

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: P573385

Luminaire Tested: **ARCH-S-PA2-70-730-U-T2U**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573385  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-70-730-U-T2U  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 725mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9632 lumens  
Efficiency: N/A  
Efficacy: 131.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

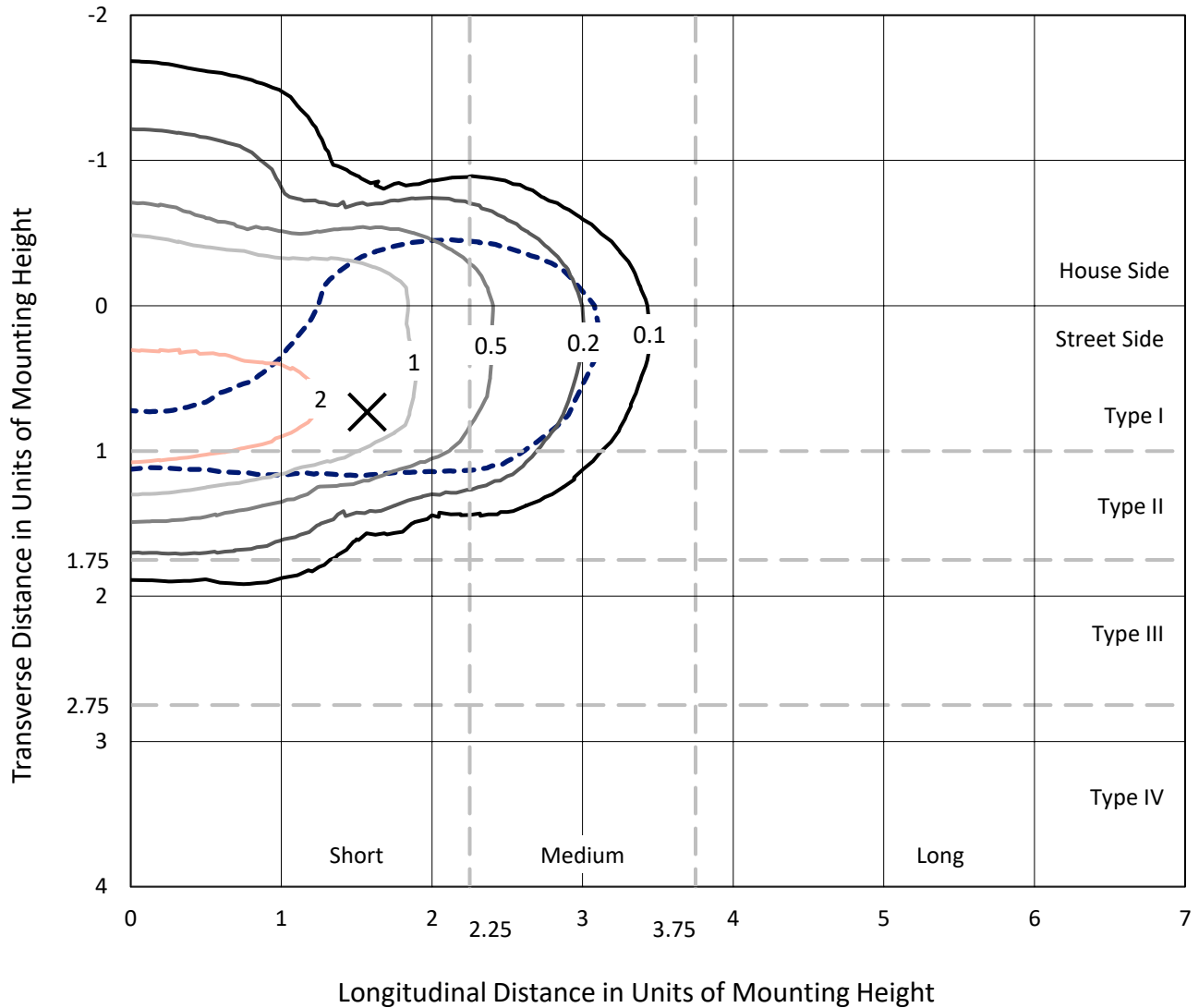
Input Watts (W): 73.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

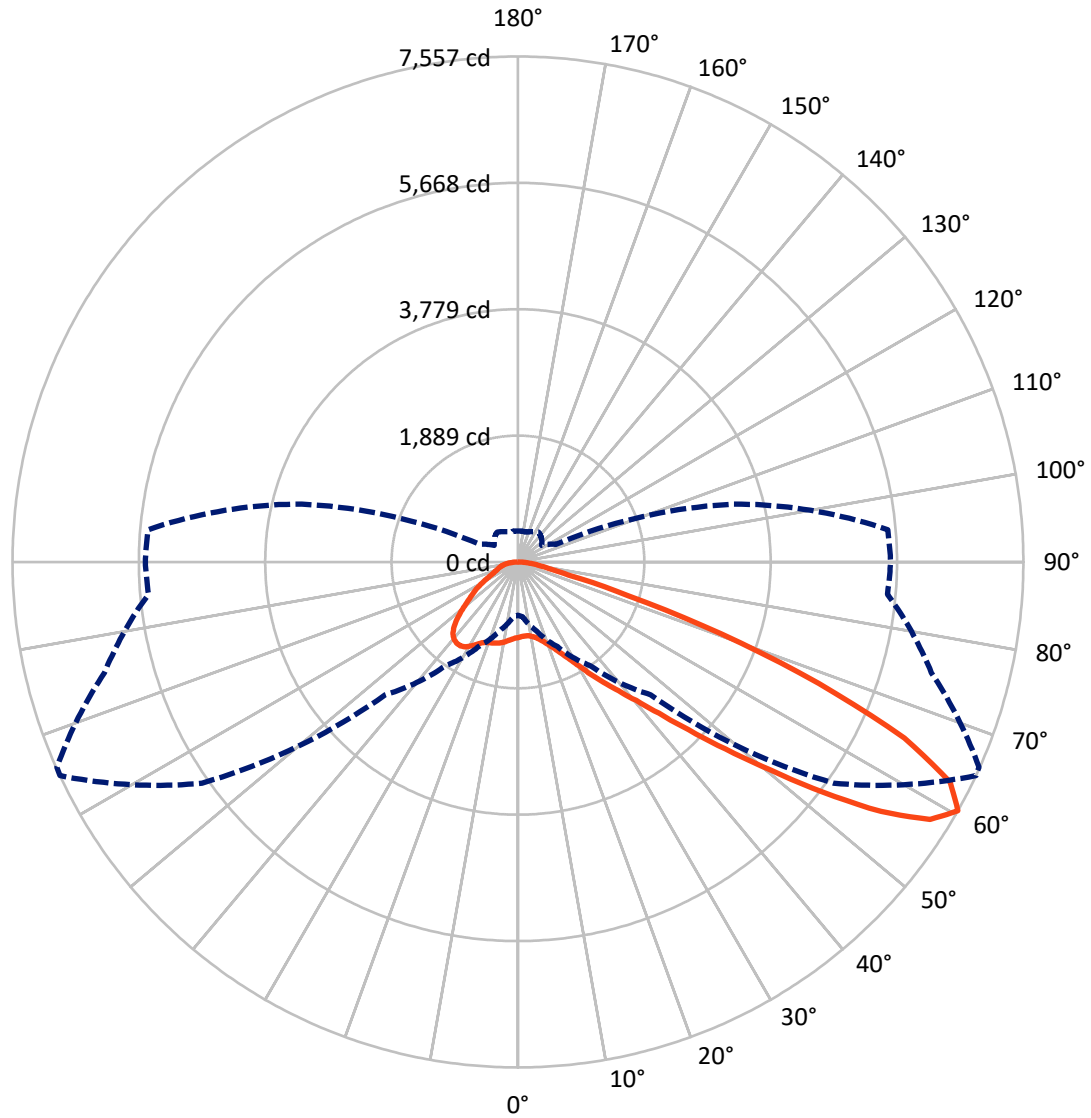
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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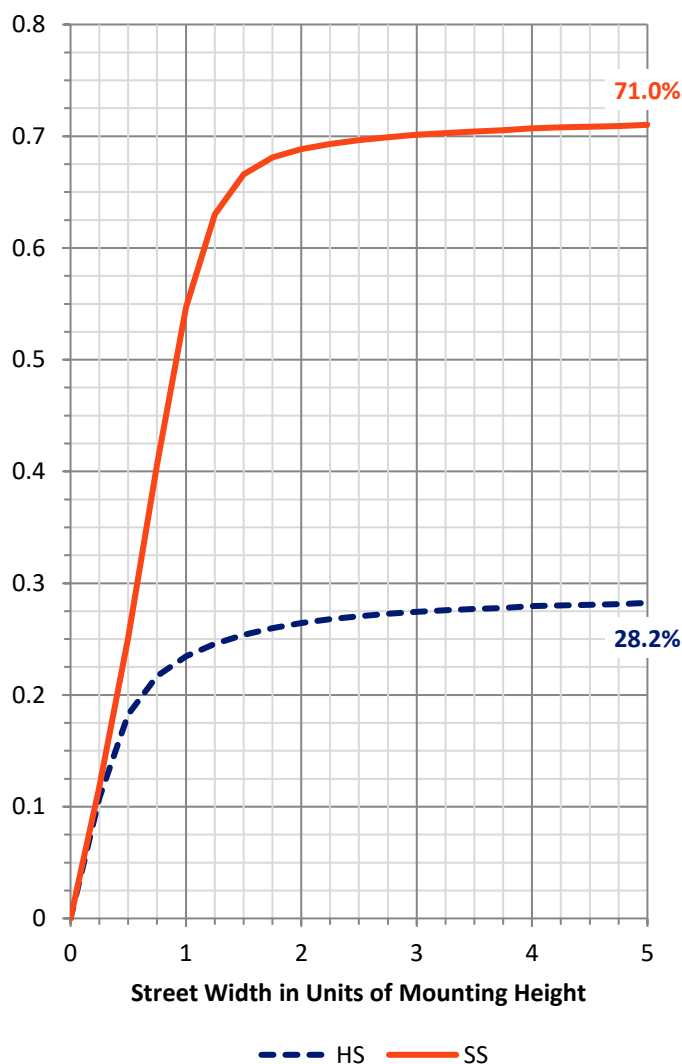
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2757.4	0.0	2757.4
	% Fixture	28.6	0.0	28.6
<b>Street Side</b>	Lumens	6874.6	0.0	6874.6
	% Fixture	71.4	0.0	71.4
<b>Total</b>	Lumens	9632.0	0.0	9632.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.2	1.1
10°-20°	351.4	3.6
20°-30°	673.6	7.0
30°-40°	1170.0	12.1
40°-50°	1984.2	20.6
50°-60°	2470.8	25.7
60°-70°	1991.0	20.7
70°-80°	753.9	7.8
80°-90°	127.9	1.3
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°	9632.0	100.0
0°-180°	9632.0	100.0

**Coefficient of Utilization**

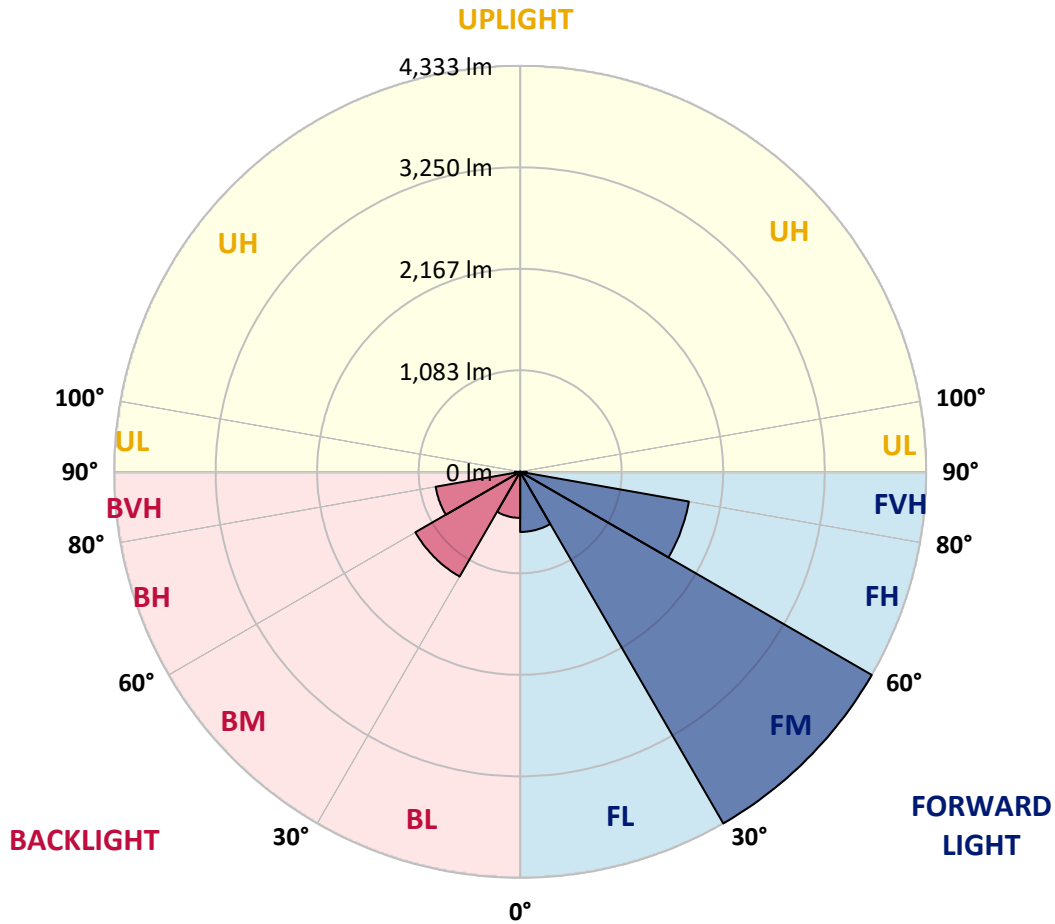


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	642.1	6.7			
FM (30°-60°)	4333.4	45.0			
FH (60°-80°)	1828.1	19.0			G2/5000
FVH (80°-90°)	70.9	0.7			G1/100
BL (0°-30°)	492.1	5.1	B1/500		
BM (30°-60°)	1291.5	13.4	B2/2500		
BH (60°-80°)	916.8	9.5	B2/1000		G2/1000
BVH (80°-90°)	56.9	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1130.1	1130.1	1130.1	1130.1	1130.1	1130.1	1130.1	1130.1	1130.1	1130.1	1130.1
2.5°	1103.7	1103.7	1103.7	1106.4	1109.0	1111.6	1116.9	1116.9	1116.9	1119.6	1124.8
5°	1082.6	1080.0	1082.6	1085.2	1090.5	1095.8	1106.4	1111.6	1111.6	1122.2	1132.8
7.5°	1085.2	1080.0	1080.0	1082.6	1087.9	1093.2	1103.7	1111.6	1114.3	1127.5	1146.0
10°	1111.6	1103.7	1103.7	1106.4	1106.4	1111.6	1119.6	1130.1	1132.8	1146.0	1164.4
12.5°	1167.1	1159.2	1156.5	1148.6	1140.7	1146.0	1153.9	1156.5	1159.2	1167.1	1185.6
15°	1283.3	1270.1	1248.9	1233.1	1212.0	1198.8	1196.1	1198.8	1198.8	1201.4	1212.0
17.5°	1449.6	1433.8	1402.1	1367.8	1317.6	1275.3	1262.1	1251.6	1251.6	1243.7	1243.7
20°	1652.9	1629.2	1592.2	1542.0	1468.1	1391.5	1346.6	1322.9	1315.0	1301.8	1283.3
22.5°	1887.9	1872.1	1824.6	1748.0	1637.1	1534.1	1460.2	1407.4	1407.4	1375.7	1336.1
25°	2165.2	2136.1	2080.7	1990.9	1840.4	1692.5	1592.2	1515.6	1507.7	1457.5	1394.2
27.5°	2434.5	2416.0	2347.4	2228.6	2049.0	1877.4	1737.4	1647.7	1634.5	1555.2	1457.5
30°	2761.9	2740.8	2637.8	2471.5	2278.7	2083.3	1919.6	1803.4	1790.2	1682.0	1544.7
32.5°	3168.6	3097.3	2970.5	2780.4	2532.2	2313.1	2125.6	2001.5	1985.6	1861.5	1697.8
35°	3662.3	3601.6	3382.4	3181.8	2886.0	2598.2	2373.8	2210.1	2189.0	2041.1	1835.1
37.5°	4010.9	3981.8	3831.3	3672.9	3334.9	2946.8	2672.2	2445.1	2424.0	2228.6	1961.9
40°	4230.0	4201.0	4158.7	4113.9	3926.4	3488.1	3031.3	2722.3	2688.0	2503.2	2215.4
42.5°	4343.6	4319.8	4327.7	4417.5	4470.3	4401.7	3543.5	3092.0	3068.2	2843.8	2524.3
45°	4277.6	4261.7	4338.3	4575.9	4834.7	5341.7	4201.0	3577.8	3514.5	3247.8	2899.2
47.5°	3960.7	3913.2	4092.7	4496.7	5051.2	5790.6	4993.1	4177.2	4108.6	3725.7	3279.5
50°	3308.5	3295.3	3540.9	4053.1	4966.7	5967.5	5840.7	4884.9	4834.7	4240.6	3701.9
52.5°	2701.2	2695.9	2886.0	3356.0	4428.1	5843.4	6456.0	5727.2	5576.7	4758.1	4161.4
55°	2096.5	2093.9	2262.9	2614.1	3533.0	5259.8	6746.4	6585.3	6474.4	5323.2	4634.0
57.5°	1433.8	1415.3	1634.5	1901.1	2653.7	4166.7	6556.3	7263.9	7195.3	5922.6	5135.7
60°	797.4	823.8	1066.8	1396.8	1898.5	2806.8	5764.2	7557.0	7546.5	6400.5	5545.0
62.5°	565.1	575.6	678.6	992.8	1248.9	1608.0	4446.6	7253.4	7337.9	6664.6	5777.4
65°	470.0	475.3	525.5	734.1	913.6	929.4	2772.5	6353.0	6463.9	6582.7	5827.5
67.5°	443.6	446.2	472.6	541.3	715.6	673.3	1238.4	4850.6	5085.6	5922.6	5500.1
70°	404.0	406.6	446.2	477.9	578.3	530.7	636.4	3221.4	3538.2	4681.6	4742.3
72.5°	345.9	353.8	385.5	448.9	470.0	441.0	491.1	1721.6	2035.8	3131.6	3662.3
75°	298.4	303.7	327.4	380.2	441.0	351.2	417.2	784.2	918.9	1837.8	2318.3
77.5°	240.3	242.9	277.2	311.6	369.7	285.2	324.8	470.0	493.8	897.8	1048.3
80°	182.2	182.2	206.0	248.2	274.6	274.6	237.6	327.4	340.6	427.8	414.6
82.5°	139.9	137.3	155.8	174.3	198.0	229.7	179.6	216.5	221.8	258.8	221.8
85°	92.4	92.4	103.0	118.8	132.0	126.7	139.9	126.7	132.0	161.1	121.5
87.5°	39.6	39.6	55.4	52.8	58.1	60.7	68.7	60.7	60.7	73.9	55.4
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°	1130.1	1130.1	1130.1	1130.1	1130.1	1130.1	1130.1	1130.1	1130.1	1130.1	1130.1
2.5°	1127.5	1130.1	1135.4	1138.0	1146.0	1148.6	1148.6	1153.9	1153.9	1159.2	1159.2
5°	1135.4	1143.3	1151.2	1159.2	1167.1	1169.7	1175.0	1177.7	1177.7	1182.9	1180.3
7.5°	1151.2	1159.2	1175.0	1182.9	1193.5	1198.8	1196.1	1198.8	1196.1	1198.8	1198.8
10°	1172.4	1182.9	1201.4	1212.0	1219.9	1222.5	1214.6	1206.7	1196.1	1196.1	1196.1
12.5°	1196.1	1204.1	1227.8	1235.7	1241.0	1233.1	1212.0	1196.1	1188.2	1190.9	1188.2
15°	1219.9	1227.8	1246.3	1254.2	1254.2	1230.5	1212.0	1206.7	1204.1	1206.7	1206.7
17.5°	1243.7	1251.6	1267.4	1267.4	1259.5	1241.0	1222.5	1204.1	1190.9	1182.9	1182.9
20°	1275.3	1275.3	1280.6	1280.6	1278.0	1248.9	1204.1	1159.2	1132.8	1116.9	1114.3
22.5°	1317.6	1307.0	1296.5	1296.5	1307.0	1230.5	1143.3	1074.7	1032.4	1027.1	1016.6
25°	1362.5	1338.7	1312.3	1330.8	1312.3	1182.9	1058.8	966.4	916.2	897.8	903.0
27.5°	1410.0	1373.0	1333.4	1386.2	1285.9	1090.5	940.0	837.0	789.5	776.3	776.3
30°	1476.0	1420.6	1362.5	1444.3	1235.7	984.9	800.1	726.1	699.7	689.2	686.5
32.5°	1602.8	1518.3	1433.8	1497.1	1180.3	847.6	705.0	660.1	628.4	617.9	625.8
35°	1716.3	1597.5	1542.0	1520.9	1093.2	736.7	646.9	607.3	580.9	567.7	567.7
37.5°	1819.3	1705.7	1663.5	1520.9	979.6	668.0	609.9	578.3	543.9	533.4	533.4
40°	2043.7	1893.2	1819.3	1499.8	839.7	633.7	591.5	554.5	525.5	514.9	512.3
42.5°	2352.7	2149.3	1980.4	1452.3	720.8	617.9	580.9	538.7	514.9	507.0	504.3
45°	2680.1	2500.5	2133.5	1367.8	644.3	602.0	578.3	533.4	504.3	496.4	493.8
47.5°	3076.2	2891.3	2310.4	1238.4	591.5	591.5	575.6	525.5	499.0	491.1	491.1
50°	3514.5	3361.3	2534.9	1090.5	551.9	583.5	570.3	525.5	496.4	488.5	485.8
52.5°	3963.4	3892.1	2769.9	945.3	512.3	573.0	567.7	525.5	491.1	483.2	483.2
55°	4533.7	4475.6	3041.8	837.0	480.6	551.9	567.7	520.2	483.2	477.9	477.9
57.5°	5093.5	5072.4	3253.1	742.0	456.8	525.5	559.8	512.3	475.3	472.6	472.6
60°	5571.4	5550.3	3342.8	623.2	433.0	499.0	543.9	499.0	462.1	464.7	464.7
62.5°	5867.1	5745.7	3276.8	514.9	409.3	475.3	525.5	483.2	448.9	456.8	454.2
65°	5919.9	5637.4	3020.7	430.4	382.9	448.9	504.3	464.7	430.4	448.9	446.2
67.5°	5531.8	5061.8	2540.1	374.9	356.5	419.8	480.6	438.3	409.3	435.7	427.8
70°	4692.1	4111.2	1880.0	332.7	330.1	385.5	448.9	406.6	380.2	393.4	382.9
72.5°	3493.3	2967.9	1217.3	301.0	301.0	345.9	404.0	367.0	340.6	343.3	332.7
75°	2178.4	1824.6	691.8	272.0	272.0	306.3	359.1	322.1	303.7	293.1	306.3
77.5°	990.2	802.7	364.4	242.9	245.6	261.4	308.9	274.6	253.5	237.6	245.6
80°	367.0	327.4	237.6	208.6	213.9	216.5	248.2	219.2	200.7	190.1	184.8
82.5°	190.1	176.9	161.1	166.3	174.3	166.3	192.8	163.7	142.6	134.7	113.5
85°	95.1	92.4	97.7	110.9	121.5	103.0	116.2	105.6	87.1	63.4	63.4
87.5°	37.0	39.6	37.0	50.2	55.4	47.5	52.8	37.0	26.4	13.2	10.6
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)