

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: P399213

Luminaire Tested: **ARCH-L-PA3-110-740-U-T2U**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399213  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-110-740-U-T2U  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 4000K, 485mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18232 lumens  
Efficiency: N/A  
Efficacy: 161.3 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

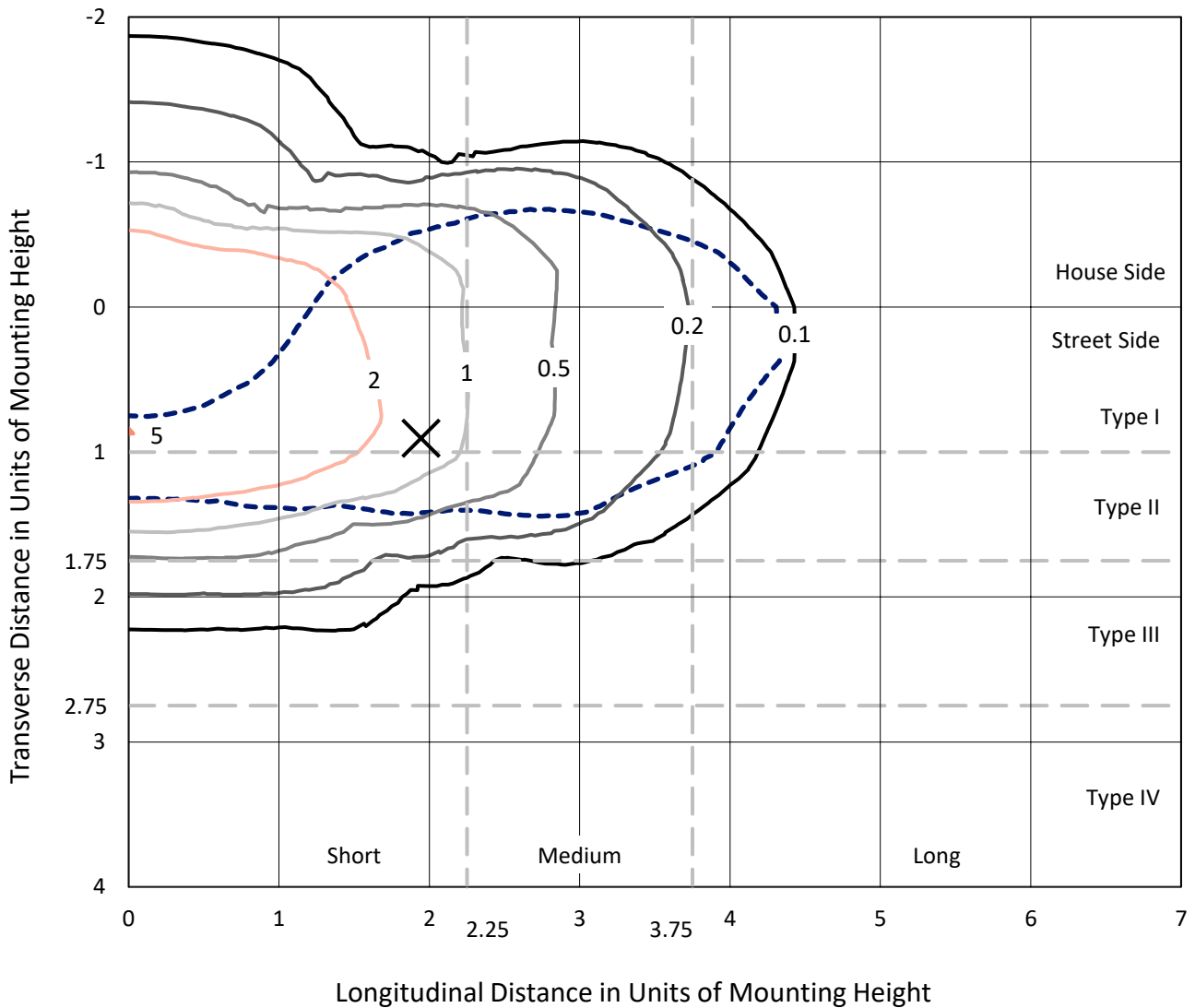
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

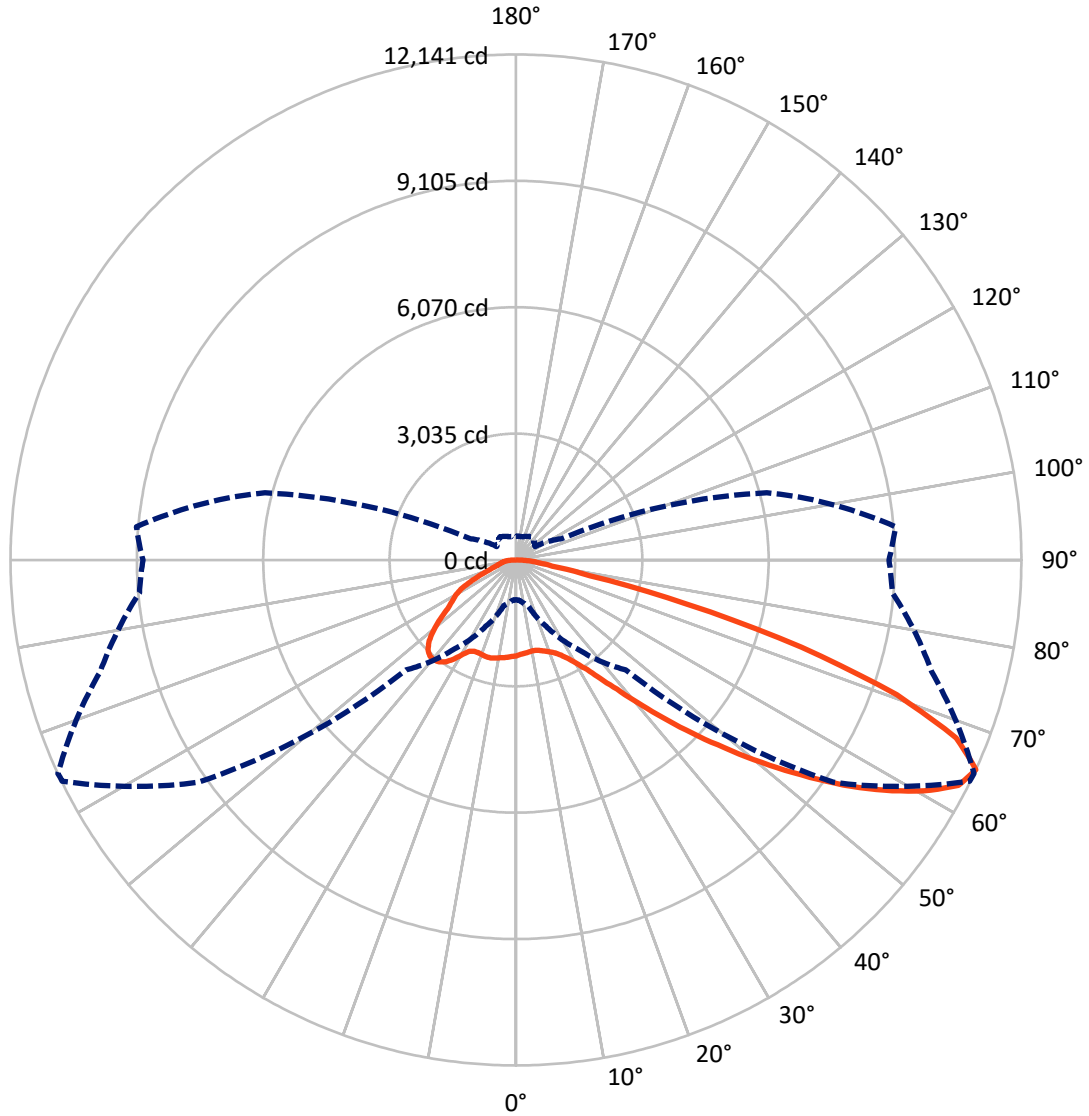
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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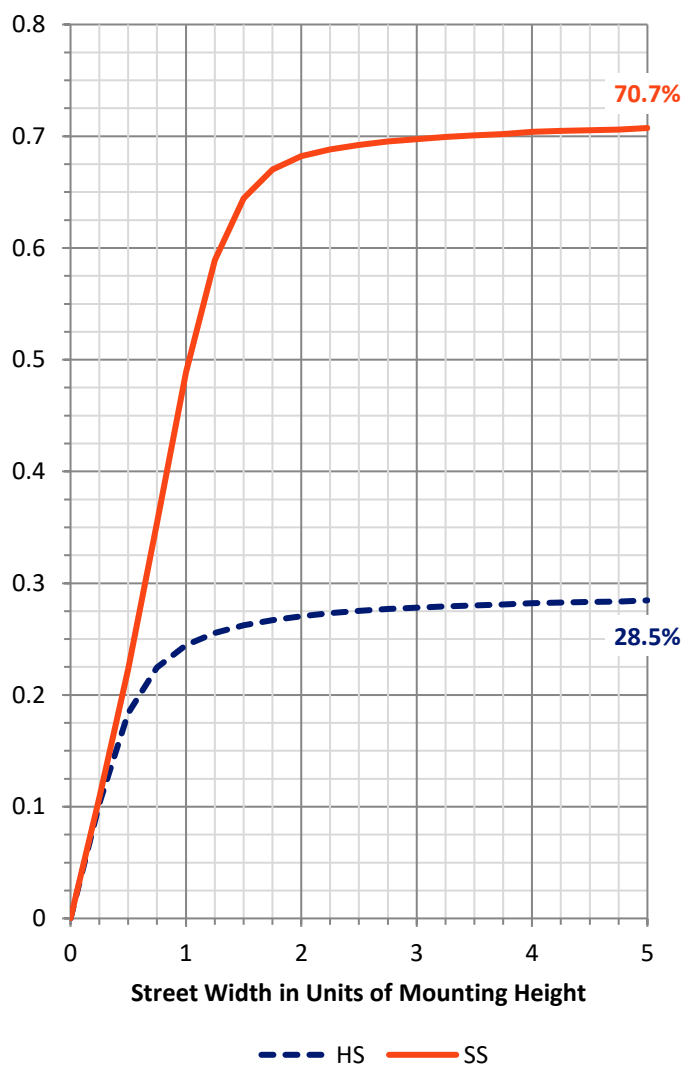
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5271.1	0.0	5271.1
	% Fixture	28.9	0.0	28.9
<b>Street Side</b>	Lumens	12960.9	0.0	12960.9
	% Fixture	71.1	0.0	71.1
<b>Total</b>	Lumens	18232.0	0.0	18232.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.5	1.2
10°-20°	655.3	3.6
20°-30°	1164.0	6.4
30°-40°	1969.2	10.8
40°-50°	3428.0	18.8
50°-60°	4430.0	24.3
60°-70°	3876.5	21.3
70°-80°	2108.6	11.6
80°-90°	381.0	2.1
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°	18232.0	100.0
0°-180°	18232.0	100.0

**Coefficient of Utilization**



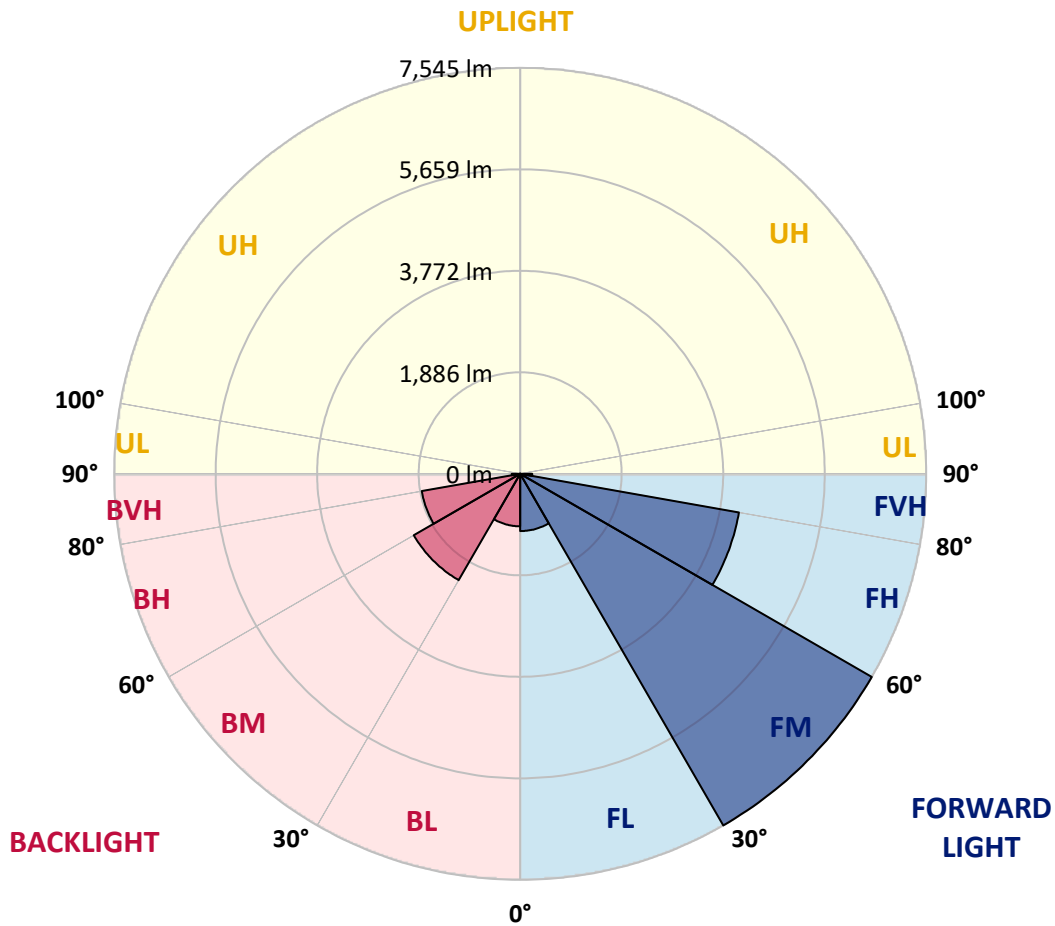
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1063.8	5.8			
FM (30°-60°)	7544.9	41.4			
FH (60°-80°)	4128.0	22.6			G2/5000
FVH (80°-90°)	224.2	1.2			G2/225
BL (0°-30°)	975.0	5.3	B2/1000		
BM (30°-60°)	2282.3	12.5	B2/2500		
BH (60°-80°)	1857.1	10.2	B3/2500		G3/2500
BVH (80°-90°)	156.8	0.9			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2303.8	2303.8	2303.8	2303.8	2303.8	2303.8	2303.8	2303.8	2303.8	2303.8	2303.8
2.5°	2263.0	2260.6	2255.8	2260.6	2263.0	2267.8	2265.4	2270.2	2267.8	2275.0	2287.0
5°	2205.4	2200.6	2198.2	2210.2	2217.4	2229.4	2234.2	2251.0	2248.6	2260.6	2279.8
7.5°	2140.6	2140.6	2138.2	2152.6	2162.2	2183.8	2200.6	2229.4	2231.8	2253.4	2275.0
10°	2090.2	2092.6	2090.2	2102.2	2116.6	2143.0	2171.8	2212.6	2215.0	2246.2	2267.8
12.5°	2071.0	2071.0	2071.0	2087.8	2107.0	2143.0	2176.6	2219.8	2224.6	2258.2	2277.4
15°	2097.4	2099.8	2095.0	2111.8	2133.4	2176.6	2207.8	2253.4	2258.2	2289.4	2301.4
17.5°	2191.0	2200.6	2188.6	2198.2	2193.4	2227.0	2255.8	2301.4	2303.8	2330.2	2335.0
20°	2375.8	2385.4	2366.2	2354.2	2311.0	2308.6	2320.6	2356.6	2356.6	2373.4	2361.4
22.5°	2661.4	2671.0	2637.4	2591.8	2488.6	2438.2	2411.8	2428.6	2426.2	2433.4	2402.2
25°	3040.5	3038.1	2997.3	2913.3	2747.7	2625.4	2560.6	2534.2	2534.2	2519.8	2481.4
27.5°	3510.9	3474.9	3402.9	3302.1	3071.7	2901.3	2762.1	2695.0	2683.0	2639.8	2567.8
30°	4012.4	3986.0	3882.8	3736.5	3470.1	3251.7	3021.3	2886.9	2879.7	2786.1	2678.2
32.5°	4602.8	4559.6	4444.4	4269.2	3950.0	3642.9	3354.9	3150.9	3138.9	2990.1	2841.3
35°	5361.1	5325.1	5101.9	4926.7	4516.4	4113.2	3772.5	3501.3	3491.7	3309.3	3119.7
37.5°	6270.6	6177.0	5961.1	5632.3	5200.3	4722.8	4290.8	3950.0	3938.0	3736.5	3496.5
40°	7081.8	6997.8	6805.8	6503.4	6040.2	5509.9	4924.3	4511.6	4499.6	4254.8	3952.4
42.5°	7681.7	7624.1	7499.3	7324.1	6993.0	6671.4	5733.1	5190.7	5169.1	4852.4	4475.6
45°	8029.7	7984.1	7912.1	7955.3	7950.5	7890.5	6697.8	5999.5	5929.9	5519.5	5058.7
47.5°	7945.7	7904.9	7933.7	8269.6	8732.8	9080.8	7820.9	6827.4	6733.8	6198.6	5680.3
50°	7338.5	7355.3	7506.5	8149.7	9188.8	9961.5	9066.4	7770.5	7645.7	6882.6	6270.6
52.5°	6232.2	6273.0	6640.2	7540.1	9138.4	10532.6	10191.9	8744.8	8579.2	7549.7	6808.2
55°	4950.7	5053.9	5529.1	6474.6	8480.8	10573.4	11041.4	9723.9	9541.5	8176.1	7276.1
57.5°	3662.1	3815.7	4365.2	5233.9	7220.9	9927.9	11466.1	10659.8	10439.0	8797.6	7770.5
60°	2323.0	2416.6	3050.1	4074.8	5526.7	8348.8	11411.0	11456.5	11264.6	9416.7	8286.4
62.5°	1483.1	1528.7	1847.8	2906.1	3863.6	6181.8	10808.6	12058.9	11929.3	9980.7	8776.0
65°	952.7	971.9	1135.1	1787.8	2630.2	3731.7	9308.7	12123.7	12140.5	10333.5	9078.4
67.5°	775.1	784.7	844.7	1103.9	1859.8	2061.4	6484.2	11202.2	11406.2	10242.3	8975.2
70°	705.5	717.5	779.9	880.7	1439.9	1423.1	3138.9	9373.5	9707.1	9716.7	8516.8
72.5°	595.1	611.9	695.9	832.7	1113.5	1123.1	1329.5	6676.2	7168.1	8684.8	7828.1
75°	496.8	506.4	578.3	734.3	943.1	897.5	933.5	3539.7	4250.0	6964.2	7096.1
77.5°	403.2	412.8	465.6	585.5	837.5	698.3	734.3	1466.3	1811.8	4727.6	5800.3
80°	288.0	297.6	357.6	456.0	633.5	628.7	544.8	808.7	878.3	2555.8	3767.7
82.5°	206.4	213.6	271.2	326.4	439.2	631.1	410.4	549.5	575.9	1132.7	1519.1
85°	139.2	139.2	187.2	216.0	283.2	398.4	331.2	372.0	388.8	537.6	410.4
87.5°	60.0	60.0	100.8	110.4	148.8	184.8	247.2	187.2	192.0	290.4	168.0
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°	2303.8	2303.8	2303.8	2303.8	2303.8	2303.8	2303.8	2303.8	2303.8	2303.8	2303.8
2.5°	2294.2	2296.6	2301.4	2315.8	2325.4	2339.8	2347.0	2356.6	2356.6	2351.8	2354.2
5°	2289.4	2296.6	2313.4	2339.8	2356.6	2383.0	2402.2	2416.6	2421.4	2416.6	2419.0
7.5°	2287.0	2299.0	2327.8	2366.2	2390.2	2423.8	2450.2	2467.0	2479.0	2474.2	2476.6
10°	2279.8	2299.0	2335.0	2383.0	2419.0	2452.6	2476.6	2483.8	2491.0	2486.2	2483.8
12.5°	2289.4	2311.0	2349.4	2407.0	2447.8	2474.2	2481.4	2469.4	2452.6	2443.0	2440.6
15°	2308.6	2330.2	2368.6	2428.6	2464.6	2474.2	2457.4	2419.0	2380.6	2359.0	2356.6
17.5°	2335.0	2349.4	2380.6	2433.4	2462.2	2450.2	2416.6	2371.0	2342.2	2325.4	2327.8
20°	2351.8	2351.8	2375.8	2416.6	2440.6	2431.0	2390.2	2339.8	2294.2	2272.6	2265.4
22.5°	2375.8	2363.8	2366.2	2402.2	2435.8	2421.4	2335.0	2246.2	2181.4	2157.4	2155.0
25°	2440.6	2407.0	2385.4	2407.0	2486.2	2368.6	2195.8	2092.6	2032.6	2011.0	2013.4
27.5°	2519.8	2474.2	2428.6	2464.6	2527.0	2248.6	2018.2	1900.6	1864.6	1847.8	1855.0
30°	2599.0	2539.0	2479.0	2608.6	2498.2	2061.4	1790.2	1675.0	1643.8	1631.9	1641.4
32.5°	2745.3	2647.0	2575.0	2800.5	2409.4	1847.8	1543.1	1437.5	1408.7	1394.3	1389.5
35°	2990.1	2865.3	2793.3	2968.5	2284.6	1610.3	1317.5	1243.1	1211.9	1180.7	1175.9
37.5°	3342.9	3191.7	3126.9	3064.5	2109.4	1375.1	1144.7	1094.3	1048.7	1000.7	998.3
40°	3765.3	3568.5	3520.5	3107.7	1867.0	1154.3	1024.7	976.7	919.1	873.5	875.9
42.5°	4252.4	4000.4	3897.2	3095.7	1567.1	1036.7	938.3	885.5	835.1	794.3	791.9
45°	4773.2	4487.6	4250.0	3011.7	1269.5	955.1	885.5	823.1	772.7	727.1	722.3
47.5°	5349.1	5029.9	4576.4	2848.5	1048.7	897.5	854.3	765.5	719.9	691.1	691.1
50°	5929.9	5548.3	4876.4	2601.4	919.1	854.3	808.7	734.3	698.3	674.3	674.3
52.5°	6426.6	6088.2	5123.5	2306.2	837.5	818.3	777.5	719.9	681.5	659.9	657.5
55°	6909.0	6589.8	5344.3	2013.4	770.3	770.3	770.3	707.9	664.7	645.5	643.1
57.5°	7388.9	7117.7	5574.7	1821.4	710.3	729.5	755.9	693.5	650.3	633.5	631.1
60°	7931.3	7751.3	5841.1	1687.0	657.5	686.3	736.7	676.7	626.3	611.9	609.5
62.5°	8507.2	8507.2	6083.4	1497.5	609.5	650.3	707.9	655.1	604.7	592.7	590.3
65°	8958.4	9152.8	6239.4	1214.3	561.5	614.3	674.3	626.3	575.9	573.5	568.7
67.5°	9011.2	9315.9	6141.0	916.7	518.4	575.9	640.7	595.1	547.1	547.1	540.0
70°	8632.0	8941.6	5833.9	686.3	487.2	537.6	597.5	556.7	511.2	516.0	504.0
72.5°	7998.5	8075.3	5070.7	542.4	451.2	496.8	544.8	513.6	472.8	472.8	456.0
75°	7163.3	6736.2	3683.7	453.6	408.0	448.8	492.0	465.6	429.6	417.6	408.0
77.5°	5701.9	4881.2	2140.6	391.2	372.0	403.2	432.0	412.8	381.6	355.2	355.2
80°	3474.9	2860.5	945.5	338.4	328.8	352.8	372.0	350.4	324.0	297.6	290.4
82.5°	1322.3	1103.9	458.4	290.4	288.0	302.4	316.8	295.2	276.0	264.0	228.0
85°	362.4	333.6	314.4	242.4	237.6	235.2	252.0	242.4	216.0	177.6	158.4
87.5°	136.8	156.0	170.4	148.8	158.4	146.4	168.0	153.6	136.8	88.8	79.2
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)