

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: P399634

Luminaire Tested: **ARCH-L-PA3-170-730-U-T2R**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399634  
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-PA3-170-730-U-T2R  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23952 lumens  
Efficiency: N/A  
Efficacy: 138.5 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

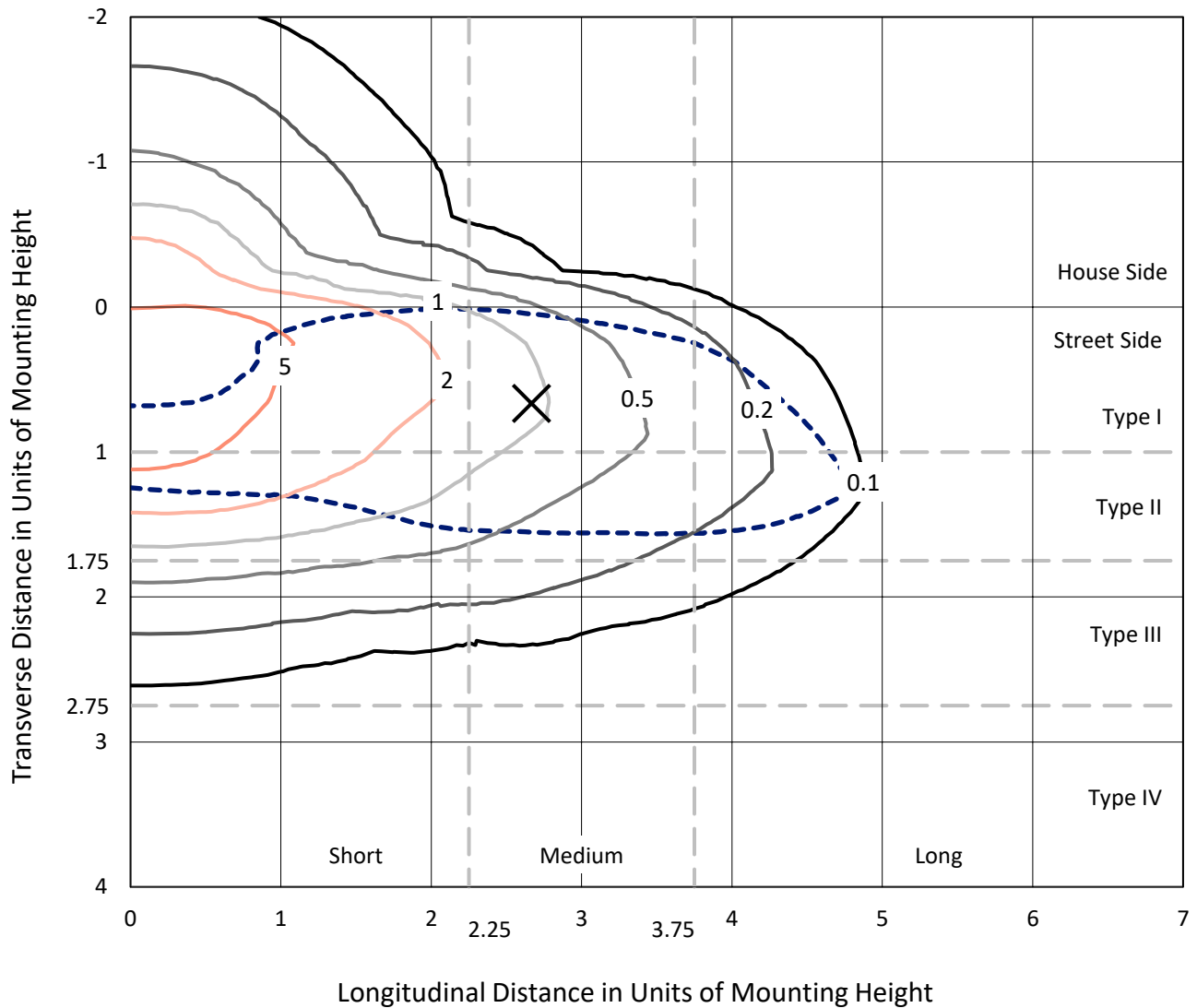
Input Watts (W): 173  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

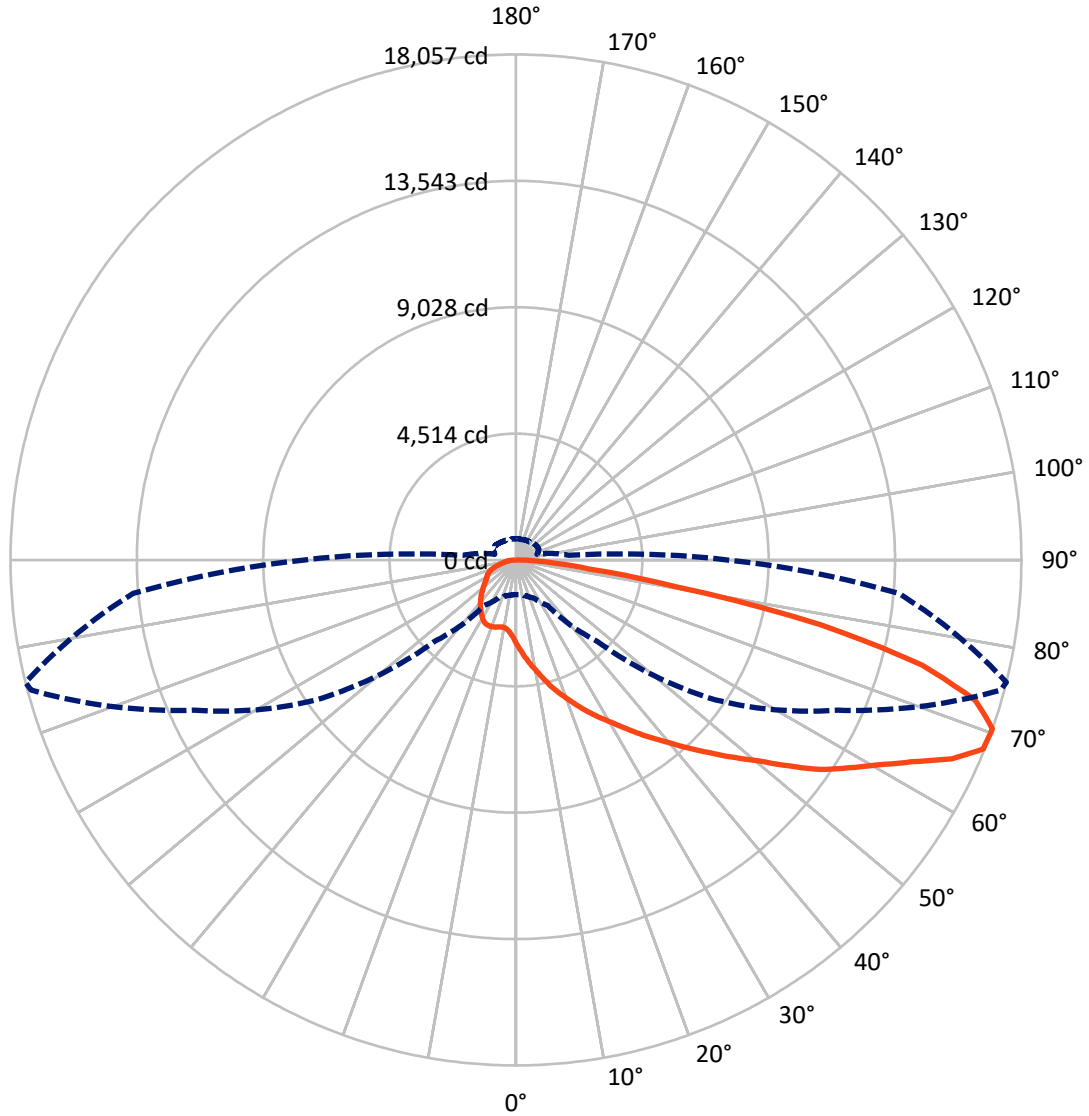
✕ Max cd  
 - - - 1/2 Max cd



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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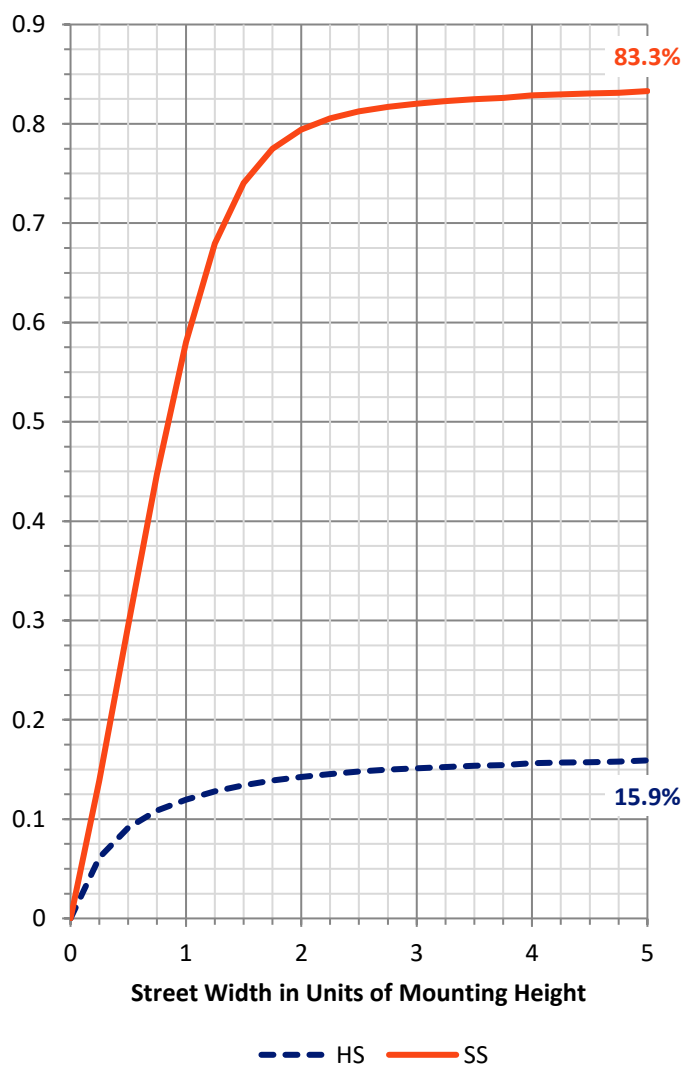
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3910.4	0.0	3910.4
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	20041.6	0.0	20041.6
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	23952.0	0.0	23952.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	311.2	1.3
10°-20°	1057.7	4.4
20°-30°	1892.5	7.9
30°-40°	3061.3	12.8
40°-50°	4428.7	18.5
50°-60°	5068.9	21.2
60°-70°	4662.8	19.5
70°-80°	2883.4	12.0
80°-90°	585.5	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°	23952.0	100.0
0°-180°	23952.0	100.0

**Coefficient of Utilization**



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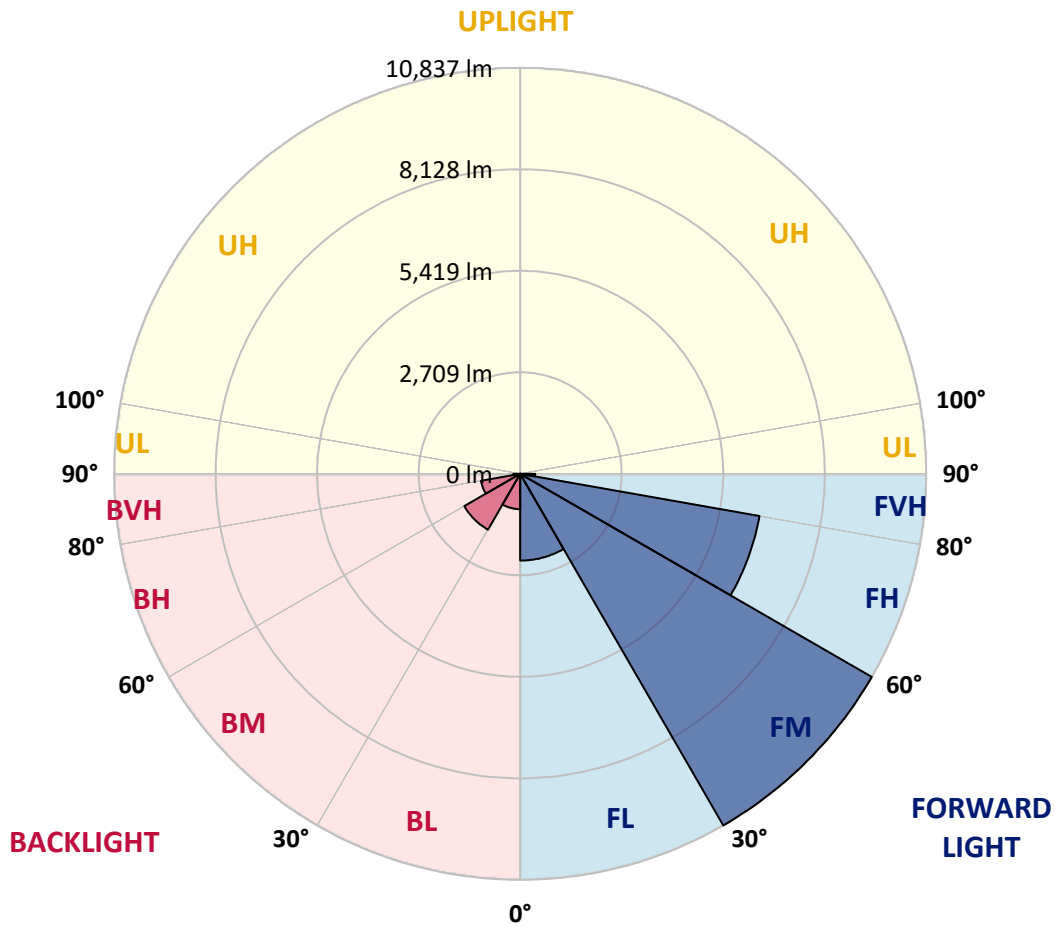
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2317.0	9.7			
FM (30°-60°)	10837.1	45.2			
FH (60°-80°)	6485.6	27.1			G3/7500
FVH (80°-90°)	402.0	1.7			G3/500
BL (0°-30°)	944.5	3.9	B2/1000		
BM (30°-60°)	1721.7	7.2	B2/2500		
BH (60°-80°)	1060.6	4.4	B3/2500		G3/2500
BVH (80°-90°)	183.6	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°	2995.3	2995.3	2995.3	2995.3	2995.3	2995.3	2995.3	2995.3	2995.3	2995.3	2995.3
2.5°	3817.4	3789.0	3785.9	3741.8	3700.8	3590.6	3511.8	3373.3	3234.7	3231.5	3092.9
5°	4412.6	4384.3	4368.5	4315.0	4245.7	4100.8	3959.1	3744.9	3508.7	3492.9	3231.5
7.5°	4815.8	4790.6	4759.1	4737.0	4670.9	4541.8	4368.5	4113.4	3789.0	3757.5	3392.2
10°	5086.7	5070.9	5064.6	5048.9	5007.9	4904.0	4737.0	4466.2	4069.3	4034.7	3562.2
12.5°	5203.2	5196.9	5225.2	5269.3	5285.1	5244.1	5083.5	4828.4	4378.0	4340.2	3767.0
15°	5067.8	5074.1	5146.5	5297.7	5458.3	5546.5	5452.0	5203.2	4727.6	4674.1	4006.3
17.5°	5004.8	5014.2	5064.6	5209.5	5436.3	5710.3	5754.4	5559.1	5064.6	4989.0	4258.3
20°	5115.0	5127.6	5165.4	5278.8	5436.3	5729.2	5959.1	5899.3	5395.3	5316.6	4500.8
22.5°	5395.3	5411.1	5407.9	5480.4	5587.4	5789.0	6072.5	6220.5	5741.8	5653.6	4752.8
25°	5993.7	5981.2	5874.1	5839.4	5867.8	5996.9	6223.7	6529.2	6104.0	6015.8	5017.4
27.5°	6806.4	6790.6	6595.3	6419.0	6261.5	6318.2	6437.8	6778.0	6472.5	6371.7	5269.3
30°	7675.7	7656.8	7430.0	7143.4	6793.8	6711.9	6696.1	6995.3	6844.2	6737.1	5537.1
32.5°	8522.9	8507.2	8264.6	7930.8	7448.9	7203.2	7052.0	7237.9	7266.2	7162.3	5830.0
35°	9294.6	9294.6	9086.7	8689.8	8144.9	7773.3	7524.5	7537.1	7751.2	7631.6	6163.8
37.5°	9981.2	9978.0	9751.3	9360.7	8837.9	8412.7	8104.0	7899.3	8214.2	8110.3	6513.4
40°	10526.1	10504.0	10337.1	9996.9	9470.9	9048.9	8737.1	8324.5	8730.8	8636.3	6885.1
42.5°	10922.9	10910.3	10796.9	10500.9	10000.1	9603.2	9389.1	8859.9	9316.6	9222.1	7319.7
45°	11077.3	11102.5	11102.5	10822.1	10425.3	10063.1	9968.6	9448.9	9949.7	9855.2	7785.9
47.5°	10828.4	10894.6	11030.0	11048.9	10699.3	10453.6	10485.1	10041.0	10601.7	10551.3	8296.1
50°	10050.5	10173.3	10469.4	11004.8	10809.5	10752.8	10926.1	10645.8	11300.9	11285.1	8916.6
52.5°	8044.2	8343.4	9266.2	10226.9	10733.9	10891.4	11363.9	11326.1	12201.7	12226.9	9726.1
55°	6170.1	6283.5	7351.2	8985.9	10271.0	10847.3	11656.8	11990.6	13178.1	13209.6	10469.4
57.5°	4989.0	5064.6	5647.3	7351.2	9215.8	10608.0	11886.7	12378.1	13927.7	14009.6	11130.8
60°	3952.8	4063.0	4453.6	5625.2	7738.6	10031.6	12047.3	12809.6	14734.0	14856.8	11921.4
62.5°	2938.6	2992.2	3360.7	4167.0	6126.0	8995.3	11962.3	13278.8	15723.0	15871.0	12872.5
65°	2091.4	2138.6	2400.0	2963.8	4529.2	7593.8	11467.8	13628.5	16963.9	17115.1	13830.0
67.5°	1565.4	1584.3	1732.3	2072.5	3052.0	5899.3	10466.2	13568.6	17871.0	18006.4	14214.3
70°	1237.8	1244.1	1316.5	1499.2	1984.3	4107.1	8711.9	12689.9	17937.2	18056.8	13729.2
72.5°	1026.8	1023.6	1064.6	1152.8	1382.7	2598.4	6453.6	11058.4	17086.8	17168.6	12374.9
75°	847.3	853.6	881.9	932.3	1055.1	1713.4	4182.7	8822.1	15074.1	14985.9	10384.3
77.5°	711.8	708.7	721.3	765.4	853.6	1231.5	2450.4	6374.9	11171.7	11127.7	6815.8
80°	573.2	579.5	598.4	636.2	718.1	938.6	1448.8	3978.0	5993.7	5833.1	3256.7
82.5°	384.3	444.1	481.9	526.0	620.5	692.9	919.7	2022.1	2680.3	2639.4	1477.2
85°	182.7	242.5	359.1	409.5	503.9	434.6	623.6	963.8	1341.7	1326.0	532.3
87.5°	37.8	37.8	192.1	229.9	311.8	185.8	346.5	418.9	648.8	607.9	217.3
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°	2995.3	2995.3	2995.3	2995.3	2995.3	2995.3	2995.3	2995.3	2995.3	2995.3	2995.3
2.5°	3011.0	2926.0	2755.9	2620.5	2481.9	2403.2	2305.5	2258.3	2248.8	2223.6	2242.5
5°	3064.6	2897.7	2576.4	2365.4	2223.6	2154.3	2119.7	2107.1	2104.0	2097.7	2097.7
7.5°	3137.0	2881.9	2463.0	2248.8	2157.5	2135.5	2144.9	2163.8	2166.9	2173.2	2170.1
10°	3225.2	2885.1	2400.0	2220.5	2176.4	2179.5	2211.0	2236.2	2248.8	2258.3	2255.1
12.5°	3348.1	2922.9	2390.6	2239.4	2220.5	2233.1	2264.6	2289.8	2302.4	2305.5	2305.5
15°	3508.7	3001.6	2412.6	2280.3	2264.6	2274.0	2292.9	2302.4	2305.5	2302.4	2302.4
17.5°	3685.1	3096.1	2444.1	2305.5	2280.3	2270.9	2264.6	2255.1	2236.2	2223.6	2223.6
20°	3855.1	3181.1	2459.9	2302.4	2258.3	2220.5	2182.7	2135.5	2104.0	2078.8	2078.8
22.5°	4025.2	3259.9	2459.9	2267.7	2198.4	2126.0	2047.3	1971.7	1924.4	1892.9	1892.9
25°	4204.8	3335.5	2441.0	2207.9	2104.0	2000.0	1892.9	1798.4	1751.2	1719.7	1713.4
27.5°	4355.9	3379.6	2390.6	2122.9	1987.4	1855.1	1732.3	1634.7	1600.0	1571.7	1571.7
30°	4516.6	3407.9	2296.1	2012.6	1855.1	1704.0	1578.0	1499.2	1461.4	1420.5	1417.3
32.5°	4696.1	3426.8	2189.0	1896.1	1719.7	1559.1	1452.0	1389.0	1307.1	1263.0	1256.7
35°	4904.0	3452.0	2075.6	1763.8	1584.3	1439.4	1376.4	1272.5	1193.7	1155.9	1152.8
37.5°	5124.5	3470.9	1952.8	1647.3	1461.4	1360.6	1297.6	1174.8	1105.5	1048.8	1042.5
40°	5357.5	3470.9	1826.8	1533.9	1363.8	1326.0	1206.3	1096.1	979.5	951.2	944.9
42.5°	5615.8	3464.6	1700.8	1423.6	1272.5	1247.3	1152.8	1036.2	976.4	951.2	944.9
45°	5889.8	3442.5	1581.1	1297.6	1178.0	1127.6	1055.1	1023.6	998.4	998.4	998.4
47.5°	6201.6	3423.7	1445.7	1184.3	1108.7	1052.0	998.4	979.5	976.4	985.8	995.3
50°	6601.6	3417.4	1332.3	1102.4	1055.1	989.0	982.7	966.9	970.1	970.1	970.1
52.5°	7086.7	3360.7	1225.2	1042.5	1001.6	922.8	941.7	957.5	963.8	960.6	957.5
55°	7442.6	3259.9	1133.9	1001.6	963.8	897.6	922.8	948.0	954.3	944.9	944.9
57.5°	7763.8	3118.1	1061.4	970.1	938.6	881.9	910.2	935.4	929.1	926.0	922.8
60°	8132.3	2982.7	1004.7	954.3	913.4	875.6	900.8	916.5	907.1	900.8	897.6
62.5°	8532.4	2850.4	963.8	954.3	894.5	872.4	891.3	897.6	878.7	872.4	872.4
65°	8718.2	2642.5	919.7	954.3	885.0	866.1	872.4	866.1	847.3	847.3	844.1
67.5°	8412.7	2299.2	863.0	941.7	897.6	856.7	844.1	834.7	812.6	812.6	806.3
70°	7568.6	1889.8	781.1	900.8	900.8	853.6	806.3	784.3	759.1	768.5	755.9
72.5°	6466.2	1499.2	680.3	831.5	881.9	850.4	765.4	730.7	708.7	718.1	699.2
75°	5237.8	1162.2	560.6	721.3	834.7	834.7	724.4	677.2	652.0	652.0	629.9
77.5°	3338.6	859.8	456.7	598.4	749.6	812.6	689.8	617.3	579.5	570.1	554.3
80°	1653.6	604.7	374.8	475.6	639.4	762.2	664.6	548.0	494.5	475.6	447.2
82.5°	878.7	418.9	299.2	371.7	510.2	686.6	633.1	472.4	406.3	378.0	346.5
85°	393.7	258.3	239.4	283.5	387.4	563.8	570.1	387.4	311.8	371.7	274.0
87.5°	144.9	116.5	116.5	144.9	223.6	236.2	403.2	248.8	198.4	135.4	107.1
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)