

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: P399360

Luminaire Tested: **ARCH-L-PA3-130-740-U-T4W-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399360  
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-PA3-130-740-U-T4W-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 4000K, 575mA 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: 15229 lumens  
Efficiency: N/A  
Efficacy: 114.5 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

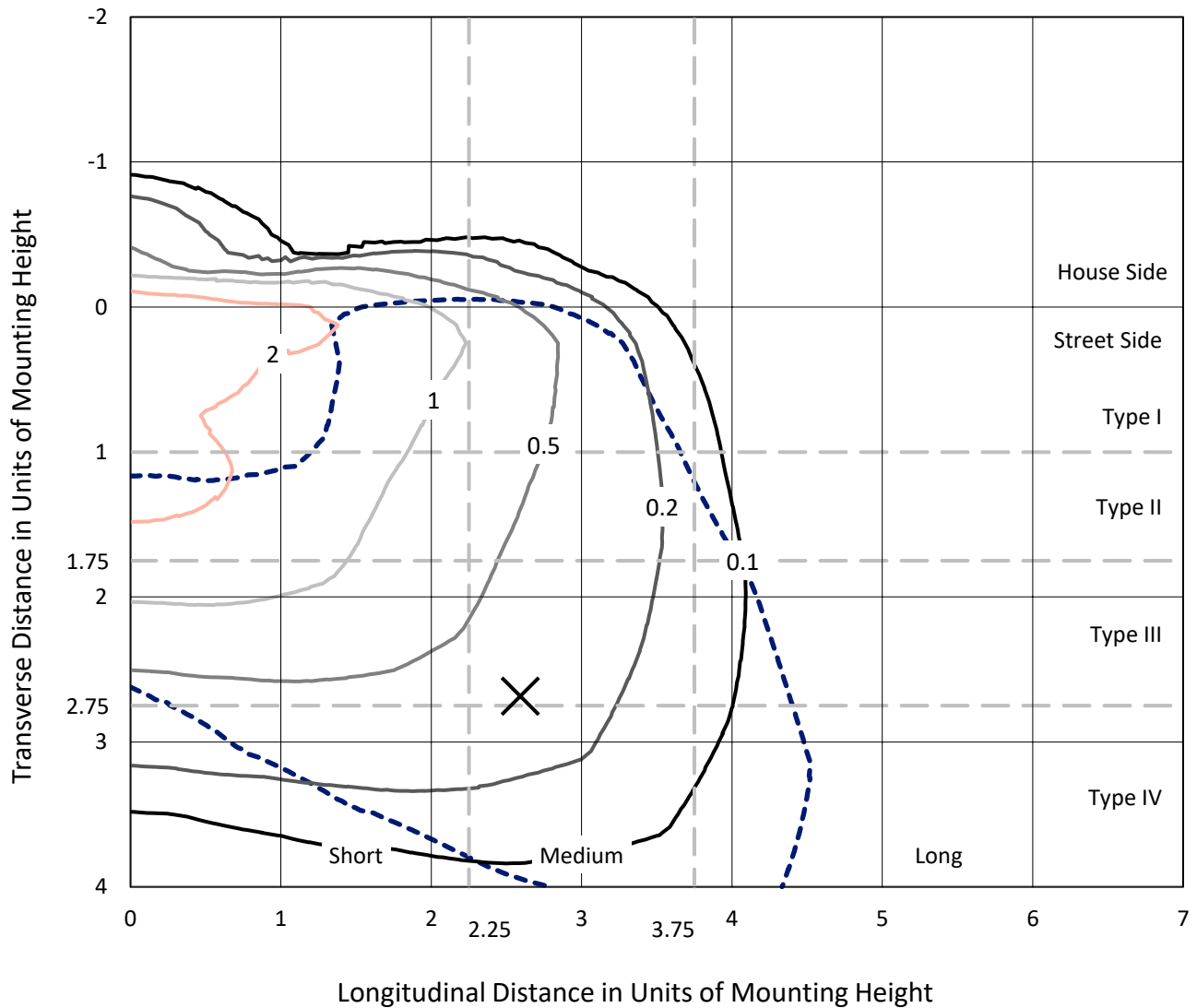
Input Watts (W): 133  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

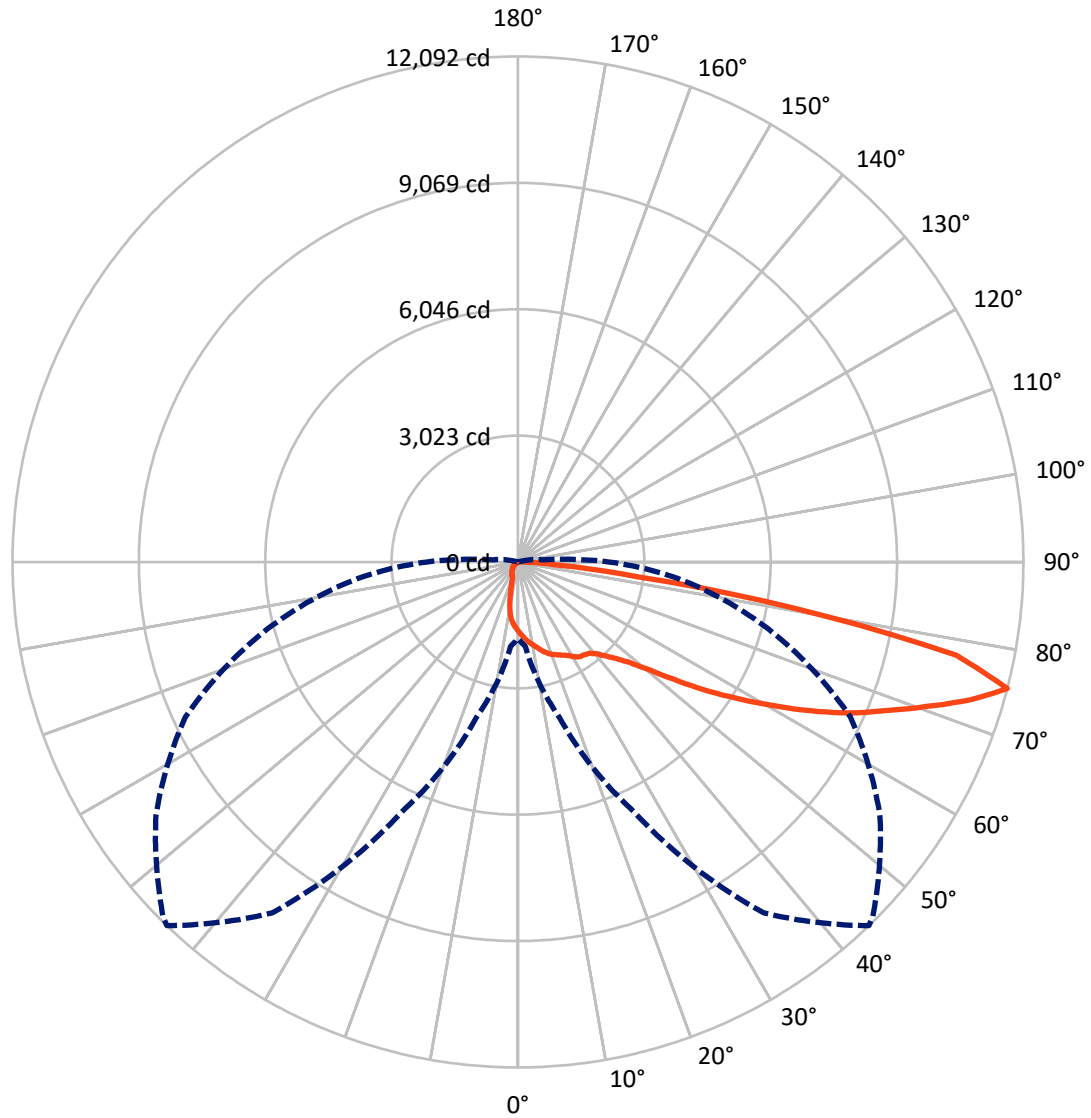
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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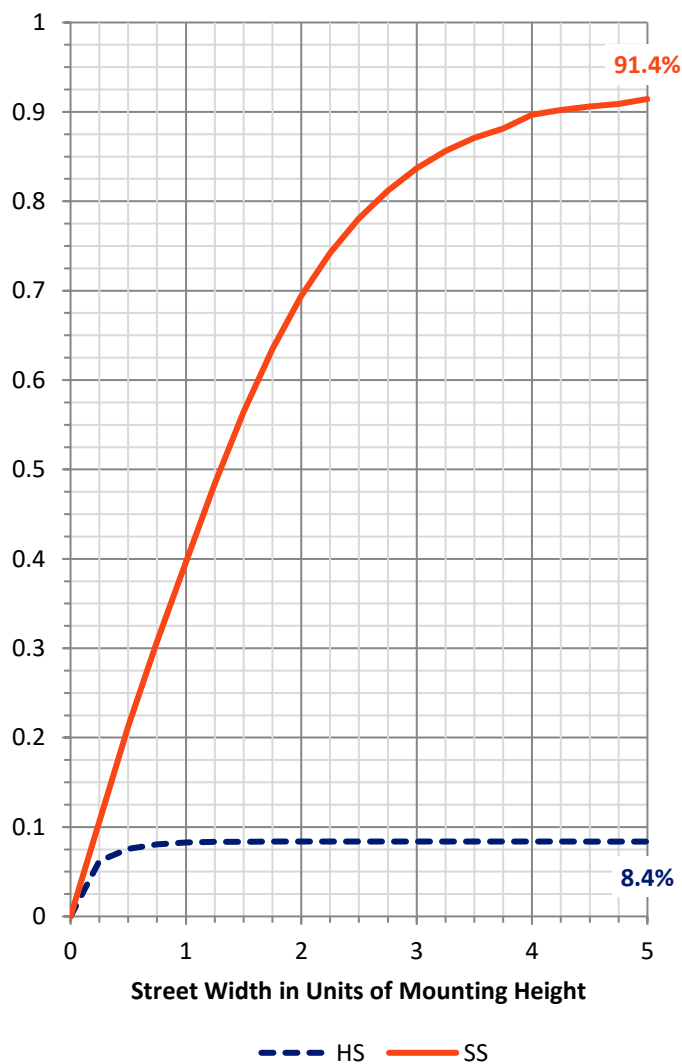
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1284.3	0.0	1284.3
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	13944.7	0.0	13944.7
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	15229.0	0.0	15229.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.3	1.0
10°-20°	438.0	2.9
20°-30°	722.9	4.7
30°-40°	1049.2	6.9
40°-50°	1705.6	11.2
50°-60°	3006.7	19.7
60°-70°	4321.2	28.4
70°-80°	3460.3	22.7
80°-90°	368.7	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°	15229.0	100.0
0°-180°	15229.0	100.0

**Coefficient of Utilization**



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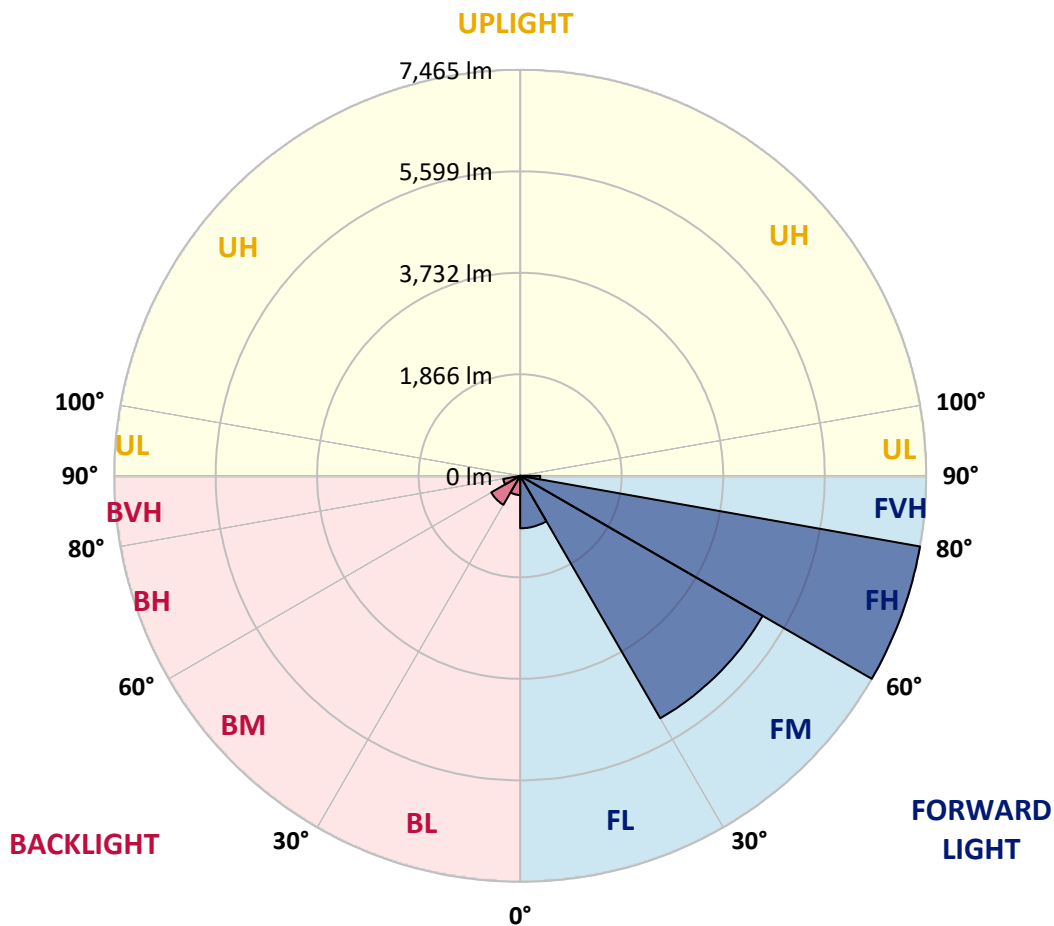
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	964.4	6.3			
FM (30°-60°)	5147.5	33.8			
FH (60°-80°)	7465.0	49.0			G3/7500
FVH (80°-90°)	367.7	2.4			G3/500
BL (0°-30°)	352.8	2.3	B1/500		
BM (30°-60°)	613.9	4.0	B1/1000		
BH (60°-80°)	316.6	2.1	B1/500		G1/500
BVH (80°-90°)	0.9	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°	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6
2.5°	1806.5	1803.7	1795.3	1781.2	1767.2	1753.1	1750.3	1727.9	1702.6	1682.9	1666.0
5°	1966.7	1963.9	1949.8	1918.9	1888.0	1851.5	1848.7	1795.3	1747.5	1694.1	1649.2
7.5°	2132.4	2126.8	2101.5	2053.8	2000.4	1944.2	1938.6	1859.9	1789.7	1719.4	1654.8
10°	2261.7	2256.0	2219.5	2163.3	2090.3	2020.0	2011.6	1930.1	1859.9	1770.0	1682.9
12.5°	2388.1	2376.9	2329.1	2267.3	2177.4	2110.0	2101.5	2017.2	1933.0	1840.2	1733.5
15°	2506.1	2492.0	2447.1	2368.4	2272.9	2208.3	2202.7	2112.8	2025.7	1918.9	1800.9
17.5°	2587.6	2582.0	2528.6	2441.5	2348.8	2295.4	2289.8	2197.0	2110.0	1997.6	1871.1
20°	2629.7	2629.7	2579.1	2483.6	2399.3	2362.8	2354.4	2267.3	2183.0	2076.2	1944.2
22.5°	2638.1	2646.6	2607.2	2503.3	2441.5	2410.6	2405.0	2329.1	2247.6	2149.3	2025.7
25°	2655.0	2655.0	2635.3	2523.0	2478.0	2469.6	2466.8	2399.3	2326.3	2228.0	2107.1
27.5°	2674.7	2674.7	2660.6	2551.0	2534.2	2531.4	2528.6	2497.7	2438.7	2323.5	2202.7
30°	2725.2	2728.0	2716.8	2607.2	2596.0	2626.9	2632.5	2615.7	2542.6	2399.3	2301.0
32.5°	2851.7	2826.4	2795.5	2646.6	2666.2	2705.6	2708.4	2674.7	2596.0	2480.8	2419.0
35°	3169.1	3020.2	2879.8	2680.3	2688.7	2728.0	2733.7	2730.9	2683.1	2584.8	2553.9
37.5°	3464.1	3253.4	3054.0	2759.0	2730.9	2773.0	2784.2	2832.0	2795.5	2728.0	2736.5
40°	3635.5	3554.0	3413.6	2975.3	2815.1	2879.8	2891.0	2964.0	2950.0	2921.9	2975.3
42.5°	4163.7	4169.3	4017.6	3298.4	2969.7	3073.6	3087.7	3146.7	3166.3	3180.4	3309.6
45°	4776.2	4795.9	4759.3	3880.0	3261.9	3295.6	3315.2	3393.9	3467.0	3556.9	3792.9
47.5°	5512.3	5495.4	5360.6	4590.8	3770.4	3582.1	3596.2	3747.9	3874.3	4071.0	4408.1
50°	6164.1	6206.2	5950.6	5253.8	4486.8	4034.5	4020.4	4169.3	4396.9	4672.2	5096.5
52.5°	6821.5	6759.7	6414.1	5911.2	5335.3	4649.8	4607.6	4689.1	5009.4	5335.3	5770.8
55°	6995.7	7001.3	6883.3	6630.5	6043.3	5397.1	5326.9	5321.2	5720.2	5942.1	6478.8
57.5°	7338.5	7352.5	7380.6	7431.2	7153.0	6144.4	6071.4	5992.7	6380.4	6509.7	7189.6
60°	7686.9	7703.7	7875.1	8147.6	7962.2	6950.8	6872.1	6686.7	6903.0	7077.2	7936.9
62.5°	7641.9	7759.9	8257.2	8799.4	8777.0	7835.8	7737.4	7290.7	7428.4	7580.1	8622.4
65°	6900.2	7026.6	8144.8	8979.2	9594.5	8709.5	8549.4	7914.4	7922.9	8105.5	9282.7
67.5°	6237.1	6374.8	7442.4	8903.4	10134.0	9493.4	9327.6	8541.0	8408.9	8712.3	9636.7
70°	5855.0	5992.7	6883.3	8667.4	10285.7	10361.5	10218.2	9257.4	8987.7	9265.8	9240.5
72.5°	4582.3	4798.7	6169.7	8217.9	10448.6	11291.5	11179.1	10164.9	9479.3	8687.0	7035.0
75°	1826.2	2025.7	3851.9	6613.6	10243.5	12092.2	12005.1	10572.2	8774.1	6203.4	3601.8
77.5°	550.7	590.0	1070.4	3270.3	7509.9	10721.1	10693.0	8889.3	6209.0	2879.8	983.3
80°	182.6	202.3	328.7	901.9	3427.6	6697.9	6824.3	5664.0	2820.8	660.2	199.5
82.5°	75.9	84.3	165.8	362.4	1213.7	2885.4	2843.2	2537.0	983.3	410.2	73.0
85°	19.7	25.3	75.9	207.9	443.9	994.6	1045.1	851.3	556.3	340.0	22.5
87.5°	0.0	0.0	36.5	84.3	199.5	300.6	314.7	258.5	314.7	255.7	11.2
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°	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6
2.5°	1652.0	1638.0	1612.7	1595.8	1573.3	1567.7	1556.5	1542.4	1539.6	1525.6	1528.4
5°	1623.9	1601.4	1556.5	1525.6	1489.0	1477.8	1458.1	1444.1	1432.9	1413.2	1416.0
7.5°	1618.3	1584.6	1522.8	1463.8	1404.8	1362.6	1303.6	1255.9	1216.5	1174.4	1182.8
10°	1638.0	1595.8	1508.7	1427.2	1320.5	1185.6	1031.1	930.0	879.4	828.8	834.4
12.5°	1677.3	1626.7	1514.3	1390.7	1174.4	944.0	730.5	592.8	556.3	533.8	536.6
15°	1736.3	1674.5	1531.2	1320.5	977.7	682.7	486.0	427.0	441.1	449.5	449.5
17.5°	1798.1	1727.9	1545.2	1194.0	755.8	477.6	396.1	390.5	410.2	429.9	429.9
20°	1874.0	1784.0	1548.0	1033.9	545.0	387.7	373.7	373.7	387.7	410.2	410.2
22.5°	1947.0	1845.9	1522.8	851.3	415.8	359.6	359.6	359.6	368.0	390.5	393.3
25°	2034.1	1921.7	1469.4	657.4	356.8	342.8	342.8	345.6	351.2	370.9	373.7
27.5°	2126.8	2000.4	1379.5	480.4	325.9	323.1	325.9	328.7	331.5	351.2	356.8
30°	2233.6	2087.5	1264.3	359.6	297.8	297.8	306.2	311.9	311.9	328.7	334.3
32.5°	2357.2	2202.7	1126.6	297.8	269.7	266.9	281.0	289.4	289.4	303.4	309.0
35°	2511.7	2320.7	960.9	264.1	247.2	241.6	247.2	261.3	266.9	278.1	281.0
37.5°	2716.8	2461.1	783.9	244.4	230.4	219.1	219.1	222.0	233.2	244.4	247.2
40°	2978.1	2615.7	609.7	230.4	213.5	202.3	193.9	191.0	188.2	196.7	202.3
42.5°	3306.8	2789.9	455.1	216.3	199.5	182.6	171.4	160.1	146.1	143.3	146.1
45°	3728.2	3003.4	337.1	205.1	191.0	165.8	146.1	126.4	101.1	92.7	95.5
47.5°	4225.5	3225.3	264.1	193.9	185.4	146.1	120.8	87.1	61.8	56.2	59.0
50°	4753.7	3438.9	224.8	179.8	174.2	126.4	87.1	53.4	36.5	36.5	39.3
52.5°	5203.2	3559.7	205.1	168.6	157.3	104.0	56.2	30.9	22.5	22.5	25.3
55°	5638.7	3624.3	191.0	157.3	134.9	73.0	30.9	19.7	14.0	14.0	14.0
57.5°	6088.2	3652.4	174.2	143.3	106.8	45.0	16.9	11.2	8.4	8.4	8.4
60°	6487.2	3599.0	148.9	118.0	70.2	22.5	8.4	8.4	5.6	2.8	2.8
62.5°	6821.5	3497.9	104.0	84.3	42.1	11.2	5.6	2.8	0.0	0.0	0.0
65°	7026.6	3334.9	67.4	56.2	25.3	8.4	2.8	0.0	0.0	0.0	0.0
67.5°	6967.6	3028.7	42.1	36.5	11.2	5.6	2.8	0.0	0.0	0.0	0.0
70°	6287.7	2483.6	30.9	22.5	8.4	2.8	0.0	0.0	0.0	0.0	0.0
72.5°	4531.8	1680.1	22.5	14.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	2180.2	598.4	14.0	11.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	533.8	132.0	8.4	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	118.0	25.3	5.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	39.3	11.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.4	2.8	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)