

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: P400528

Luminaire Tested: **ARCH-L-PA3-90-760-U-T3-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400528  
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-PA3-90-760-U-T3-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5700K, 400mA 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: 11345 lumens  
Efficiency: N/A  
Efficacy: 122.0 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

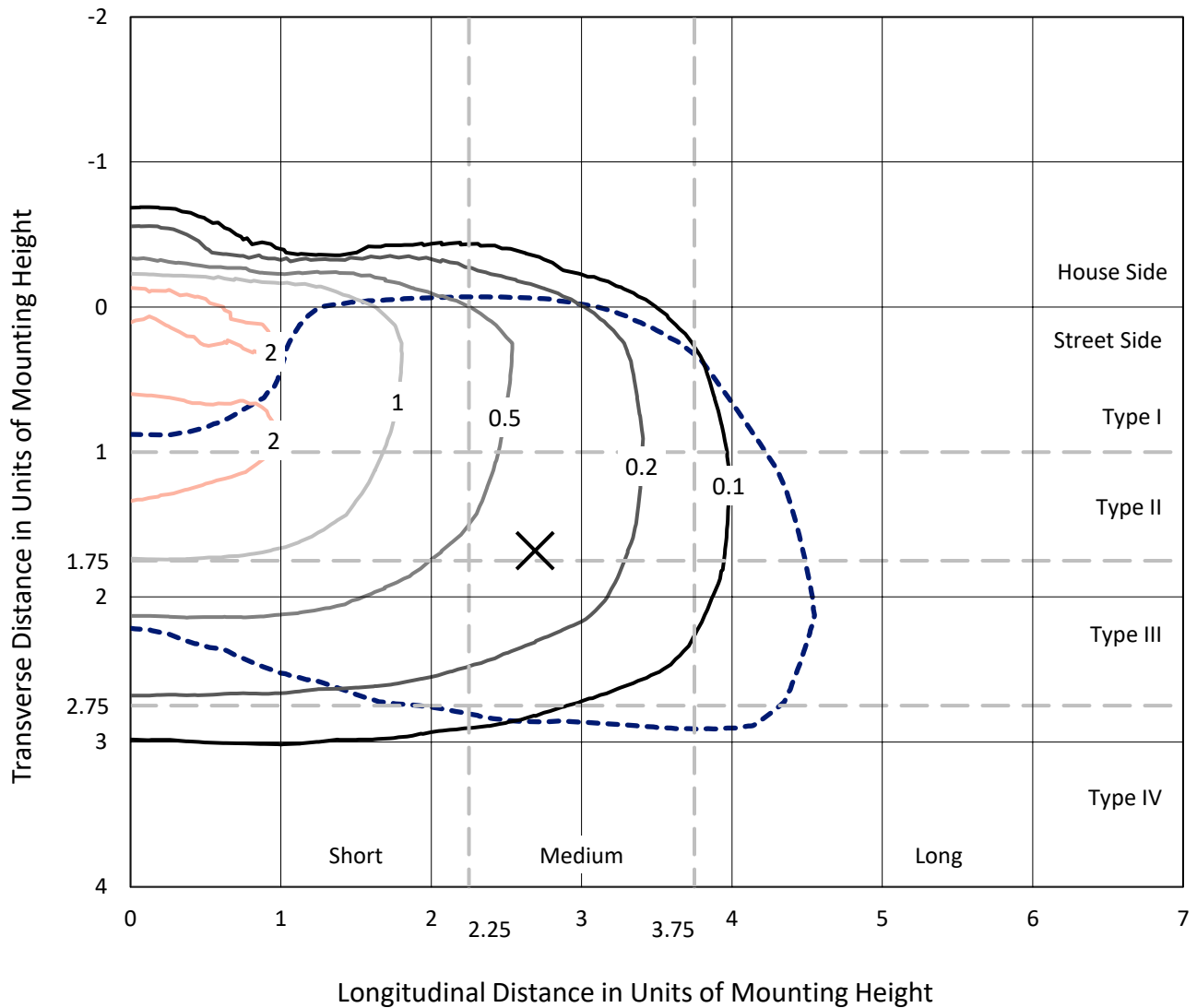
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

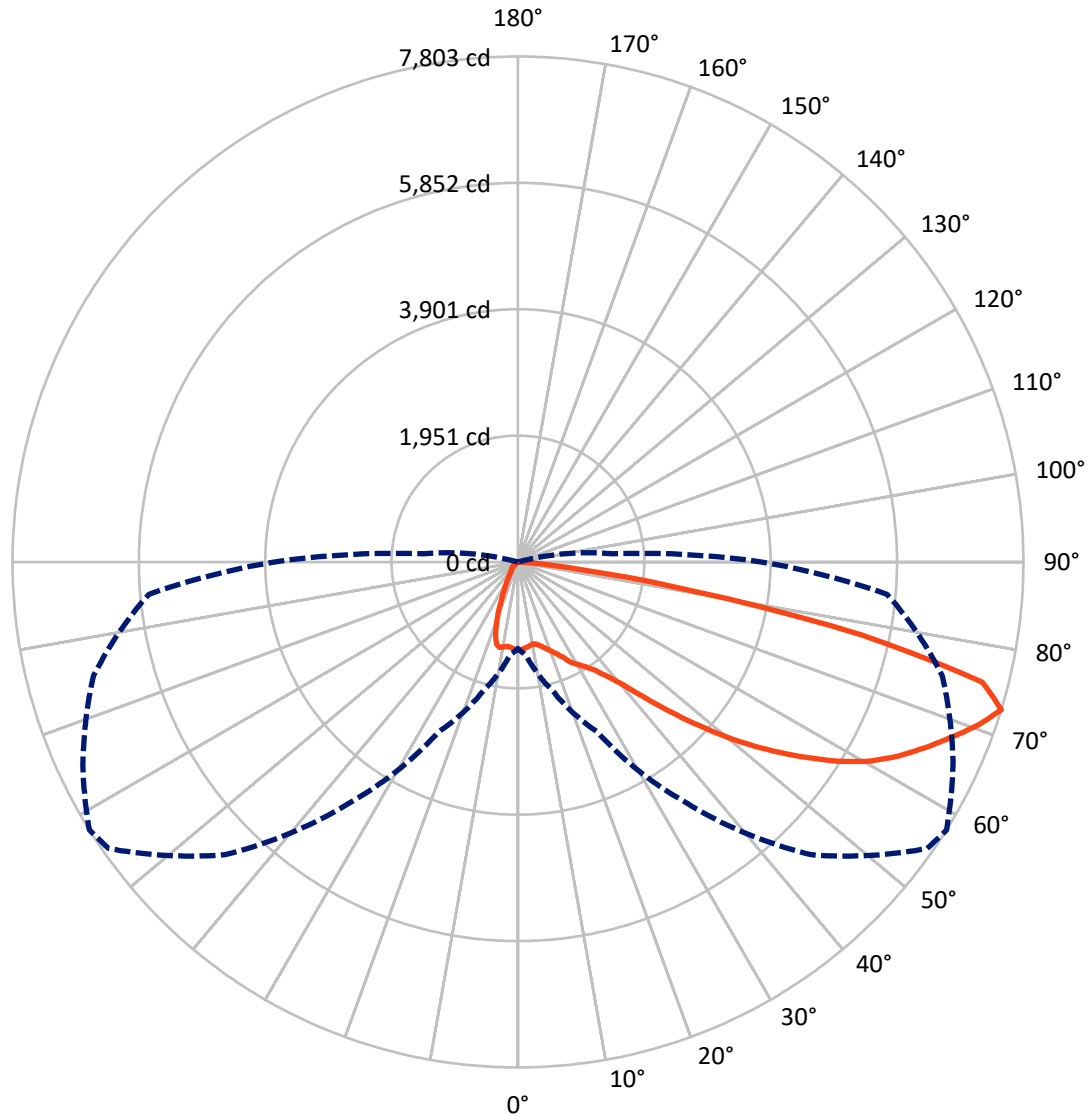
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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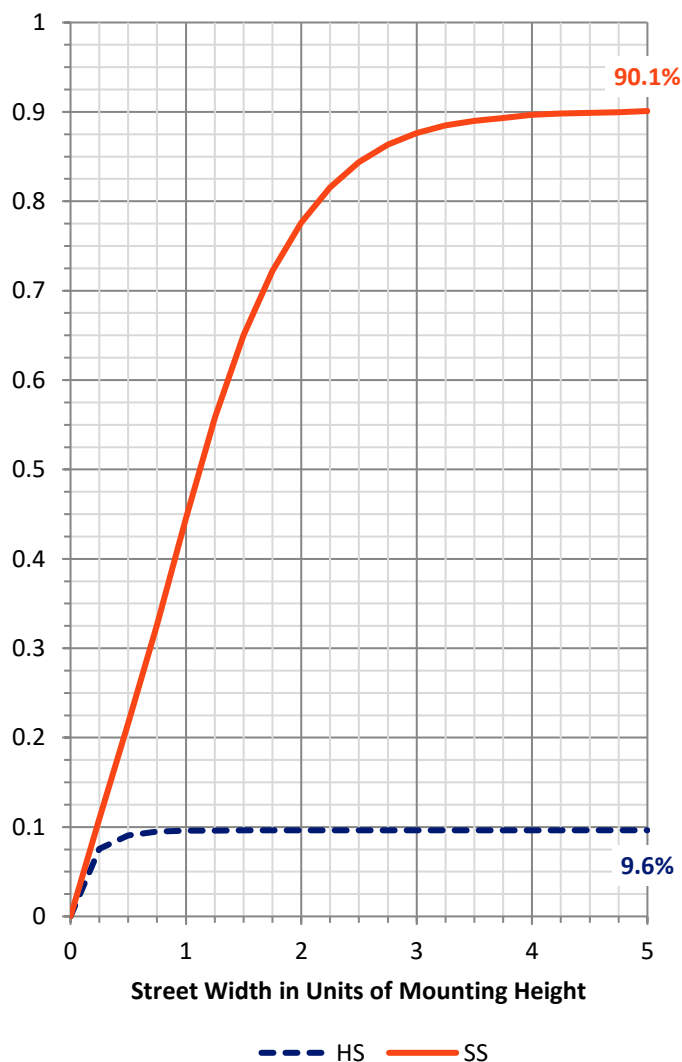
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1103.2	0.0	1103.2
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	10241.8	0.0	10241.8
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	11345.0	0.0	11345.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.9	1.1
10°-20°	325.4	2.9
20°-30°	511.2	4.5
30°-40°	881.6	7.8
40°-50°	1677.3	14.8
50°-60°	2656.3	23.4
60°-70°	3099.6	27.3
70°-80°	1941.3	17.1
80°-90°	127.4	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°	11345.0	100.0
0°-180°	11345.0	100.0

**Coefficient of Utilization**



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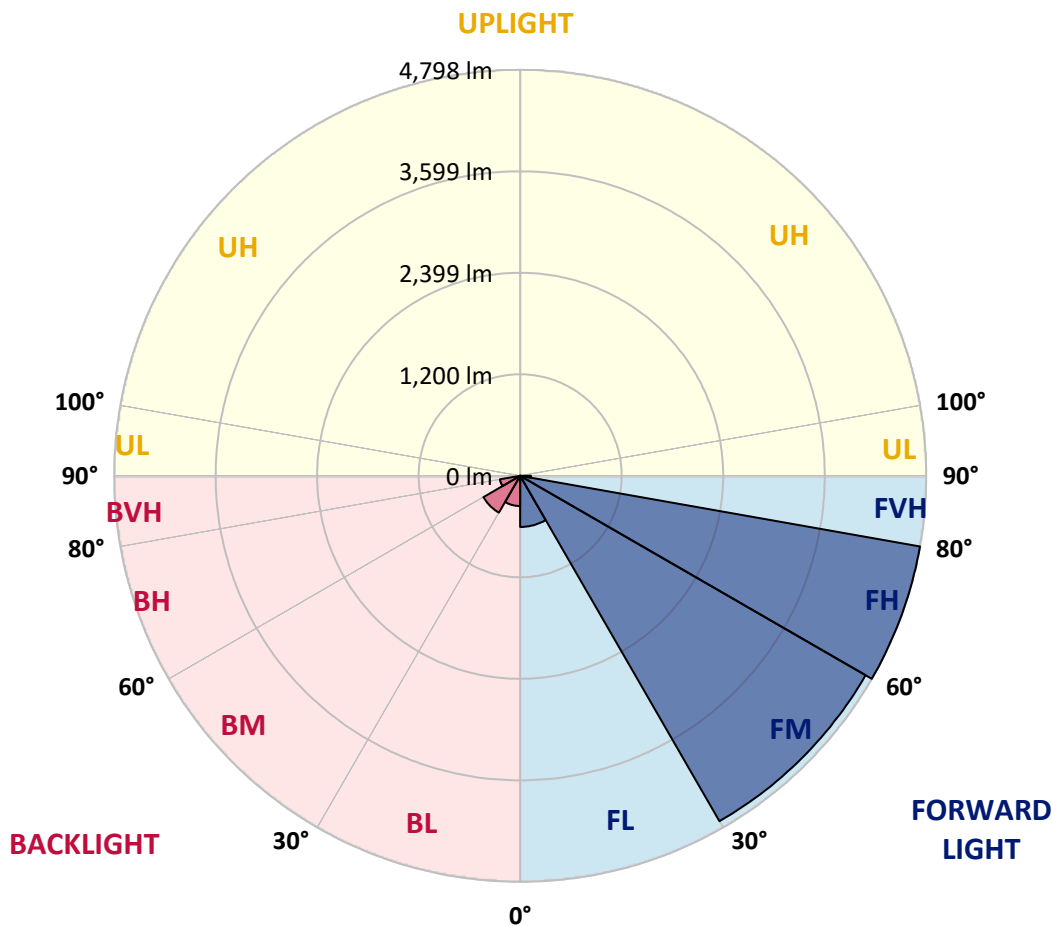
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	604.3	5.3			
FM (30°-60°)	4713.2	41.5			
FH (60°-80°)	4798.1	42.3			G2/5000
FVH (80°-90°)	126.2	1.1			G2/225
BL (0°-30°)	357.3	3.1	B1/500		
BM (30°-60°)	502.0	4.4	B1/1000		
BH (60°-80°)	242.8	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°	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3
2.5°	1355.2	1349.2	1347.1	1345.1	1347.1	1349.2	1343.1	1349.2	1345.1	1347.1	1351.2
5°	1306.6	1300.5	1298.4	1300.5	1306.6	1316.7	1320.8	1326.8	1326.8	1332.9	1335.0
7.5°	1251.8	1247.7	1245.7	1249.7	1261.9	1284.2	1296.4	1304.5	1312.6	1324.8	1337.0
10°	1221.3	1219.3	1217.3	1223.4	1235.5	1255.8	1272.1	1284.2	1314.7	1349.2	1371.5
12.5°	1201.1	1201.1	1205.1	1217.3	1233.5	1249.7	1288.3	1304.5	1351.2	1403.9	1434.4
15°	1184.8	1184.8	1190.9	1213.2	1235.5	1274.1	1330.9	1349.2	1403.9	1468.9	1509.4
17.5°	1172.7	1176.7	1180.8	1203.1	1245.7	1310.6	1377.6	1403.9	1470.9	1541.9	1586.5
20°	1174.7	1178.7	1180.8	1203.1	1263.9	1353.2	1438.4	1468.9	1546.0	1621.0	1665.7
22.5°	1186.9	1192.9	1195.0	1225.4	1296.4	1397.8	1507.4	1541.9	1625.1	1704.2	1738.7
25°	1237.6	1241.6	1229.5	1255.8	1343.1	1466.8	1596.7	1633.2	1716.4	1789.4	1817.8
27.5°	1410.0	1414.1	1347.1	1316.7	1379.6	1523.6	1706.2	1756.9	1860.4	1909.1	1913.2
30°	1783.3	1787.4	1655.5	1511.5	1466.8	1572.3	1767.1	1838.1	1972.0	2026.8	2002.4
32.5°	2264.2	2260.1	2079.5	1866.5	1673.8	1657.5	1854.3	1929.4	2075.5	2128.2	2110.0
35°	2747.0	2753.1	2598.9	2278.4	2002.4	1817.8	1965.9	2053.2	2229.7	2304.7	2272.3
37.5°	3077.7	3118.3	3051.3	2704.4	2406.2	2114.0	2146.5	2239.8	2460.9	2562.4	2493.4
40°	3544.3	3534.2	3371.9	3116.3	2852.5	2552.2	2438.6	2483.3	2736.9	2872.8	2765.3
42.5°	4171.2	4150.9	3875.0	3625.5	3331.3	3085.8	2854.5	2846.4	3053.4	3211.6	3055.4
45°	4739.3	4708.9	4520.2	4278.8	3956.2	3674.2	3361.7	3290.7	3434.8	3568.7	3386.1
47.5°	5191.7	5141.0	5007.1	4879.3	4800.2	4361.9	3893.3	3785.8	3858.8	3958.2	3700.5
50°	5727.3	5587.3	5392.6	5315.5	5479.8	5141.0	4404.5	4301.1	4297.0	4353.8	4025.2
52.5°	5970.8	5717.2	5607.6	5672.6	5962.7	5865.3	4956.4	4808.3	4749.4	4755.5	4327.4
55°	5676.6	5648.2	5707.0	5909.9	6289.3	6232.5	5485.9	5303.3	5216.1	5106.5	4617.6
57.5°	5341.9	5429.1	5662.4	6049.9	6703.2	6615.9	6007.3	5800.4	5640.1	5388.5	4940.1
60°	5033.5	5122.7	5508.2	6082.4	6930.4	6985.2	6441.5	6244.7	6007.3	5676.6	5295.2
62.5°	4564.8	4633.8	5175.5	6035.7	6831.0	7200.2	6743.8	6595.7	6374.5	5950.5	5703.0
65°	4037.3	4082.0	4617.6	5662.4	6636.2	7175.9	6993.3	6910.1	6695.1	6236.6	6106.7
67.5°	3459.1	3511.9	3958.2	4990.9	6254.8	7062.3	7228.6	7220.5	6975.0	6553.1	6398.9
70°	2793.7	2797.7	3167.0	4138.8	5589.4	6835.1	7520.8	7539.1	7242.8	6790.4	6411.0
72.5°	1337.0	1446.5	2053.2	2889.0	4542.5	6388.7	7711.5	7802.8	7411.2	6782.3	5719.2
75°	306.4	316.5	598.5	1373.5	2663.8	4903.6	7234.7	7405.2	7001.4	5865.3	4029.2
77.5°	111.6	117.7	168.4	401.7	1024.5	2534.0	5177.5	5427.1	5175.5	3791.8	1905.1
80°	75.1	73.0	87.2	178.5	470.7	718.2	2647.6	2795.7	2552.2	1294.4	456.5
82.5°	38.5	40.6	60.9	99.4	316.5	249.5	884.6	961.7	791.2	259.7	85.2
85°	18.3	18.3	34.5	62.9	133.9	87.2	196.8	237.4	213.0	113.6	28.4
87.5°	18.3	18.3	32.5	40.6	69.0	36.5	48.7	60.9	56.8	60.9	10.1
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°	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3
2.5°	1351.2	1349.2	1347.1	1351.2	1349.2	1353.2	1353.2	1357.3	1357.3	1353.2	1351.2
5°	1332.9	1328.9	1324.8	1324.8	1322.8	1326.8	1339.0	1349.2	1351.2	1345.1	1343.1
7.5°	1335.0	1335.0	1330.9	1322.8	1308.6	1308.6	1308.6	1320.8	1326.8	1322.8	1320.8
10°	1371.5	1373.5	1363.4	1345.1	1320.8	1298.4	1255.8	1192.9	1134.1	1117.9	1111.8
12.5°	1434.4	1436.4	1416.1	1383.6	1332.9	1201.1	1038.8	888.6	773.0	740.5	734.4
15°	1509.4	1511.5	1474.9	1422.2	1268.0	961.7	720.2	549.8	448.4	424.0	422.0
17.5°	1586.5	1582.5	1527.7	1426.3	1075.3	681.7	438.2	351.0	324.6	318.5	320.6
20°	1661.6	1649.4	1574.4	1351.2	827.8	446.3	320.6	300.3	294.2	290.1	290.1
22.5°	1730.6	1706.2	1612.9	1203.1	580.2	320.6	286.1	282.0	273.9	267.8	265.8
25°	1799.6	1765.1	1637.2	1010.3	389.5	280.0	269.8	261.7	251.6	243.5	241.4
27.5°	1882.7	1834.0	1625.1	766.9	292.1	259.7	251.6	239.4	225.2	213.0	209.0
30°	1961.9	1907.1	1556.1	529.5	249.5	239.4	227.2	209.0	190.7	176.5	172.4
32.5°	2061.3	1998.4	1432.3	346.9	217.1	209.0	196.8	174.5	150.1	133.9	129.8
35°	2203.3	2132.3	1274.1	243.5	190.7	176.5	160.3	135.9	109.6	97.4	95.4
37.5°	2402.1	2306.8	1075.3	196.8	168.4	148.1	123.8	99.4	81.2	71.0	69.0
40°	2645.6	2499.5	854.1	174.5	150.1	123.8	93.3	71.0	58.8	50.7	50.7
42.5°	2909.3	2680.1	628.9	160.3	131.9	101.4	69.0	50.7	42.6	38.5	36.5
45°	3181.2	2840.3	424.0	148.1	115.6	77.1	48.7	34.5	28.4	28.4	26.4
47.5°	3463.2	2947.9	273.9	133.9	97.4	56.8	32.5	24.3	20.3	20.3	20.3
50°	3743.2	3004.7	194.8	121.7	79.1	38.5	24.3	18.3	16.2	16.2	16.2
52.5°	3946.0	2968.1	156.2	105.5	60.9	28.4	18.3	14.2	12.2	12.2	12.2
55°	4122.5	2905.3	135.9	91.3	44.6	20.3	14.2	12.2	10.1	10.1	10.1
57.5°	4303.1	2824.1	121.7	77.1	32.5	14.2	10.1	8.1	8.1	8.1	8.1
60°	4467.4	2686.1	105.5	60.9	22.3	10.1	8.1	6.1	6.1	6.1	6.1
62.5°	4627.7	2568.5	91.3	46.7	16.2	8.1	4.1	4.1	2.0	2.0	2.0
65°	4719.0	2410.2	73.0	30.4	10.1	6.1	2.0	2.0	0.0	0.0	0.0
67.5°	4690.6	2221.5	50.7	18.3	6.1	4.1	2.0	0.0	0.0	0.0	0.0
70°	4493.8	1967.9	30.4	10.1	6.1	4.1	2.0	0.0	0.0	0.0	0.0
72.5°	3763.4	1456.7	18.3	8.1	4.1	2.0	0.0	0.0	0.0	0.0	0.0
75°	2513.7	669.5	10.1	6.1	2.0	2.0	0.0	0.0	0.0	0.0	0.0
77.5°	1150.3	200.9	6.1	4.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	231.3	52.7	4.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	48.7	10.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	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)