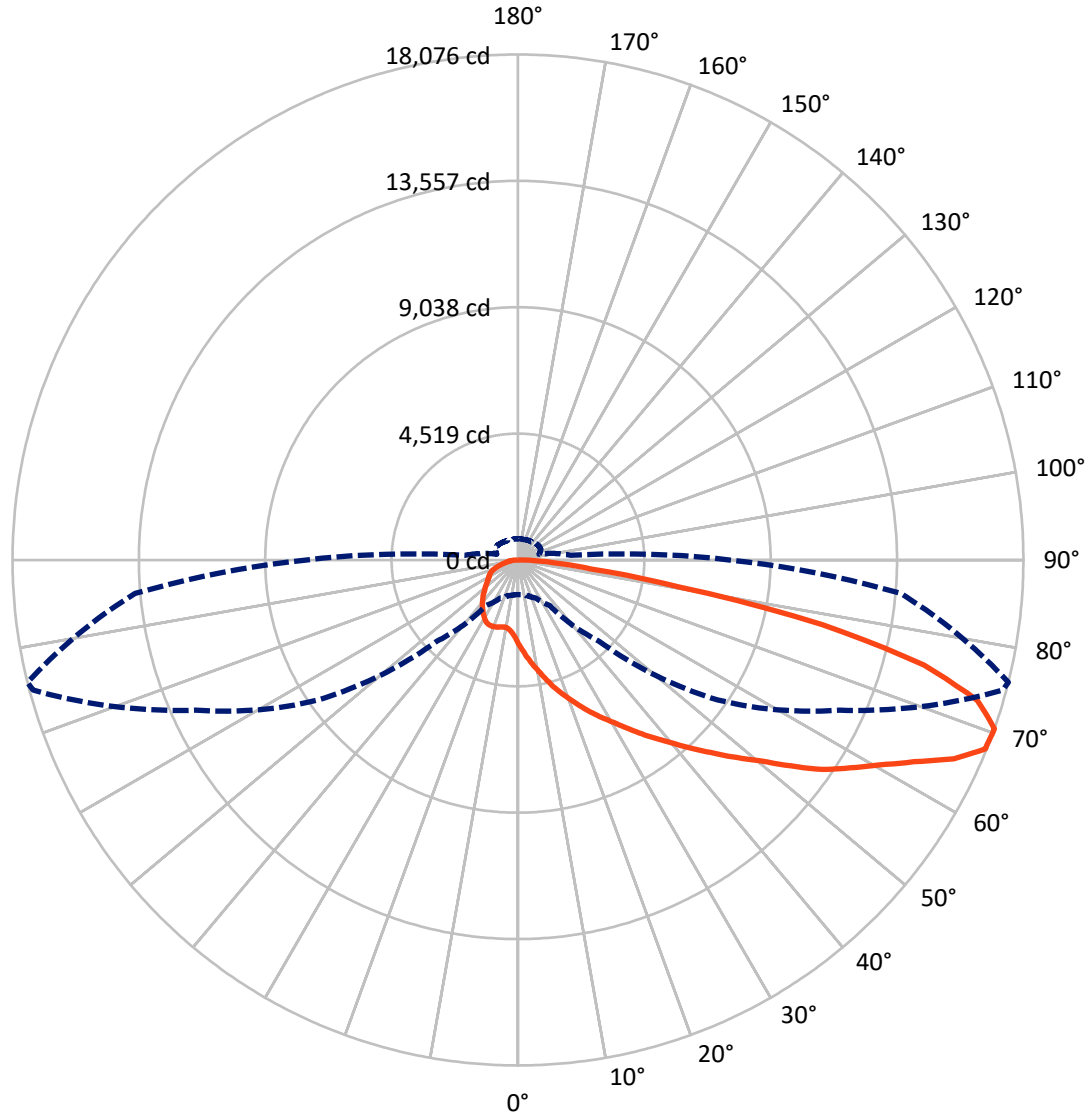
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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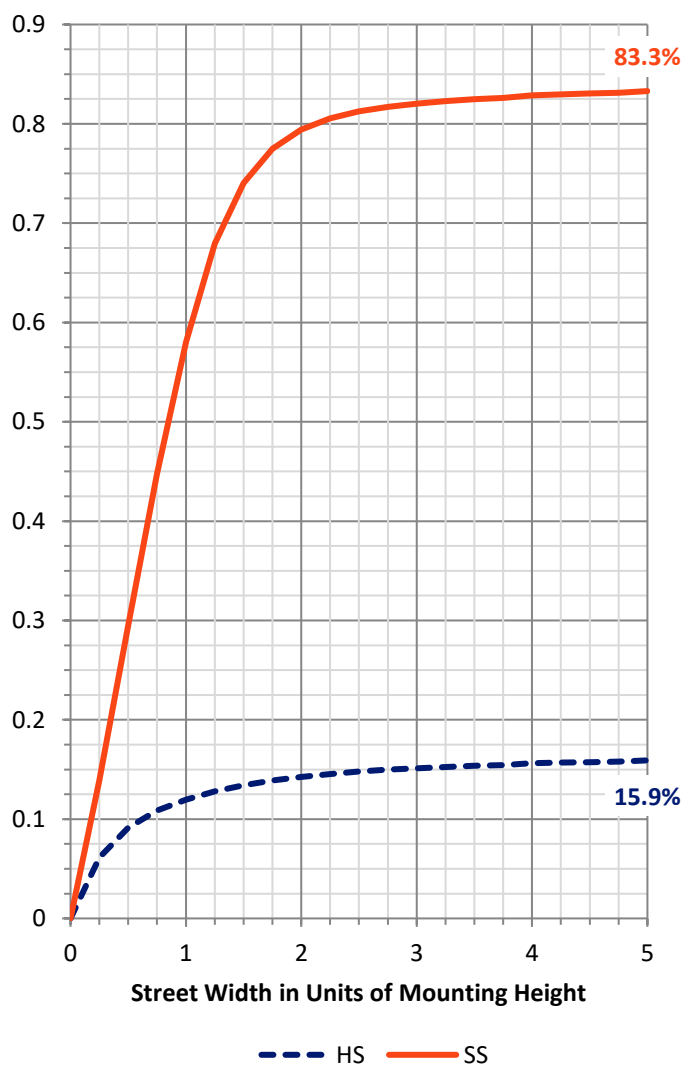
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3914.5	0.0	3914.5
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	20062.5	0.0	20062.5
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	23977.0	0.0	23977.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	311.6	1.3
10°-20°	1058.9	4.4
20°-30°	1894.4	7.9
30°-40°	3064.5	12.8
40°-50°	4433.3	18.5
50°-60°	5074.2	21.2
60°-70°	4667.7	19.5
70°-80°	2886.4	12.0
80°-90°	586.1	2.4
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°	23977.0	100.0
0°-180°	23977.0	100.0

**Coefficient of Utilization**



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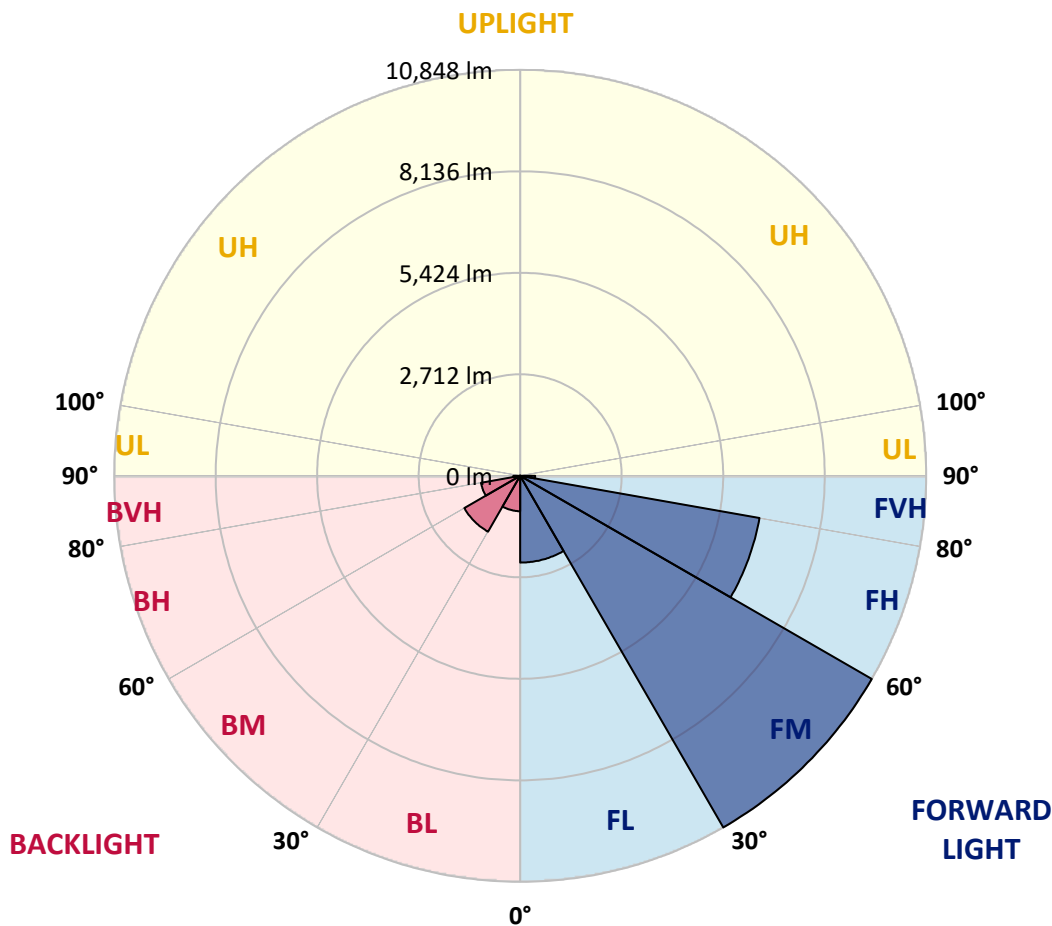
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2319.4	9.7			
FM (30°-60°)	10848.5	45.2			
FH (60°-80°)	6492.3	27.1			G3/7500
FVH (80°-90°)	402.4	1.7			G3/500
BL (0°-30°)	945.5	3.9	B2/1000		
BM (30°-60°)	1723.5	7.2	B2/2500		
BH (60°-80°)	1061.7	4.4	B3/2500		G3/2500
BVH (80°-90°)	183.8	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2998.4	2998.4	2998.4	2998.4	2998.4	2998.4	2998.4	2998.4	2998.4	2998.4	2998.4
2.5°	3821.3	3793.0	3789.8	3745.7	3704.7	3594.3	3515.5	3376.8	3238.0	3234.9	3096.2
5°	4417.2	4388.9	4373.1	4319.5	4250.1	4105.1	3963.2	3748.8	3512.4	3496.6	3234.9
7.5°	4820.8	4795.6	4764.1	4742.0	4675.8	4546.5	4373.1	4117.7	3793.0	3761.4	3395.7
10°	5092.0	5076.2	5069.9	5054.1	5013.1	4909.1	4742.0	4470.8	4073.6	4038.9	3566.0
12.5°	5208.6	5202.3	5230.7	5274.8	5290.6	5249.6	5088.8	4833.4	4382.6	4344.7	3770.9
15°	5073.0	5079.4	5151.9	5303.2	5464.0	5552.3	5457.7	5208.6	4732.5	4678.9	4010.5
17.5°	5010.0	5019.4	5069.9	5214.9	5441.9	5716.2	5760.4	5564.9	5069.9	4994.2	4262.7
20°	5120.3	5133.0	5170.8	5284.3	5441.9	5735.2	5965.3	5905.4	5401.0	5322.1	4505.5
22.5°	5401.0	5416.7	5413.6	5486.1	5593.3	5795.1	6078.8	6227.0	5747.8	5659.5	4757.8
25°	6000.0	5987.4	5880.2	5845.5	5873.9	6003.2	6230.2	6536.0	6110.4	6022.1	5022.6
27.5°	6813.5	6797.7	6602.2	6425.6	6268.0	6324.8	6444.6	6785.1	6479.2	6378.4	5274.8
30°	7683.7	7664.7	7437.7	7150.8	6800.8	6718.9	6703.1	7002.6	6851.3	6744.1	5542.8
32.5°	8531.8	8516.0	8273.3	7939.1	7456.7	7210.7	7059.4	7245.4	7273.8	7169.7	5836.1
35°	9304.3	9304.3	9096.2	8698.9	8153.4	7781.4	7532.3	7544.9	7759.3	7639.5	6170.3
37.5°	9991.6	9988.4	9761.4	9370.5	8847.1	8421.4	8112.5	7907.5	8222.8	8118.8	6520.2
40°	10537.1	10515.0	10347.9	10007.4	9480.8	9058.3	8746.2	8333.2	8739.9	8645.3	6892.3
42.5°	10934.3	10921.7	10808.2	10511.8	10010.5	9613.3	9398.9	8869.2	9326.3	9231.7	7327.4
45°	11088.8	11114.0	11114.0	10833.4	10436.2	10073.6	9979.0	9458.8	9960.1	9865.5	7794.0
47.5°	10839.7	10905.9	11041.5	11060.4	10710.5	10464.5	10496.1	10051.5	10612.7	10562.3	8304.8
50°	10061.0	10183.9	10480.3	11016.3	10820.8	10764.1	10937.5	10656.9	11312.7	11296.9	8925.9
52.5°	8052.6	8352.1	9275.9	10237.5	10745.1	10902.8	11375.7	11337.9	12214.4	12239.6	9736.2
55°	6176.6	6290.1	7358.9	8995.3	10281.7	10858.7	11669.0	12003.2	13191.8	13223.3	10480.3
57.5°	4994.2	5069.9	5653.2	7358.9	9225.4	10619.0	11899.1	12391.0	13942.2	14024.2	11142.4
60°	3956.9	4067.3	4458.2	5631.1	7746.7	10042.0	12059.9	12822.9	14749.4	14872.3	11933.8
62.5°	2941.7	2995.3	3364.2	4171.3	6132.4	9004.7	11974.8	13292.7	15739.4	15887.6	12886.0
65°	2093.5	2140.8	2402.5	2966.9	4533.9	7601.7	11479.8	13642.7	16981.6	17133.0	13844.5
67.5°	1567.0	1585.9	1734.1	2074.6	3055.2	5905.4	10477.2	13582.8	17889.7	18025.2	14229.1
70°	1239.1	1245.4	1317.9	1500.8	1986.3	4111.4	8721.0	12703.1	17955.9	18075.7	13743.6
72.5°	1027.9	1024.7	1065.7	1154.0	1384.1	2601.2	6460.3	11069.9	17104.6	17186.6	12387.8
75°	848.1	854.4	882.8	933.3	1056.2	1715.2	4187.1	8831.3	15089.9	15001.6	10395.2
77.5°	712.6	709.4	722.0	766.2	854.4	1232.8	2453.0	6381.5	11183.4	11139.3	6822.9
80°	573.8	580.1	599.1	636.9	718.9	939.6	1450.3	3982.1	6000.0	5839.2	3260.1
82.5°	384.7	444.6	482.4	526.5	621.1	693.6	920.7	2024.2	2683.1	2642.1	1478.7
85°	182.9	242.8	359.4	409.9	504.5	435.1	624.3	964.8	1343.1	1327.4	532.8
87.5°	37.8	37.8	192.3	230.2	312.1	186.0	346.8	419.3	649.5	608.5	217.6
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°	2998.4	2998.4	2998.4	2998.4	2998.4	2998.4	2998.4	2998.4	2998.4	2998.4	2998.4
2.5°	3014.2	2929.1	2758.8	2623.2	2484.5	2405.7	2307.9	2260.6	2251.2	2226.0	2244.9
5°	3067.8	2900.7	2579.1	2367.8	2226.0	2156.6	2121.9	2109.3	2106.2	2099.8	2099.8
7.5°	3140.3	2884.9	2465.6	2251.2	2159.7	2137.7	2147.1	2166.1	2169.2	2175.5	2172.4
10°	3228.6	2888.1	2402.5	2222.8	2178.7	2181.8	2213.3	2238.6	2251.2	2260.6	2257.5
12.5°	3351.6	2925.9	2393.1	2241.7	2222.8	2235.4	2266.9	2292.2	2304.8	2307.9	2307.9
15°	3512.4	3004.7	2415.1	2282.7	2266.9	2276.4	2295.3	2304.8	2307.9	2304.8	2304.8
17.5°	3688.9	3099.3	2446.7	2307.9	2282.7	2273.3	2266.9	2257.5	2238.6	2226.0	2226.0
20°	3859.2	3184.4	2462.4	2304.8	2260.6	2222.8	2185.0	2137.7	2106.2	2080.9	2080.9
22.5°	4029.4	3263.3	2462.4	2270.1	2200.7	2128.2	2049.4	1973.7	1926.4	1894.9	1894.9
25°	4209.1	3338.9	2443.5	2210.2	2106.2	2002.1	1894.9	1800.3	1753.0	1721.5	1715.2
27.5°	4360.5	3383.1	2393.1	2125.1	1989.5	1857.1	1734.1	1636.4	1601.7	1573.3	1573.3
30°	4521.3	3411.5	2298.5	2014.7	1857.1	1705.7	1579.6	1500.8	1463.0	1422.0	1418.8
32.5°	4701.0	3430.4	2191.3	1898.1	1721.5	1560.7	1453.5	1390.4	1308.5	1264.3	1258.0
35°	4909.1	3455.6	2077.8	1765.6	1585.9	1440.9	1377.8	1273.8	1195.0	1157.1	1154.0
37.5°	5129.8	3474.5	1954.8	1649.0	1463.0	1362.1	1299.0	1176.0	1106.7	1049.9	1043.6
40°	5363.1	3474.5	1828.7	1535.5	1365.2	1327.4	1207.6	1097.2	980.6	952.2	945.9
42.5°	5621.7	3468.2	1702.6	1425.1	1273.8	1248.6	1154.0	1037.3	977.4	952.2	945.9
45°	5896.0	3446.1	1582.8	1299.0	1179.2	1128.7	1056.2	1024.7	999.5	999.5	999.5
47.5°	6208.1	3427.2	1447.2	1185.5	1109.8	1053.1	999.5	980.6	977.4	986.9	996.3
50°	6608.5	3420.9	1333.7	1103.5	1056.2	990.0	983.7	967.9	971.1	971.1	971.1
52.5°	7094.1	3364.2	1226.5	1043.6	1002.6	923.8	942.7	958.5	964.8	961.6	958.5
55°	7450.3	3263.3	1135.1	1002.6	964.8	898.6	923.8	949.0	955.3	945.9	945.9
57.5°	7771.9	3121.4	1062.5	971.1	939.6	882.8	911.2	936.4	930.1	927.0	923.8
60°	8140.8	2985.8	1005.8	955.3	914.3	876.5	901.7	917.5	908.0	901.7	898.6
62.5°	8541.3	2853.4	964.8	955.3	895.4	873.4	892.3	898.6	879.7	873.4	873.4
65°	8727.3	2645.3	920.7	955.3	886.0	867.1	873.4	867.1	848.1	848.1	845.0
67.5°	8421.4	2301.6	863.9	942.7	898.6	857.6	845.0	835.5	813.5	813.5	807.1
70°	7576.5	1891.8	781.9	901.7	901.7	854.4	807.1	785.1	759.9	769.3	756.7
72.5°	6472.9	1500.8	681.0	832.4	882.8	851.3	766.2	731.5	709.4	718.9	699.9
75°	5243.3	1163.4	561.2	722.0	835.5	835.5	725.2	677.9	652.7	652.7	630.6
77.5°	3342.1	860.7	457.2	599.1	750.4	813.5	690.5	618.0	580.1	570.7	554.9
80°	1655.3	605.4	375.2	476.1	640.0	763.0	665.3	548.6	495.0	476.1	447.7
82.5°	879.7	419.3	299.5	372.0	510.8	687.3	633.7	472.9	406.7	378.4	346.8
85°	394.1	258.5	239.6	283.8	387.8	564.4	570.7	387.8	312.1	372.0	274.3
87.5°	145.0	116.7	116.7	145.0	223.9	236.5	403.6	249.1	198.6	135.6	107.2
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)