

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: P399222

Luminaire Tested: **ARCH-L-PA3-110-750-U-T2U**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399222  
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-PA3-110-750-U-T2U  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5000K, 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: 18231 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

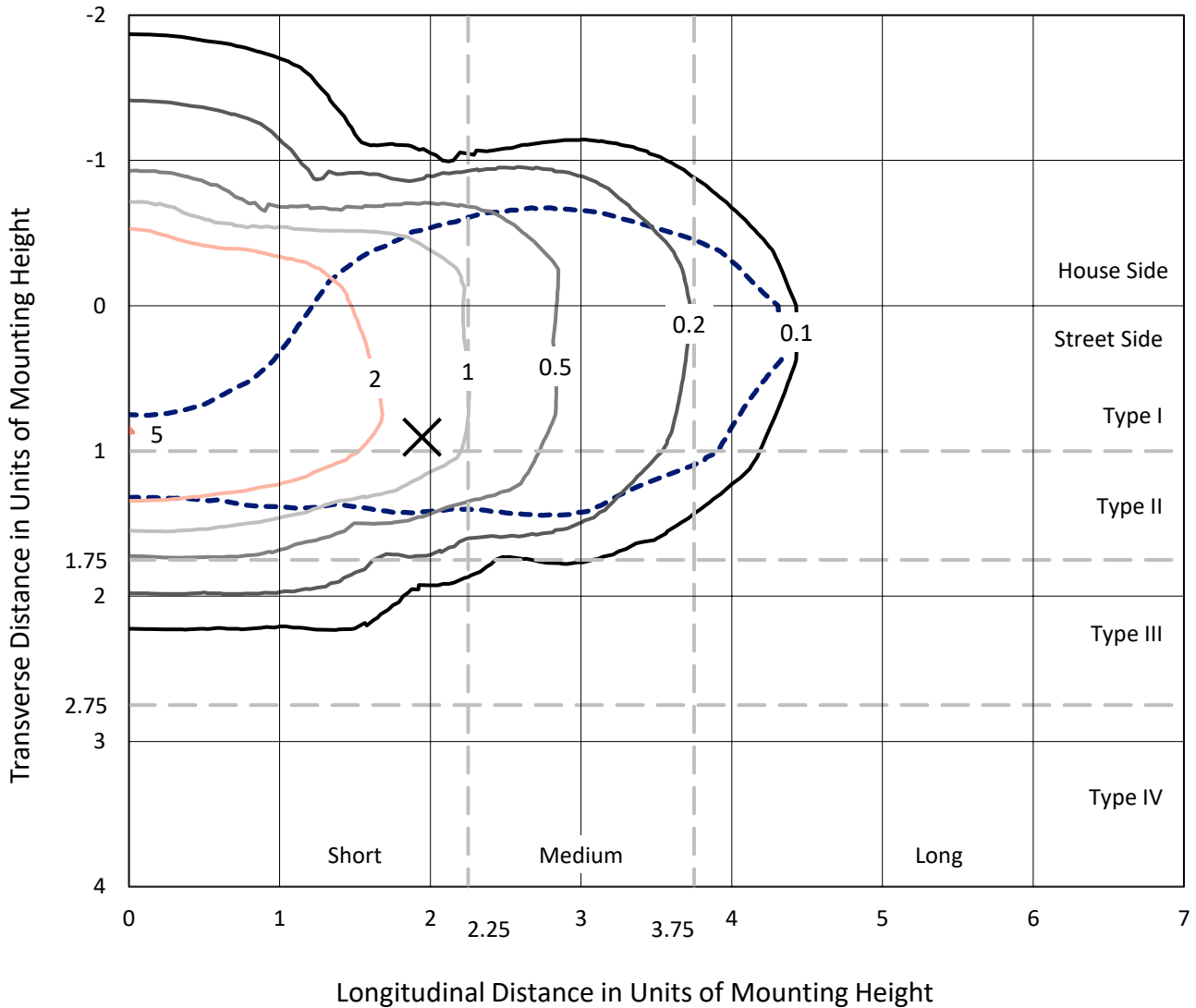
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

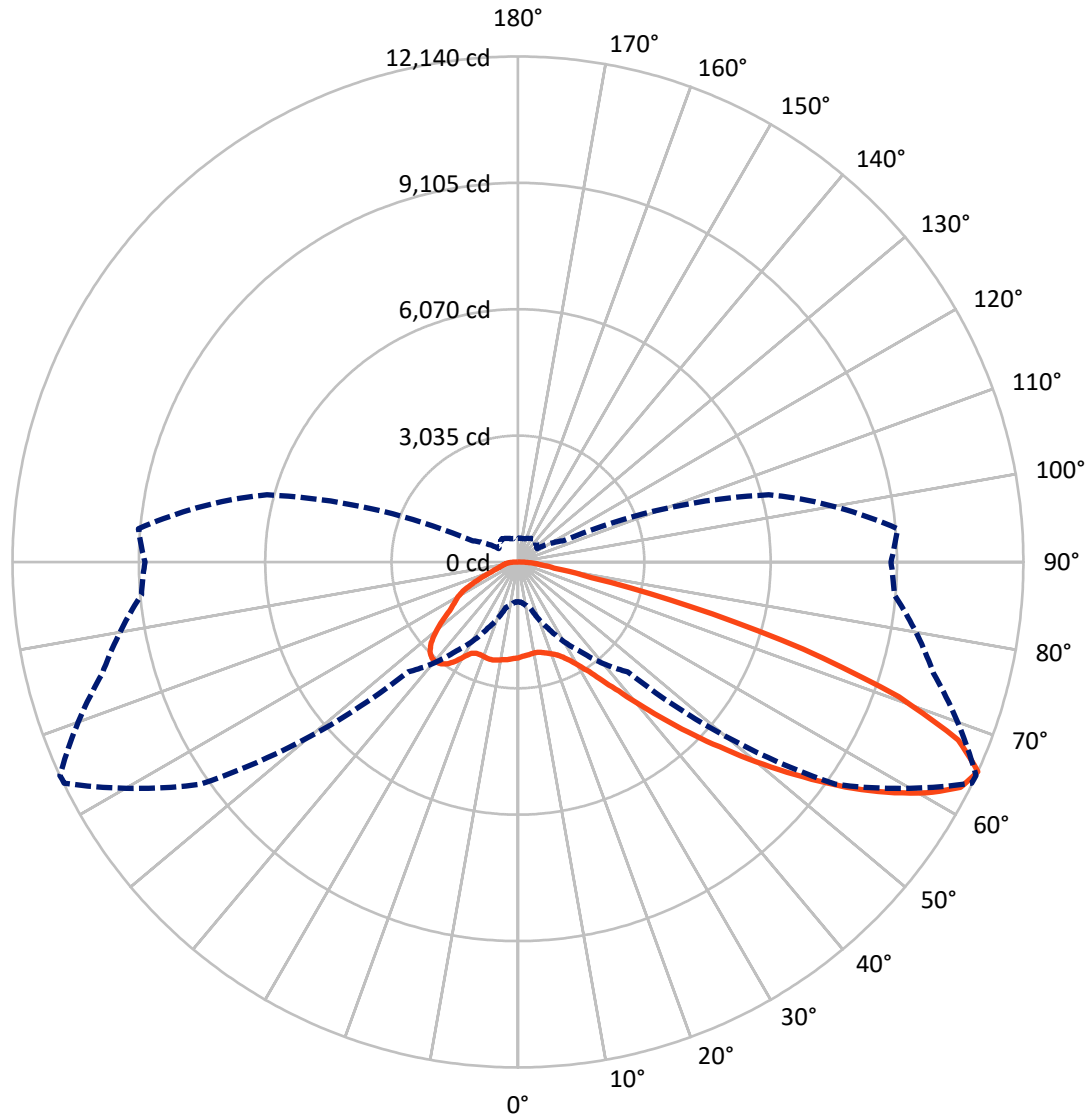
✕ Max cd  
 - - - 1/2 Max cd



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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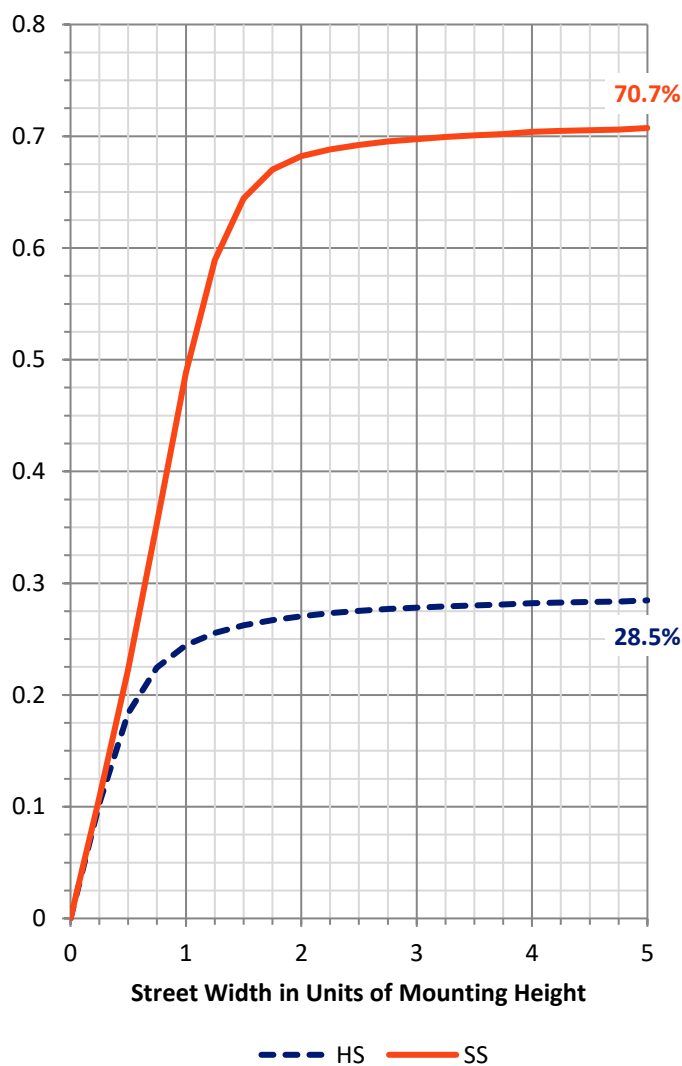
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5270.9	0.0	5270.9
	% Fixture	28.9	0.0	28.9
<b>Street Side</b>	Lumens	12960.2	0.0	12960.2
	% Fixture	71.1	0.0	71.1
<b>Total</b>	Lumens	18231.0	0.0	18231.0
	% 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°	1163.9	6.4
30°-40°	1969.1	10.8
40°-50°	3427.8	18.8
50°-60°	4429.8	24.3
60°-70°	3876.3	21.3
70°-80°	2108.4	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°	18231.0	100.0
0°-180°	18231.0	100.0

**Coefficient of Utilization**



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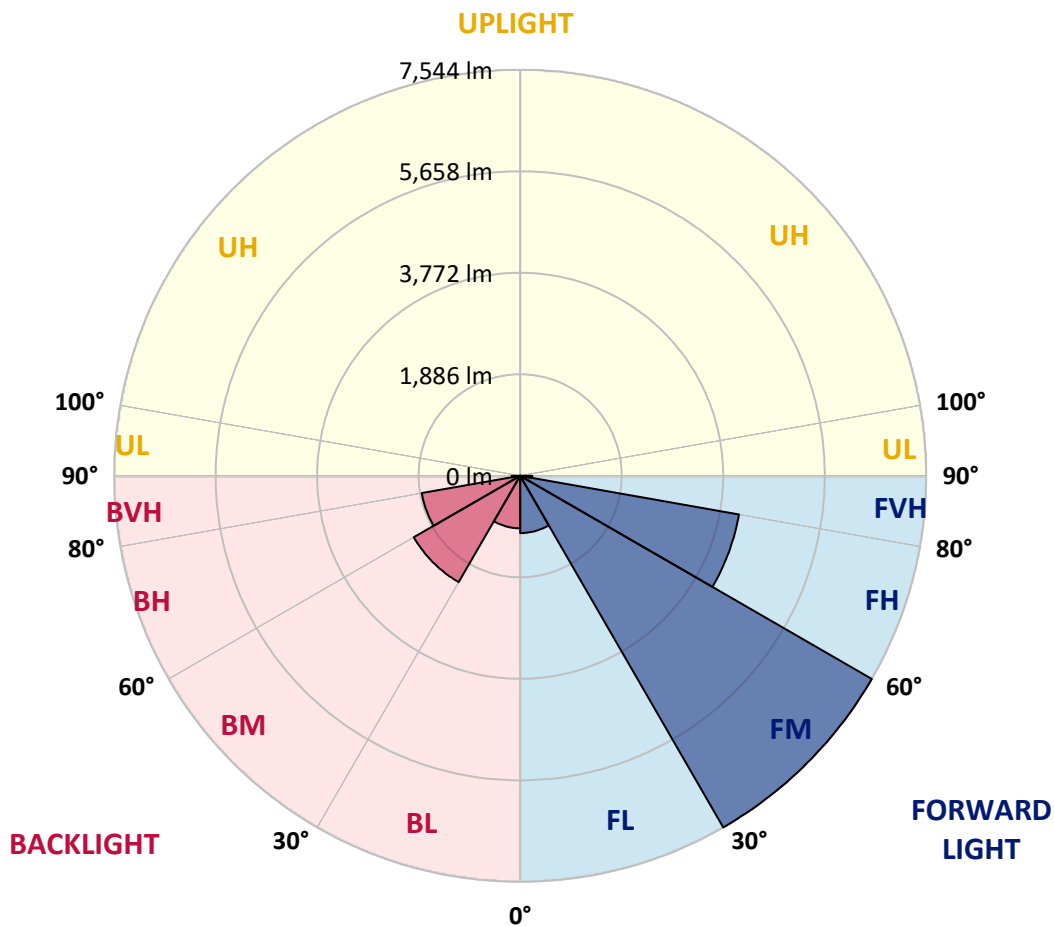
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1063.7	5.8			
FM (30°-60°)	7544.5	41.4			
FH (60°-80°)	4127.8	22.6			G2/5000
FVH (80°-90°)	224.2	1.2			G2/225
BL (0°-30°)	974.9	5.3	B2/1000		
BM (30°-60°)	2282.2	12.5	B2/2500		
BH (60°-80°)	1857.0	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°	2303.7	2303.7	2303.7	2303.7	2303.7	2303.7	2303.7	2303.7	2303.7	2303.7	2303.7
2.5°	2262.9	2260.5	2255.7	2260.5	2262.9	2267.7	2265.3	2270.1	2267.7	2274.9	2286.9
5°	2205.3	2200.5	2198.1	2210.1	2217.3	2229.3	2234.1	2250.9	2248.5	2260.5	2279.7
7.5°	2140.5	2140.5	2138.1	2152.5	2162.1	2183.7	2200.5	2229.3	2231.7	2253.3	2274.9
10°	2090.1	2092.5	2090.1	2102.1	2116.5	2142.9	2171.7	2212.5	2214.9	2246.1	2267.7
12.5°	2070.9	2070.9	2070.9	2087.7	2106.9	2142.9	2176.5	2219.7	2224.5	2258.1	2277.3
15°	2097.3	2099.7	2094.9	2111.7	2133.3	2176.5	2207.7	2253.3	2258.1	2289.3	2301.3
17.5°	2190.9	2200.5	2188.5	2198.1	2193.3	2226.9	2255.7	2301.3	2303.7	2330.1	2334.9
20°	2375.7	2385.3	2366.1	2354.1	2310.9	2308.5	2320.5	2356.5	2356.5	2373.3	2361.3
22.5°	2661.2	2670.8	2637.2	2591.6	2488.4	2438.0	2411.6	2428.4	2426.0	2433.2	2402.0
25°	3040.4	3038.0	2997.2	2913.2	2747.6	2625.2	2560.4	2534.0	2534.0	2519.6	2481.2
27.5°	3510.7	3474.7	3402.7	3301.9	3071.5	2901.2	2762.0	2694.8	2682.8	2639.6	2567.6
30°	4012.2	3985.8	3882.6	3736.3	3469.9	3251.5	3021.2	2886.8	2879.6	2786.0	2678.0
32.5°	4602.5	4559.3	4444.1	4269.0	3949.8	3642.7	3354.7	3150.7	3138.7	2990.0	2841.2
35°	5360.8	5324.8	5101.7	4926.5	4516.1	4113.0	3772.2	3501.1	3491.5	3309.1	3119.5
37.5°	6270.3	6176.7	5960.7	5632.0	5200.0	4722.5	4290.6	3949.8	3937.8	3736.3	3496.3
40°	7081.4	6997.4	6805.4	6503.0	6039.9	5509.6	4924.1	4511.3	4499.3	4254.6	3952.2
42.5°	7681.3	7623.7	7498.9	7323.7	6992.6	6671.0	5732.8	5190.4	5168.8	4852.1	4475.3
45°	8029.2	7983.6	7911.6	7954.8	7950.0	7890.0	6697.4	5999.1	5929.5	5519.2	5058.5
47.5°	7945.2	7904.4	7933.2	8269.2	8732.3	9080.3	7820.5	6827.0	6733.4	6198.3	5680.0
50°	7338.1	7354.9	7506.1	8149.2	9188.3	9960.9	9065.9	7770.1	7645.3	6882.2	6270.3
52.5°	6231.9	6272.7	6639.8	7539.7	9137.9	10532.1	10191.3	8744.3	8578.7	7549.3	6807.8
55°	4950.5	5053.7	5528.8	6474.3	8480.4	10572.9	11040.8	9723.4	9541.0	8175.6	7275.7
57.5°	3661.9	3815.4	4365.0	5233.6	7220.5	9927.3	11465.5	10659.2	10438.5	8797.1	7770.1
60°	2322.9	2416.4	3050.0	4074.6	5526.4	8348.4	11410.3	11455.9	11263.9	9416.2	8286.0
62.5°	1483.0	1528.6	1847.7	2906.0	3863.4	6181.5	10808.0	12058.2	11928.7	9980.1	8775.5
65°	952.7	971.9	1135.0	1787.7	2630.0	3731.5	9308.2	12123.0	12139.8	10332.9	9077.9
67.5°	775.1	784.7	844.7	1103.8	1859.7	2061.3	6483.8	11201.6	11405.5	10241.7	8974.7
70°	705.5	717.5	779.9	880.7	1439.8	1423.0	3138.7	9373.0	9706.6	9716.2	8516.4
72.5°	595.1	611.9	695.9	832.7	1113.4	1123.0	1329.4	6675.8	7167.7	8684.3	7827.7
75°	496.7	506.3	578.3	734.3	943.1	897.5	933.5	3539.5	4249.8	6963.8	7095.8
77.5°	403.1	412.7	465.5	585.5	837.5	698.3	734.3	1466.2	1811.7	4727.3	5800.0
80°	288.0	297.6	357.5	455.9	633.5	628.7	544.7	808.7	878.3	2555.6	3767.4
82.5°	206.4	213.6	271.2	326.4	439.1	631.1	410.3	549.5	575.9	1132.6	1519.0
85°	139.2	139.2	187.2	216.0	283.2	398.3	331.2	371.9	388.7	537.5	410.3
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°	2303.7	2303.7	2303.7	2303.7	2303.7	2303.7	2303.7	2303.7	2303.7	2303.7	2303.7
2.5°	2294.1	2296.5	2301.3	2315.7	2325.3	2339.7	2346.9	2356.5	2356.5	2351.7	2354.1
5°	2289.3	2296.5	2313.3	2339.7	2356.5	2382.9	2402.0	2416.4	2421.2	2416.4	2418.8
7.5°	2286.9	2298.9	2327.7	2366.1	2390.0	2423.6	2450.0	2466.8	2478.8	2474.0	2476.4
10°	2279.7	2298.9	2334.9	2382.9	2418.8	2452.4	2476.4	2483.6	2490.8	2486.0	2483.6
12.5°	2289.3	2310.9	2349.3	2406.8	2447.6	2474.0	2481.2	2469.2	2452.4	2442.8	2440.4
15°	2308.5	2330.1	2368.5	2428.4	2464.4	2474.0	2457.2	2418.8	2380.5	2358.9	2356.5
17.5°	2334.9	2349.3	2380.5	2433.2	2462.0	2450.0	2416.4	2370.9	2342.1	2325.3	2327.7
20°	2351.7	2351.7	2375.7	2416.4	2440.4	2430.8	2390.0	2339.7	2294.1	2272.5	2265.3
22.5°	2375.7	2363.7	2366.1	2402.0	2435.6	2421.2	2334.9	2246.1	2181.3	2157.3	2154.9
25°	2440.4	2406.8	2385.3	2406.8	2486.0	2368.5	2195.7	2092.5	2032.5	2010.9	2013.3
27.5°	2519.6	2474.0	2428.4	2464.4	2526.8	2248.5	2018.1	1900.5	1864.5	1847.7	1854.9
30°	2598.8	2538.8	2478.8	2608.4	2498.0	2061.3	1790.1	1675.0	1643.8	1631.8	1641.4
32.5°	2745.2	2646.8	2574.8	2800.4	2409.2	1847.7	1543.0	1437.4	1408.6	1394.2	1389.4
35°	2990.0	2865.2	2793.2	2968.4	2284.5	1610.2	1317.4	1243.0	1211.8	1180.6	1175.8
37.5°	3342.7	3191.5	3126.7	3064.4	2109.3	1375.0	1144.6	1094.2	1048.6	1000.7	998.3
40°	3765.0	3568.3	3520.3	3107.5	1866.9	1154.2	1024.6	976.7	919.1	873.5	875.9
42.5°	4252.2	4000.2	3897.0	3095.5	1567.0	1036.6	938.3	885.5	835.1	794.3	791.9
45°	4772.9	4487.3	4249.8	3011.6	1269.4	955.1	885.5	823.1	772.7	727.1	722.3
47.5°	5348.8	5029.7	4576.1	2848.4	1048.6	897.5	854.3	765.5	719.9	691.1	691.1
50°	5929.5	5548.0	4876.1	2601.2	919.1	854.3	808.7	734.3	698.3	674.3	674.3
52.5°	6426.3	6087.9	5123.2	2306.1	837.5	818.3	777.5	719.9	681.5	659.9	657.5
55°	6908.6	6589.4	5344.0	2013.3	770.3	770.3	770.3	707.9	664.7	645.5	643.1
57.5°	7388.5	7117.4	5574.4	1821.3	710.3	729.5	755.9	693.5	650.3	633.5	631.1
60°	7930.8	7750.9	5840.7	1687.0	657.5	686.3	736.7	676.7	626.3	611.9	609.5
62.5°	8506.8	8506.8	6083.1	1497.4	609.5	650.3	707.9	655.1	604.7	592.7	590.3
65°	8957.9	9152.3	6239.1	1214.2	561.5	614.3	674.3	626.3	575.9	573.5	568.7
67.5°	9010.7	9315.4	6140.7	916.7	518.3	575.9	640.7	595.1	547.1	547.1	539.9
70°	8631.5	8941.1	5833.5	686.3	487.1	537.5	597.5	556.7	511.1	515.9	503.9
72.5°	7998.0	8074.8	5070.5	542.3	451.1	496.7	544.7	513.5	472.7	472.7	455.9
75°	7163.0	6735.8	3683.5	453.5	407.9	448.7	491.9	465.5	429.5	417.5	407.9
77.5°	5701.6	4880.9	2140.5	391.1	371.9	403.1	431.9	412.7	381.5	355.1	355.1
80°	3474.7	2860.4	945.5	338.4	328.8	352.7	371.9	350.3	324.0	297.6	290.4
82.5°	1322.2	1103.8	458.3	290.4	288.0	302.4	316.8	295.2	276.0	264.0	228.0
85°	362.3	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)