

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: P399225

Luminaire Tested: **ARCH-L-PA3-110-750-U-T4W-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399225  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)  
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-T4W-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5000K, 485mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

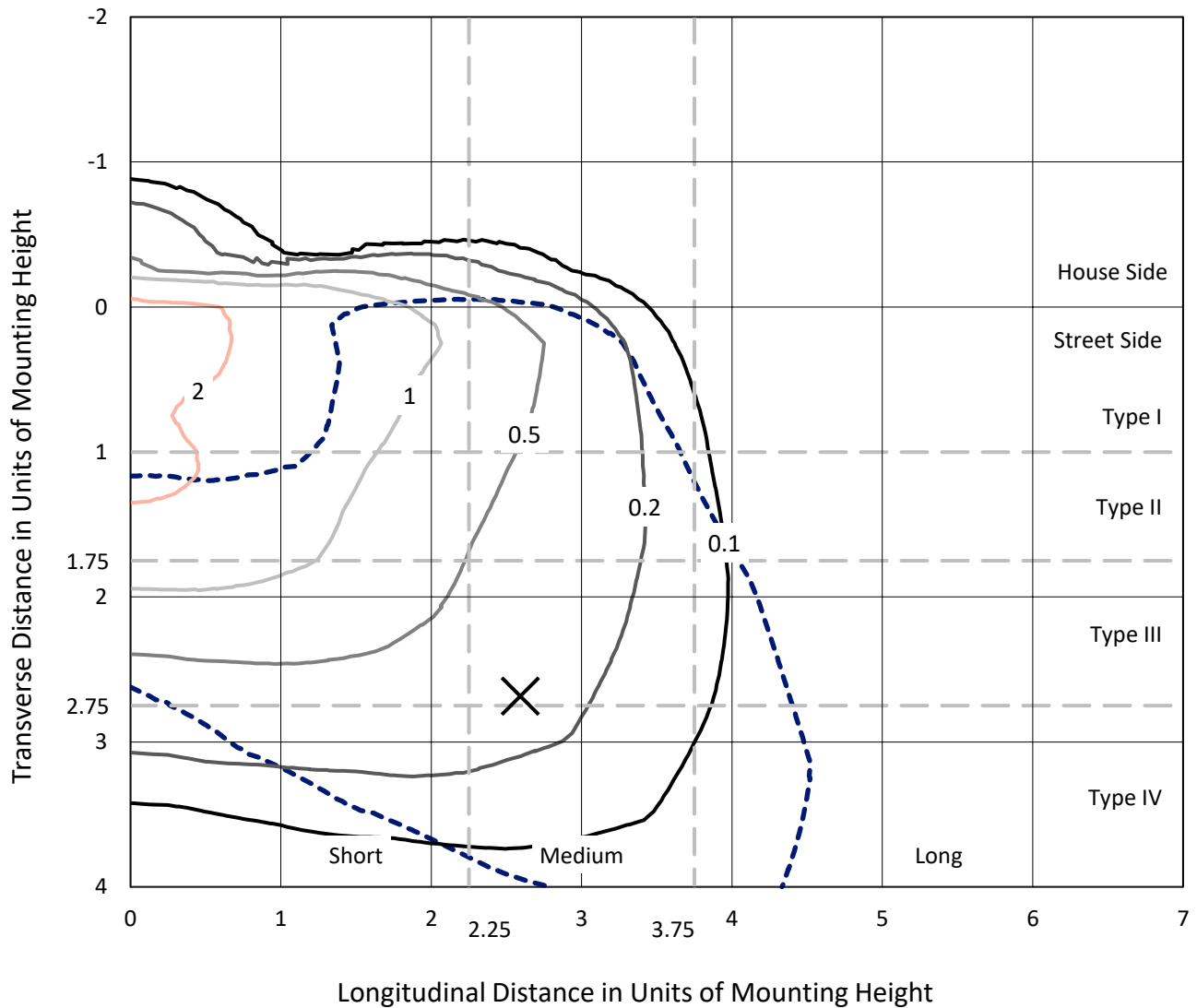
Lumens per Lamp: N/A  
Luminaire Lumens: 13182 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): 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

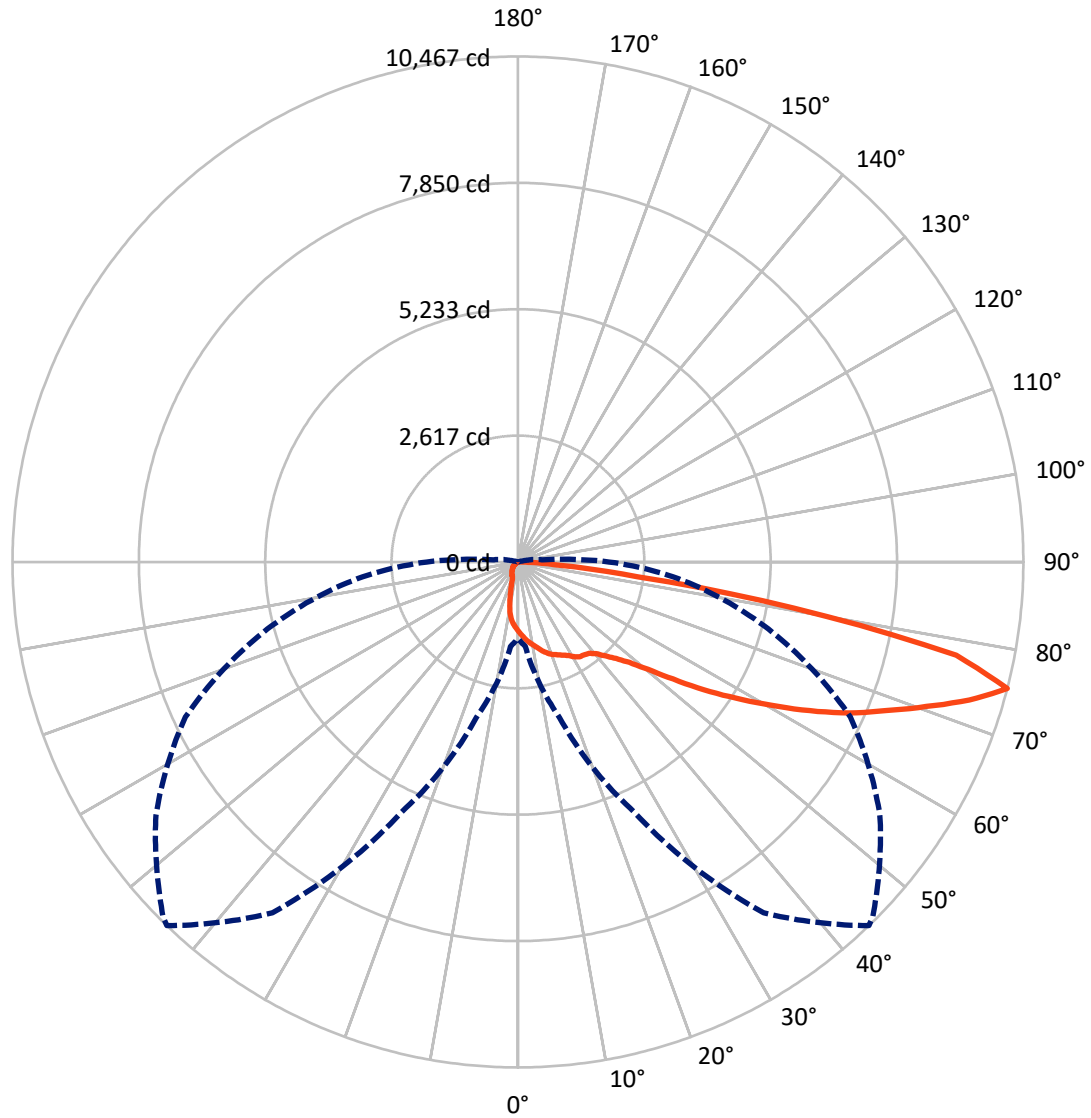
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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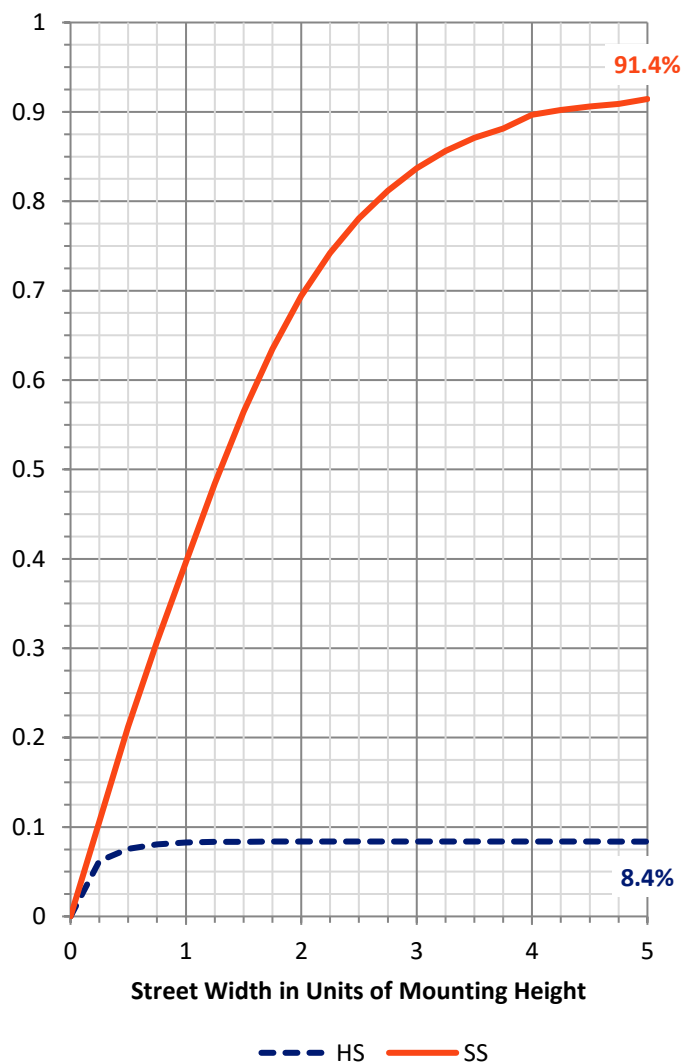
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1111.7	0.0	1111.7
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	12070.3	0.0	12070.3
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	13182.0	0.0	13182.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.3	1.0
10°-20°	379.2	2.9
20°-30°	625.7	4.7
30°-40°	908.2	6.9
40°-50°	1476.3	11.2
50°-60°	2602.5	19.7
60°-70°	3740.4	28.4
70°-80°	2995.2	22.7
80°-90°	319.1	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°	13182.0	100.0
0°-180°	13182.0	100.0

**Coefficient of Utilization**



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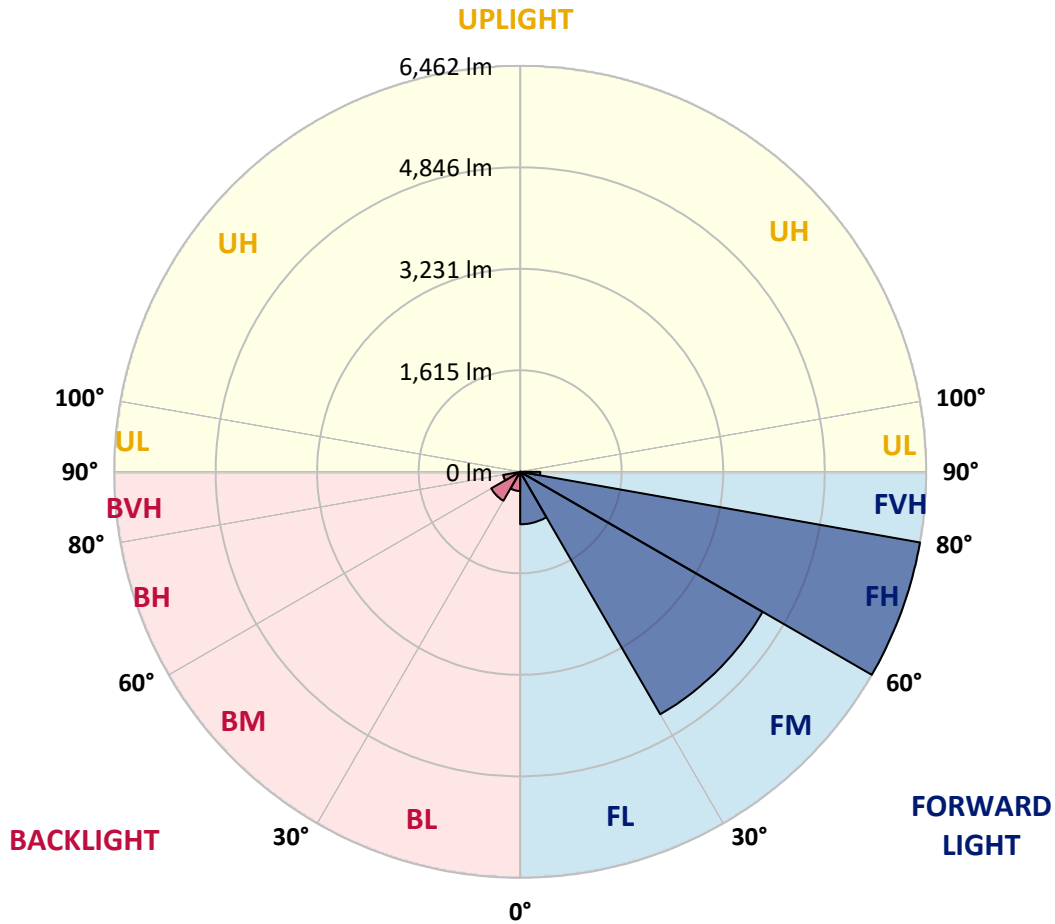
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	834.8	6.3			
FM (30°-60°)	4455.6	33.8			
FH (60°-80°)	6461.6	49.0			G3/7500
FVH (80°-90°)	318.3	2.4			G3/500
BL (0°-30°)	305.4	2.3	B1/500		
BM (30°-60°)	531.4	4.0	B1/1000		
BH (60°-80°)	274.1	2.1	B1/500		G1/500
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1434.8	1434.8	1434.8	1434.8	1434.8	1434.8	1434.8	1434.8	1434.8	1434.8	1434.8
2.5°	1563.7	1561.3	1554.0	1541.8	1529.7	1517.5	1515.1	1495.6	1473.7	1456.7	1442.1
5°	1702.3	1699.9	1687.7	1661.0	1634.2	1602.6	1600.2	1554.0	1512.6	1466.4	1427.5
7.5°	1845.8	1840.9	1819.0	1777.7	1731.5	1682.9	1678.0	1609.9	1549.1	1488.3	1432.4
10°	1957.7	1952.8	1921.2	1872.5	1809.3	1748.5	1741.2	1670.7	1609.9	1532.1	1456.7
12.5°	2067.1	2057.4	2016.0	1962.5	1884.7	1826.3	1819.0	1746.1	1673.1	1592.9	1500.5
15°	2169.2	2157.1	2118.2	2050.1	1967.4	1911.5	1906.6	1828.8	1753.4	1661.0	1558.8
17.5°	2239.8	2234.9	2188.7	2113.3	2033.1	1986.8	1982.0	1901.7	1826.3	1729.1	1619.6
20°	2276.2	2276.2	2232.5	2149.8	2076.8	2045.2	2037.9	1962.5	1889.6	1797.2	1682.9
22.5°	2283.5	2290.8	2256.8	2166.8	2113.3	2086.6	2081.7	2016.0	1945.5	1860.4	1753.4
25°	2298.1	2298.1	2281.1	2183.8	2144.9	2137.6	2135.2	2076.8	2013.6	1928.5	1823.9
27.5°	2315.2	2315.2	2303.0	2208.1	2193.6	2191.1	2188.7	2161.9	2110.9	2011.2	1906.6
30°	2358.9	2361.4	2351.6	2256.8	2247.1	2273.8	2278.7	2264.1	2200.9	2076.8	1991.7
32.5°	2468.4	2446.5	2419.7	2290.8	2307.9	2341.9	2344.3	2315.2	2247.1	2147.4	2093.9
35°	2743.2	2614.3	2492.7	2320.0	2327.3	2361.4	2366.2	2363.8	2322.4	2237.3	2210.6
37.5°	2998.5	2816.1	2643.5	2388.1	2363.8	2400.3	2410.0	2451.3	2419.7	2361.4	2368.7
40°	3146.9	3076.3	2954.7	2575.4	2436.7	2492.7	2502.4	2565.6	2553.5	2529.2	2575.4
42.5°	3604.0	3608.9	3477.6	2855.0	2570.5	2660.5	2672.6	2723.7	2740.7	2752.9	2864.8
45°	4134.2	4151.2	4119.6	3358.4	2823.4	2852.6	2869.6	2937.7	3000.9	3078.8	3283.0
47.5°	4771.4	4756.8	4640.0	3973.7	3263.6	3100.7	3112.8	3244.1	3353.6	3523.8	3815.6
50°	5335.6	5372.0	5150.7	4547.6	3883.7	3492.2	3480.0	3608.9	3805.9	4044.2	4411.4
52.5°	5904.6	5851.1	5552.0	5116.7	4618.1	4024.8	3988.3	4058.8	4336.0	4618.1	4995.1
55°	6055.4	6060.3	5958.1	5739.2	5231.0	4671.6	4610.8	4606.0	4951.3	5143.4	5607.9
57.5°	6352.1	6364.2	6388.6	6432.3	6191.6	5318.5	5255.3	5187.2	5522.8	5634.7	6223.2
60°	6653.6	6668.2	6816.6	7052.5	6892.0	6016.5	5948.4	5787.9	5975.1	6125.9	6870.1
62.5°	6614.7	6716.9	7147.3	7616.7	7597.2	6782.5	6697.4	6310.7	6429.9	6561.2	7463.4
65°	5972.7	6082.1	7050.0	7772.3	8304.9	7538.8	7400.2	6850.6	6857.9	7016.0	8034.9
67.5°	5398.8	5517.9	6442.1	7706.6	8771.8	8217.3	8073.9	7392.9	7278.6	7541.3	8341.4
70°	5068.0	5187.2	5958.1	7502.4	8903.1	8968.8	8844.8	8013.1	7779.6	8020.3	7998.5
72.5°	3966.4	4153.7	5340.4	7113.3	9044.2	9773.7	9676.5	8798.6	8205.2	7519.4	6089.4
75°	1580.7	1753.4	3334.1	5724.7	8866.6	10466.8	10391.4	9151.2	7594.8	5369.6	3117.7
77.5°	476.6	510.7	926.5	2830.7	6500.4	9280.1	9255.7	7694.5	5374.5	2492.7	851.2
80°	158.1	175.1	284.5	780.6	2966.9	5797.6	5907.0	4902.7	2441.6	571.5	172.7
82.5°	65.7	73.0	143.5	313.7	1050.6	2497.5	2461.1	2196.0	851.2	355.1	63.2
85°	17.0	21.9	65.7	180.0	384.2	860.9	904.7	736.9	481.5	294.3	19.5
87.5°	0.0	0.0	31.6	73.0	172.7	260.2	272.4	223.7	272.4	221.3	9.7
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°	1434.8	1434.8	1434.8	1434.8	1434.8	1434.8	1434.8	1434.8	1434.8	1434.8	1434.8
2.5°	1429.9	1417.8	1395.9	1381.3	1361.9	1357.0	1347.3	1335.1	1332.7	1320.5	1322.9
5°	1405.6	1386.2	1347.3	1320.5	1288.9	1279.2	1262.1	1250.0	1240.3	1223.2	1225.7
7.5°	1400.8	1371.6	1318.1	1267.0	1215.9	1179.5	1128.4	1087.1	1053.0	1016.5	1023.8
10°	1417.8	1381.3	1305.9	1235.4	1143.0	1026.3	892.5	805.0	761.2	717.4	722.3
12.5°	1451.8	1408.1	1310.8	1203.8	1016.5	817.1	632.3	513.1	481.5	462.1	464.5
15°	1502.9	1449.4	1325.4	1143.0	846.3	590.9	420.7	369.6	381.8	389.1	389.1
17.5°	1556.4	1495.6	1337.5	1033.6	654.2	413.4	342.9	338.0	355.1	372.1	372.1
20°	1622.1	1544.2	1340.0	894.9	471.8	335.6	323.4	323.4	335.6	355.1	355.1
22.5°	1685.3	1597.7	1318.1	736.9	359.9	311.3	311.3	311.3	318.6	338.0	340.5
25°	1760.7	1663.4	1271.9	569.1	308.8	296.7	296.7	299.1	304.0	321.0	323.4
27.5°	1840.9	1731.5	1194.1	415.9	282.1	279.7	282.1	284.5	287.0	304.0	308.8
30°	1933.3	1806.9	1094.3	311.3	257.8	257.8	265.1	269.9	269.9	284.5	289.4
32.5°	2040.3	1906.6	975.2	257.8	233.5	231.0	243.2	250.5	250.5	262.6	267.5
35°	2174.1	2008.7	831.7	228.6	214.0	209.1	214.0	226.2	231.0	240.8	243.2
37.5°	2351.6	2130.3	678.5	211.6	199.4	189.7	189.7	192.1	201.8	211.6	214.0
40°	2577.8	2264.1	527.7	199.4	184.8	175.1	167.8	165.4	162.9	170.2	175.1
42.5°	2862.3	2414.9	394.0	187.3	172.7	158.1	148.3	138.6	126.5	124.0	126.5
45°	3227.1	2599.7	291.8	177.5	165.4	143.5	126.5	109.4	87.5	80.3	82.7
47.5°	3657.6	2791.8	228.6	167.8	160.5	126.5	104.6	75.4	53.5	48.6	51.1
50°	4114.7	2976.6	194.6	155.6	150.8	109.4	75.4	46.2	31.6	31.6	34.0
52.5°	4503.8	3081.2	177.5	145.9	136.2	90.0	48.6	26.8	19.5	19.5	21.9
55°	4880.8	3137.1	165.4	136.2	116.7	63.2	26.8	17.0	12.2	12.2	12.2
57.5°	5269.9	3161.4	150.8	124.0	92.4	38.9	14.6	9.7	7.3	7.3	7.3
60°	5615.2	3115.2	128.9	102.1	60.8	19.5	7.3	7.3	4.9	2.4	2.4
62.5°	5904.6	3027.7	90.0	73.0	36.5	9.7	4.9	2.4	0.0	0.0	0.0
65°	6082.1	2886.6	58.4	48.6	21.9	7.3	2.4	0.0	0.0	0.0	0.0
67.5°	6031.1	2621.6	36.5	31.6	9.7	4.9	2.4	0.0	0.0	0.0	0.0
70°	5442.6	2149.8	26.8	19.5	7.3	2.4	0.0	0.0	0.0	0.0	0.0
72.5°	3922.6	1454.3	19.5	12.2	4.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	1887.1	518.0	12.2	9.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	462.1	114.3	7.3	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	102.1	21.9	4.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	34.0	9.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.2	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.3	2.4	0.0	0.0	0.0	0.0	0.0	0.0	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)