

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: P399196

Luminaire Tested: **ARCH-L-PA3-110-727-U-T3-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399196  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-110-727-U-T3-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 485mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11168 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

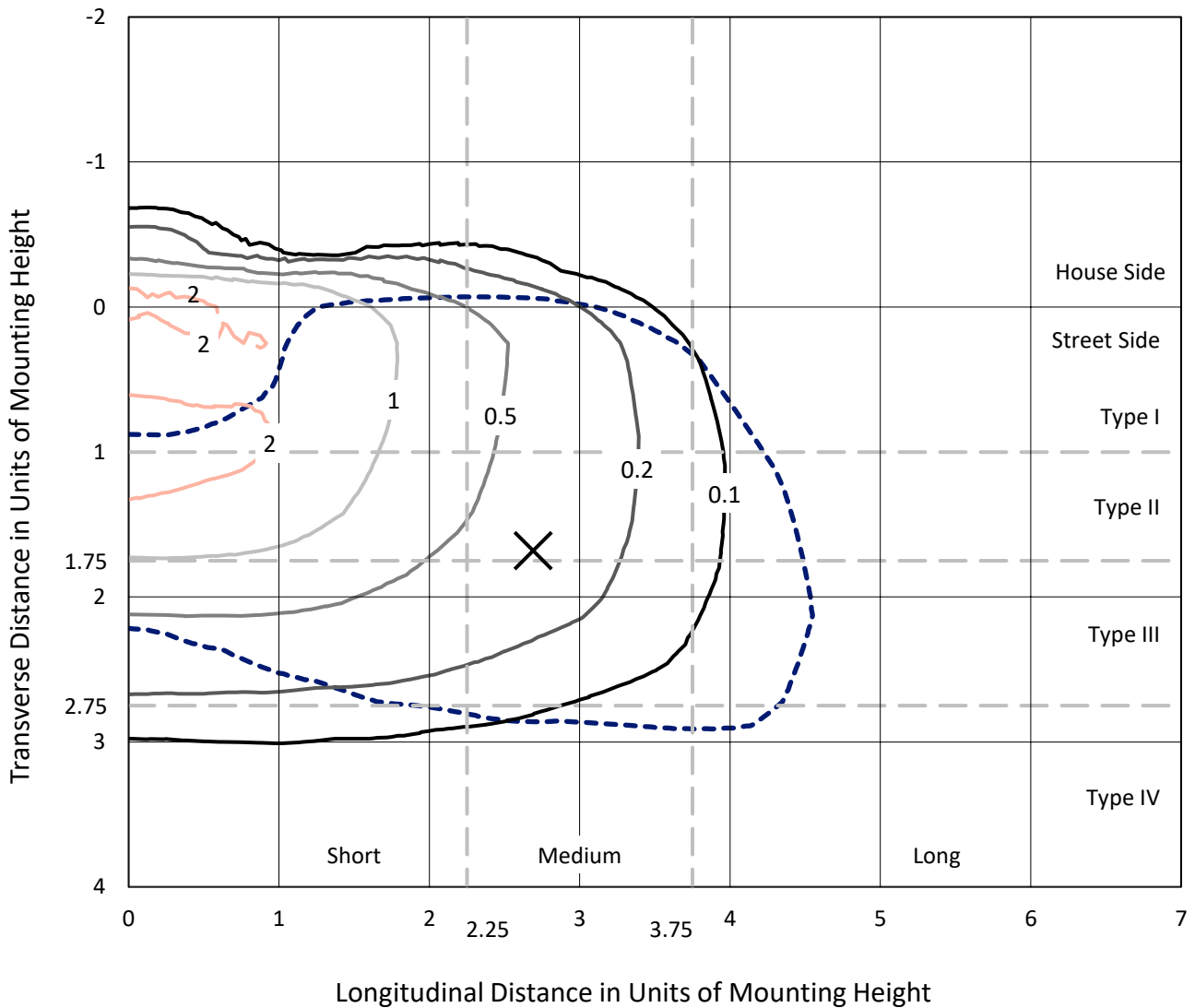
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

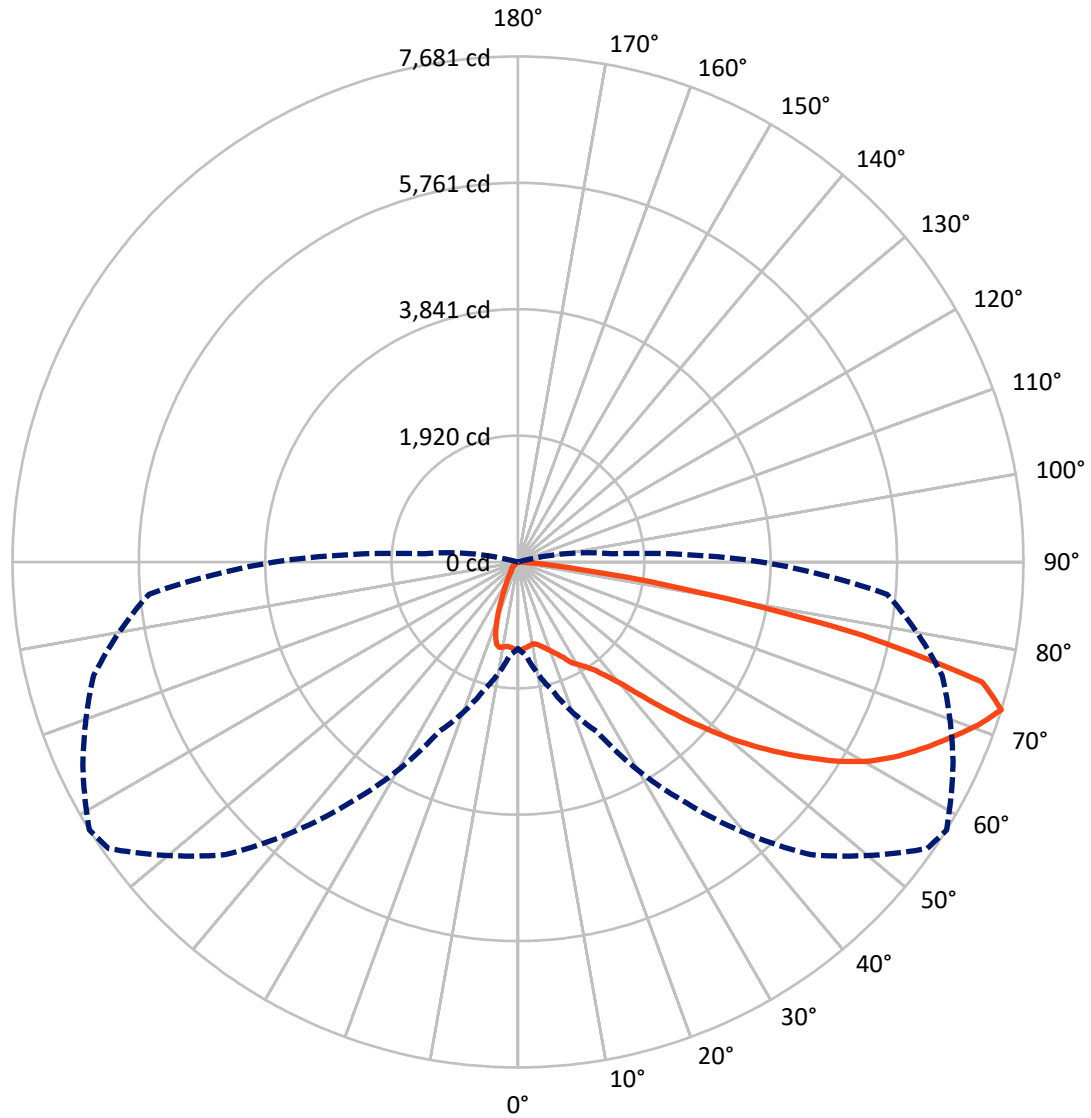
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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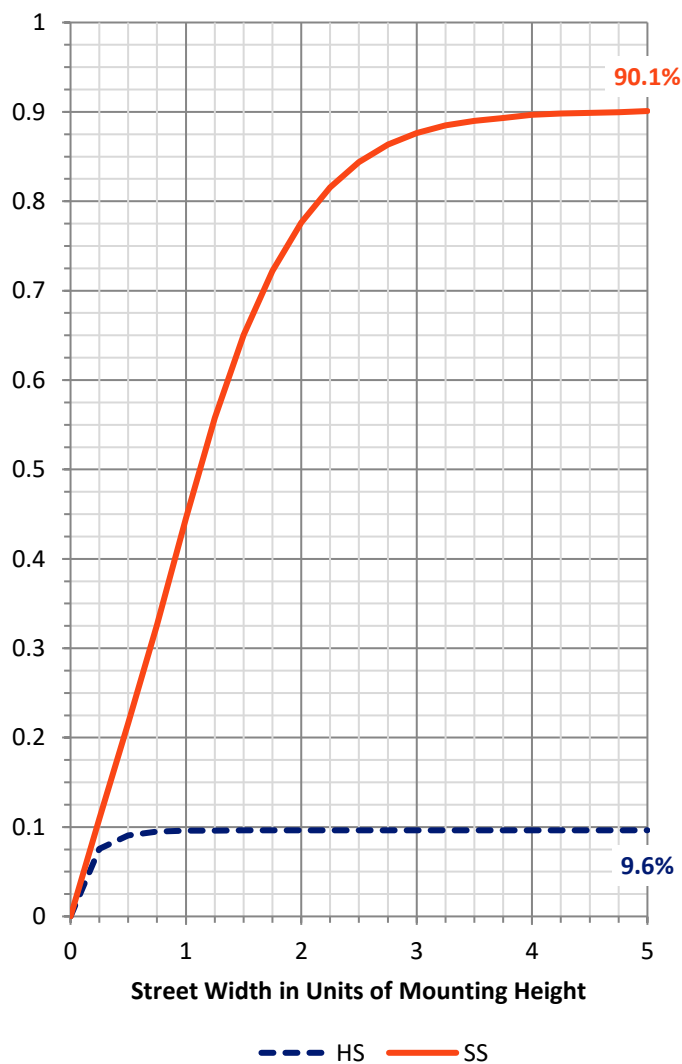
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1086.0	0.0	1086.0
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	10082.0	0.0	10082.0
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	11168.0	0.0	11168.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.0	1.1
10°-20°	320.3	2.9
20°-30°	503.2	4.5
30°-40°	867.8	7.8
40°-50°	1651.1	14.8
50°-60°	2614.9	23.4
60°-70°	3051.2	27.3
70°-80°	1911.0	17.1
80°-90°	125.4	1.1
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°	11168.0	100.0
0°-180°	11168.0	100.0

**Coefficient of Utilization**



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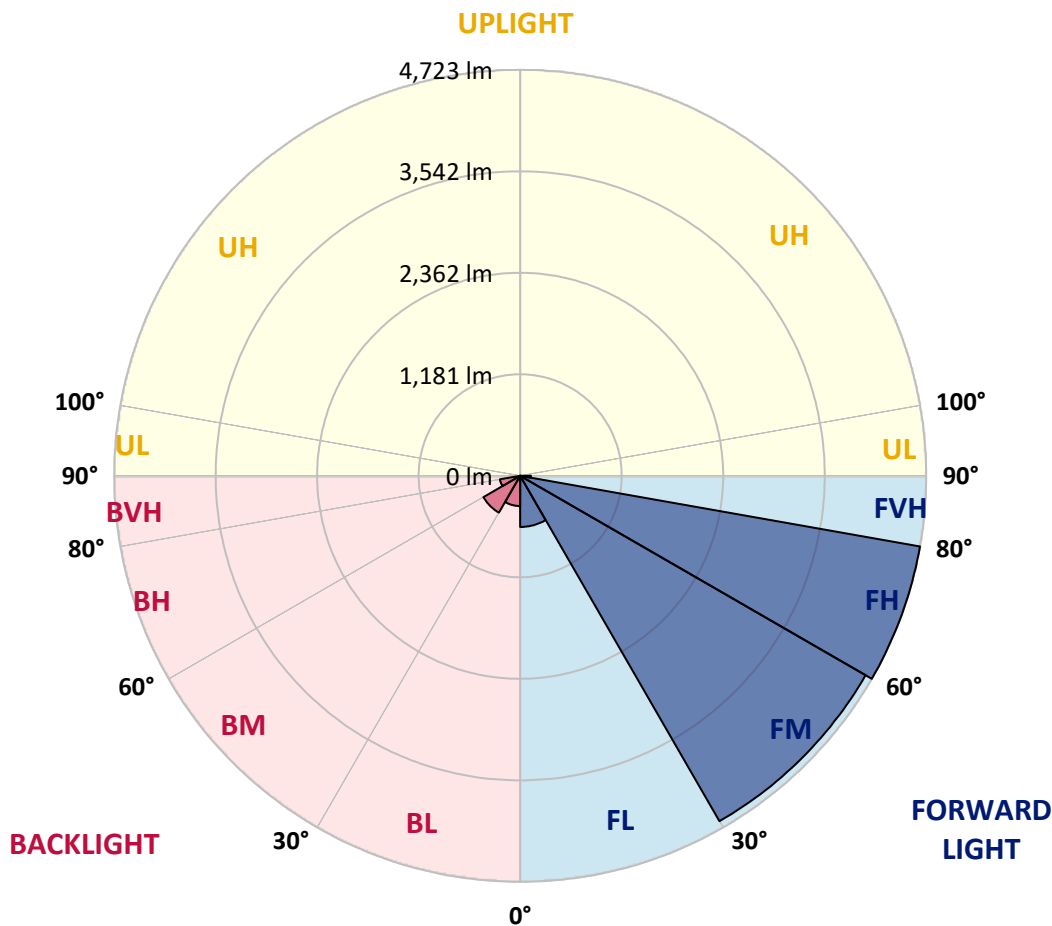
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	594.8	5.3			
FM (30°-60°)	4639.7	41.5			
FH (60°-80°)	4723.3	42.3			G2/5000
FVH (80°-90°)	124.2	1.1			G2/225
BL (0°-30°)	351.7	3.1	B1/500		
BM (30°-60°)	494.2	4.4	B1/1000		
BH (60°-80°)	239.0	2.1	B1/500		G1/500
BVH (80°-90°)	1.2	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-G2**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1
2.5°	1334.1	1328.1	1326.1	1324.1	1326.1	1328.1	1322.1	1328.1	1324.1	1326.1	1330.1
5°	1286.2	1280.2	1278.2	1280.2	1286.2	1296.2	1300.1	1306.1	1306.1	1312.1	1314.1
7.5°	1232.2	1228.3	1226.3	1230.2	1242.2	1264.2	1276.2	1284.2	1292.2	1304.1	1316.1
10°	1202.3	1200.3	1198.3	1204.3	1216.3	1236.2	1252.2	1264.2	1294.2	1328.1	1350.1
12.5°	1182.3	1182.3	1186.3	1198.3	1214.3	1230.2	1268.2	1284.2	1330.1	1382.0	1412.0
15°	1166.3	1166.3	1172.3	1194.3	1216.3	1254.2	1310.1	1328.1	1382.0	1445.9	1485.9
17.5°	1154.4	1158.4	1162.3	1184.3	1226.3	1290.2	1356.1	1382.0	1447.9	1517.8	1561.8
20°	1156.4	1160.3	1162.3	1184.3	1244.2	1332.1	1416.0	1445.9	1521.8	1595.7	1639.7
22.5°	1168.3	1174.3	1176.3	1206.3	1276.2	1376.0	1483.9	1517.8	1599.7	1677.6	1711.6
25°	1218.3	1222.3	1210.3	1236.2	1322.1	1443.9	1571.8	1607.7	1689.6	1761.5	1789.5
27.5°	1388.0	1392.0	1326.1	1296.2	1358.1	1499.9	1679.6	1729.5	1831.4	1879.3	1883.3
30°	1755.5	1759.5	1629.7	1487.9	1443.9	1547.8	1739.5	1809.4	1941.2	1995.2	1971.2
32.5°	2228.8	2224.8	2047.1	1837.4	1647.7	1631.7	1825.4	1899.3	2043.1	2095.0	2077.0
35°	2704.1	2710.1	2558.4	2242.8	1971.2	1789.5	1935.2	2021.1	2194.9	2268.8	2236.8
37.5°	3029.7	3069.6	3003.7	2662.2	2368.6	2081.0	2113.0	2204.9	2422.6	2522.4	2454.5
40°	3489.0	3479.0	3319.3	3067.6	2808.0	2512.4	2400.6	2444.5	2694.2	2828.0	2722.1
42.5°	4106.2	4086.2	3814.6	3568.9	3279.3	3037.7	2810.0	2802.0	3005.7	3161.5	3007.7
45°	4665.4	4635.4	4449.7	4212.0	3894.5	3616.9	3309.3	3239.4	3381.2	3513.0	3333.3
47.5°	5110.7	5060.8	4929.0	4803.2	4725.3	4293.9	3832.5	3726.7	3798.6	3896.5	3642.8
50°	5638.0	5500.2	5308.4	5232.5	5394.3	5060.8	4335.8	4234.0	4230.0	4285.9	3962.4
52.5°	5877.6	5628.0	5520.1	5584.0	5869.6	5773.8	4879.1	4733.3	4675.3	4681.3	4259.9
55°	5588.0	5560.1	5618.0	5817.7	6191.2	6135.3	5400.3	5220.6	5134.7	5026.8	4545.5
57.5°	5258.5	5344.4	5574.1	5955.5	6598.6	6512.7	5913.6	5709.9	5552.1	5304.4	4863.1
60°	4954.9	5042.8	5422.3	5987.5	6822.3	6876.2	6341.0	6147.2	5913.6	5588.0	5212.6
62.5°	4493.6	4561.5	5094.7	5941.5	6724.4	7087.9	6638.5	6492.8	6275.1	5857.7	5614.0
65°	3974.3	4018.3	4545.5	5574.1	6532.7	7063.9	6884.2	6802.3	6590.6	6139.3	6011.4
67.5°	3405.2	3457.1	3896.5	4913.0	6157.2	6952.1	7115.9	7107.9	6866.2	6450.8	6299.0
70°	2750.1	2754.1	3117.6	4074.2	5502.2	6728.4	7403.5	7421.4	7129.8	6684.5	6311.0
72.5°	1316.1	1424.0	2021.1	2844.0	4471.6	6289.0	7591.2	7681.1	7295.6	6676.5	5630.0
75°	301.6	311.6	589.2	1352.1	2622.3	4827.1	7121.9	7289.6	6892.2	5773.8	3966.4
77.5°	109.8	115.8	165.8	395.4	1008.6	2494.4	5096.7	5342.4	5094.7	3732.7	1875.3
80°	73.9	71.9	85.9	175.7	463.3	707.0	2606.3	2752.1	2512.4	1274.2	449.4
82.5°	37.9	39.9	59.9	97.9	311.6	245.7	870.8	946.7	778.9	255.6	83.9
85°	18.0	18.0	34.0	61.9	131.8	85.9	193.7	233.7	209.7	111.8	28.0
87.5°	18.0	18.0	32.0	39.9	67.9	35.9	47.9	59.9	55.9	59.9	10.0
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°	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1
2.5°	1330.1	1328.1	1326.1	1330.1	1328.1	1332.1	1332.1	1336.1	1336.1	1332.1	1330.1
5°	1312.1	1308.1	1304.1	1304.1	1302.1	1306.1	1318.1	1328.1	1330.1	1324.1	1322.1
7.5°	1314.1	1314.1	1310.1	1302.1	1288.2	1288.2	1288.2	1300.1	1306.1	1302.1	1300.1
10°	1350.1	1352.1	1342.1	1324.1	1300.1	1278.2	1236.2	1174.3	1116.4	1100.4	1094.4
12.5°	1412.0	1414.0	1394.0	1362.1	1312.1	1182.3	1022.5	874.8	760.9	729.0	723.0
15°	1485.9	1487.9	1451.9	1400.0	1248.2	946.7	709.0	541.2	441.4	417.4	415.4
17.5°	1561.8	1557.8	1503.9	1404.0	1058.5	671.0	431.4	345.5	319.5	313.6	315.6
20°	1635.7	1623.7	1549.8	1330.1	814.8	439.4	315.6	295.6	289.6	285.6	285.6
22.5°	1703.6	1679.6	1587.7	1184.3	571.2	315.6	281.6	277.6	269.6	263.6	261.6
25°	1771.5	1737.5	1611.7	994.6	383.5	275.6	265.6	257.6	247.6	239.7	237.7
27.5°	1853.4	1805.4	1599.7	754.9	287.6	255.6	247.6	235.7	221.7	209.7	205.7
30°	1931.3	1877.3	1531.8	521.3	245.7	235.7	223.7	205.7	187.7	173.8	169.8
32.5°	2029.1	1967.2	1410.0	341.5	213.7	205.7	193.7	171.8	147.8	131.8	127.8
35°	2168.9	2099.0	1254.2	239.7	187.7	173.8	157.8	133.8	107.8	95.9	93.9
37.5°	2364.6	2270.8	1058.5	193.7	165.8	145.8	121.8	97.9	79.9	69.9	67.9
40°	2604.3	2460.5	840.8	171.8	147.8	121.8	91.9	69.9	57.9	49.9	49.9
42.5°	2863.9	2638.2	619.1	157.8	129.8	99.9	67.9	49.9	41.9	37.9	35.9
45°	3131.5	2796.0	417.4	145.8	113.8	75.9	47.9	34.0	28.0	28.0	26.0
47.5°	3409.1	2901.9	269.6	131.8	95.9	55.9	32.0	24.0	20.0	20.0	20.0
50°	3684.8	2957.8	191.7	119.8	77.9	37.9	24.0	18.0	16.0	16.0	16.0
52.5°	3884.5	2921.8	153.8	103.9	59.9	28.0	18.0	14.0	12.0	12.0	12.0
55°	4058.2	2859.9	133.8	89.9	43.9	20.0	14.0	12.0	10.0	10.0	10.0
57.5°	4236.0	2780.0	119.8	75.9	32.0	14.0	10.0	8.0	8.0	8.0	8.0
60°	4397.7	2644.2	103.9	59.9	22.0	10.0	8.0	6.0	6.0	6.0	6.0
62.5°	4555.5	2528.4	89.9	45.9	16.0	8.0	4.0	4.0	2.0	2.0	2.0
65°	4645.4	2372.6	71.9	30.0	10.0	6.0	2.0	2.0	0.0	0.0	0.0
67.5°	4617.4	2186.9	49.9	18.0	6.0	4.0	2.0	0.0	0.0	0.0	0.0
70°	4423.7	1937.2	30.0	10.0	6.0	4.0	2.0	0.0	0.0	0.0	0.0
72.5°	3704.7	1434.0	18.0	8.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0
75°	2474.5	659.1	10.0	6.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
77.5°	1132.4	197.7	6.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	227.7	51.9	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	47.9	10.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	2.0	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)