

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: P572900

Luminaire Tested: **ARCH-S-PA2-130-730-U-T3-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572900  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-130-730-U-T3-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1295mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

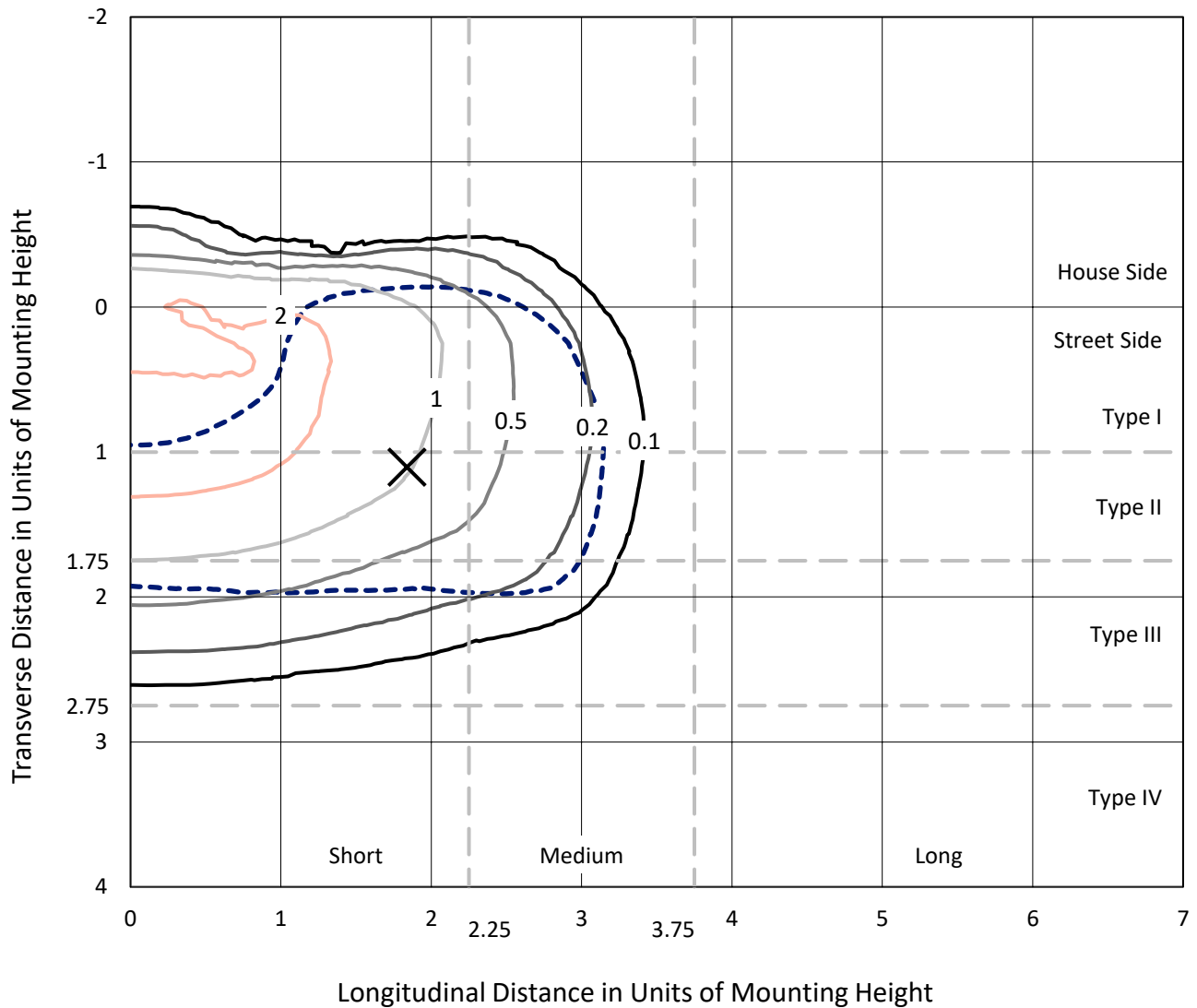
Lumens per Lamp: N/A  
Luminaire Lumens: 10986 lumens  
Efficiency: N/A  
Efficacy: 83.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 131.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

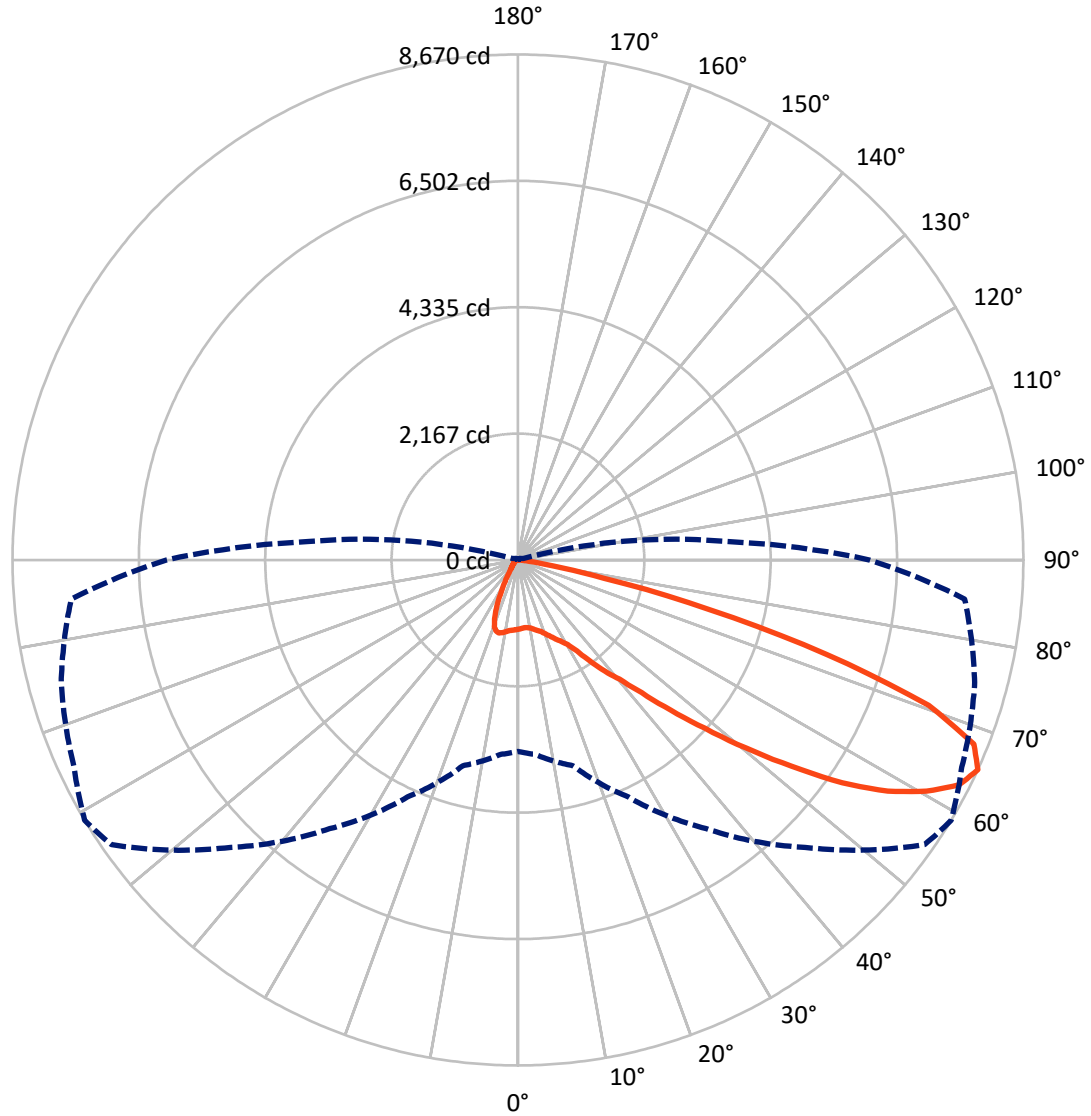
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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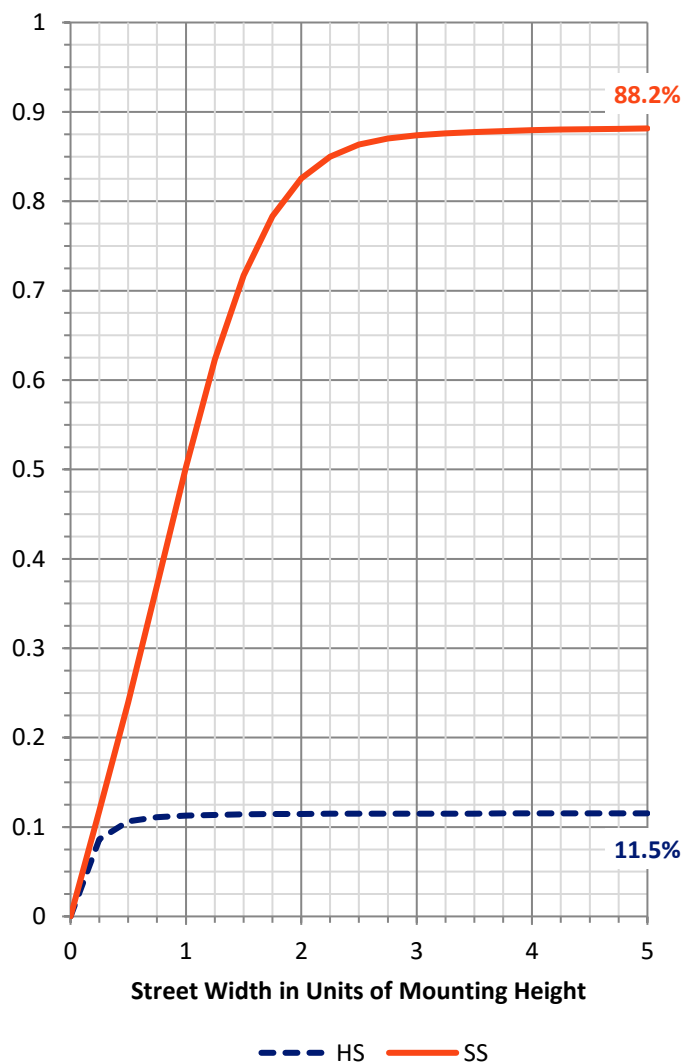
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1281.7	0.0	1281.7
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	9704.4	0.0	9704.4
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	10986.0	0.0	10986.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.2	1.0
10°-20°	318.7	2.9
20°-30°	541.3	4.9
30°-40°	958.8	8.7
40°-50°	1808.7	16.5
50°-60°	3060.3	27.9
60°-70°	3181.8	29.0
70°-80°	954.1	8.7
80°-90°	50.0	0.5
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°	10986.0	100.0
0°-180°	10986.0	100.0

**Coefficient of Utilization**

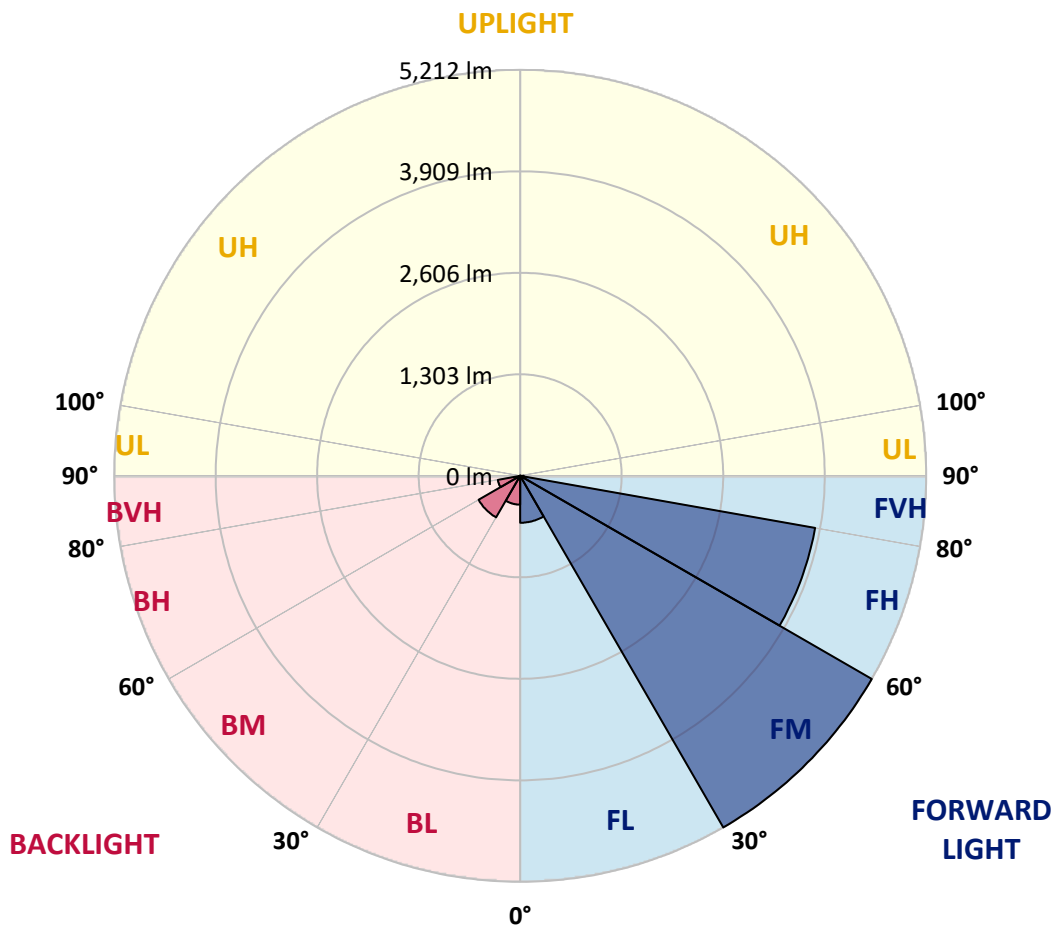


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	602.5	5.5			
FM (30°-60°)	5211.8	47.4			
FH (60°-80°)	3844.3	35.0			G2/5000
FVH (80°-90°)	45.8	0.4			G1/100
BL (0°-30°)	369.7	3.4	B1/500		
BM (30°-60°)	616.1	5.6	B1/1000		
BH (60°-80°)	291.6	2.7	B1/500		G1/500
BVH (80°-90°)	4.2	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1187.1	1187.1	1187.1	1187.1	1187.1	1187.1	1187.1	1187.1	1187.1	1187.1	1187.1
2.5°	1155.2	1151.2	1151.2	1159.2	1163.2	1167.2	1175.2	1175.2	1175.2	1183.1	1187.1
5°	1099.2	1099.2	1103.2	1111.2	1127.2	1139.2	1163.2	1167.2	1171.2	1191.1	1199.1
7.5°	1063.2	1063.2	1067.2	1083.2	1103.2	1131.2	1163.2	1171.2	1183.1	1211.1	1231.1
10°	1059.2	1055.2	1063.2	1079.2	1103.2	1139.2	1175.2	1187.1	1211.1	1247.1	1275.1
12.5°	1071.2	1067.2	1075.2	1091.2	1115.2	1151.2	1199.1	1219.1	1247.1	1295.1	1335.0
15°	1079.2	1075.2	1083.2	1103.2	1131.2	1175.2	1231.1	1255.1	1291.1	1359.0	1399.0
17.5°	1103.2	1099.2	1103.2	1119.2	1147.2	1195.1	1267.1	1291.1	1351.0	1427.0	1470.9
20°	1211.1	1207.1	1183.1	1175.2	1179.2	1223.1	1315.1	1355.0	1427.0	1522.9	1554.9
22.5°	1435.0	1419.0	1375.0	1303.1	1255.1	1271.1	1375.0	1419.0	1514.9	1622.8	1646.8
25°	1734.8	1722.8	1658.8	1534.9	1399.0	1359.0	1443.0	1502.9	1618.8	1738.7	1730.8
27.5°	2074.5	2050.5	1990.6	1818.7	1634.8	1502.9	1526.9	1578.9	1706.8	1834.7	1794.7
30°	2370.3	2362.3	2294.4	2150.5	1934.6	1738.7	1654.8	1682.8	1798.7	1934.6	1886.6
32.5°	2642.1	2618.1	2562.2	2426.3	2226.4	2026.5	1858.7	1858.7	1954.6	2114.5	2042.5
35°	2941.9	2925.9	2857.9	2722.0	2530.2	2294.4	2142.5	2126.5	2206.4	2386.3	2230.4
37.5°	3249.7	3209.7	3177.7	3037.8	2846.0	2642.1	2458.2	2422.3	2462.2	2594.1	2402.3
40°	3633.4	3633.4	3561.4	3433.5	3253.7	3037.8	2782.0	2690.1	2678.1	2850.0	2702.1
42.5°	4081.1	4069.1	4009.1	3889.2	3717.3	3517.5	3193.7	3109.8	3101.8	3309.6	3133.7
45°	4596.7	4588.7	4516.8	4416.8	4296.9	4077.1	3757.3	3673.4	3625.4	3865.2	3657.4
47.5°	5068.4	5040.4	5016.4	5028.4	4960.4	4712.6	4412.8	4312.9	4308.9	4496.8	4229.0
50°	5392.1	5376.1	5460.1	5540.0	5667.9	5512.0	5156.3	5068.4	5000.4	5248.2	4824.5
52.5°	5604.0	5596.0	5763.9	5991.7	6255.5	6243.5	5927.7	5875.8	5819.8	5887.8	5356.1
55°	5687.9	5687.9	5887.8	6307.5	6771.1	6971.0	6823.1	6751.1	6555.3	6415.4	5939.7
57.5°	5588.0	5576.0	5835.8	6383.4	7090.9	7502.6	7566.6	7482.6	7174.8	7019.0	6587.3
60°	5164.3	5172.3	5480.1	6171.6	7066.9	7718.5	8130.2	8054.2	7746.4	7514.6	7130.9
62.5°	4372.9	4440.8	4764.6	5516.0	6555.3	7546.6	8453.9	8493.9	8162.1	7874.3	7614.5
65°	3285.6	3345.6	3653.4	4484.8	5624.0	6971.0	8513.9	8669.8	8402.0	8110.2	7690.5
67.5°	1998.6	2018.5	2394.3	3021.8	4141.0	5807.8	8094.2	8433.9	8242.1	7762.4	6939.0
70°	931.3	983.3	1167.2	1650.8	2622.1	4276.9	6995.0	7474.6	7258.8	6663.2	5276.2
72.5°	363.7	379.7	495.6	763.5	1391.0	2690.1	5220.2	5540.0	5392.1	4732.6	3145.7
75°	179.9	191.9	239.8	363.7	635.5	1111.2	3189.7	3397.6	3153.7	2378.3	1331.0
77.5°	131.9	131.9	159.9	223.8	347.7	411.7	1343.0	1506.9	1423.0	919.3	363.7
80°	87.9	95.9	111.9	151.9	219.8	199.9	507.6	603.6	503.6	283.8	127.9
82.5°	52.0	56.0	83.9	107.9	147.9	115.9	171.9	191.9	207.9	139.9	60.0
85°	28.0	28.0	56.0	79.9	79.9	52.0	60.0	68.0	79.9	83.9	32.0
87.5°	8.0	8.0	36.0	48.0	32.0	28.0	32.0	32.0	36.0	44.0	16.0
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°	1187.1	1187.1	1187.1	1187.1	1187.1	1187.1	1187.1	1187.1	1187.1	1187.1	1187.1
2.5°	1191.1	1191.1	1195.1	1195.1	1199.1	1199.1	1199.1	1199.1	1203.1	1207.1	1207.1
5°	1203.1	1207.1	1207.1	1207.1	1207.1	1199.1	1195.1	1191.1	1191.1	1195.1	1195.1
7.5°	1235.1	1239.1	1235.1	1227.1	1215.1	1199.1	1183.1	1183.1	1179.2	1183.1	1179.2
10°	1283.1	1283.1	1279.1	1259.1	1239.1	1207.1	1175.2	1151.2	1135.2	1131.2	1123.2
12.5°	1343.0	1343.0	1331.0	1295.1	1259.1	1199.1	1115.2	1035.3	971.3	943.3	935.3
15°	1403.0	1403.0	1387.0	1335.0	1263.1	1119.2	943.3	775.4	679.5	639.5	615.6
17.5°	1474.9	1466.9	1439.0	1367.0	1219.1	959.3	675.5	503.6	427.7	391.7	391.7
20°	1550.9	1542.9	1490.9	1371.0	1107.2	687.5	439.7	347.7	327.8	319.8	319.8
22.5°	1634.8	1614.8	1534.9	1339.0	871.4	467.7	331.8	307.8	299.8	295.8	295.8
25°	1702.8	1670.8	1566.9	1251.1	623.6	327.8	291.8	283.8	267.8	263.8	255.8
27.5°	1754.7	1706.8	1578.9	1063.2	411.7	271.8	259.8	243.8	227.8	211.8	211.8
30°	1822.7	1762.7	1586.9	827.4	279.8	235.8	223.8	203.9	183.9	167.9	167.9
32.5°	1958.6	1870.7	1590.9	579.6	231.8	207.9	183.9	159.9	139.9	131.9	127.9
35°	2106.5	1986.6	1546.9	375.7	203.9	175.9	147.9	127.9	107.9	103.9	103.9
37.5°	2270.4	2158.4	1451.0	255.8	179.9	147.9	119.9	99.9	87.9	83.9	83.9
40°	2546.2	2414.3	1291.1	203.9	155.9	123.9	99.9	83.9	75.9	71.9	71.9
42.5°	2941.9	2714.0	1091.2	175.9	135.9	103.9	79.9	68.0	64.0	60.0	60.0
45°	3397.6	3049.8	859.4	159.9	119.9	87.9	68.0	60.0	56.0	52.0	52.0
47.5°	3921.2	3397.6	679.5	139.9	103.9	75.9	60.0	52.0	48.0	44.0	44.0
50°	4416.8	3669.4	511.6	123.9	91.9	64.0	52.0	48.0	44.0	40.0	40.0
52.5°	4824.5	3853.2	387.7	107.9	79.9	56.0	48.0	44.0	36.0	36.0	36.0
55°	5316.2	3997.1	295.8	95.9	71.9	52.0	44.0	36.0	32.0	28.0	28.0
57.5°	5743.9	4049.1	215.8	83.9	64.0	48.0	40.0	32.0	24.0	20.0	20.0
60°	6031.7	4005.1	155.9	71.9	56.0	40.0	32.0	24.0	16.0	12.0	12.0
62.5°	6235.5	3909.2	119.9	64.0	48.0	36.0	28.0	20.0	12.0	8.0	8.0
65°	6031.7	3613.4	95.9	56.0	40.0	32.0	20.0	16.0	8.0	4.0	4.0
67.5°	5216.2	3029.8	75.9	48.0	36.0	28.0	20.0	12.0	4.0	0.0	0.0
70°	3749.3	2162.4	64.0	44.0	32.0	24.0	16.0	8.0	4.0	0.0	0.0
72.5°	2090.5	1115.2	60.0	40.0	32.0	24.0	16.0	8.0	4.0	0.0	0.0
75°	847.4	383.7	56.0	40.0	32.0	20.0	16.0	8.0	4.0	0.0	0.0
77.5°	247.8	131.9	48.0	36.0	32.0	24.0	16.0	8.0	4.0	0.0	0.0
80°	87.9	60.0	36.0	32.0	24.0	20.0	16.0	12.0	4.0	0.0	0.0
82.5°	40.0	24.0	16.0	12.0	12.0	12.0	12.0	8.0	4.0	0.0	0.0
85°	16.0	12.0	8.0	4.0	4.0	4.0	4.0	4.0	4.0	0.0	0.0
87.5°	12.0	8.0	4.0	4.0	4.0	4.0	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)