

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: P573384

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

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573384  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-16)  
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-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 725mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

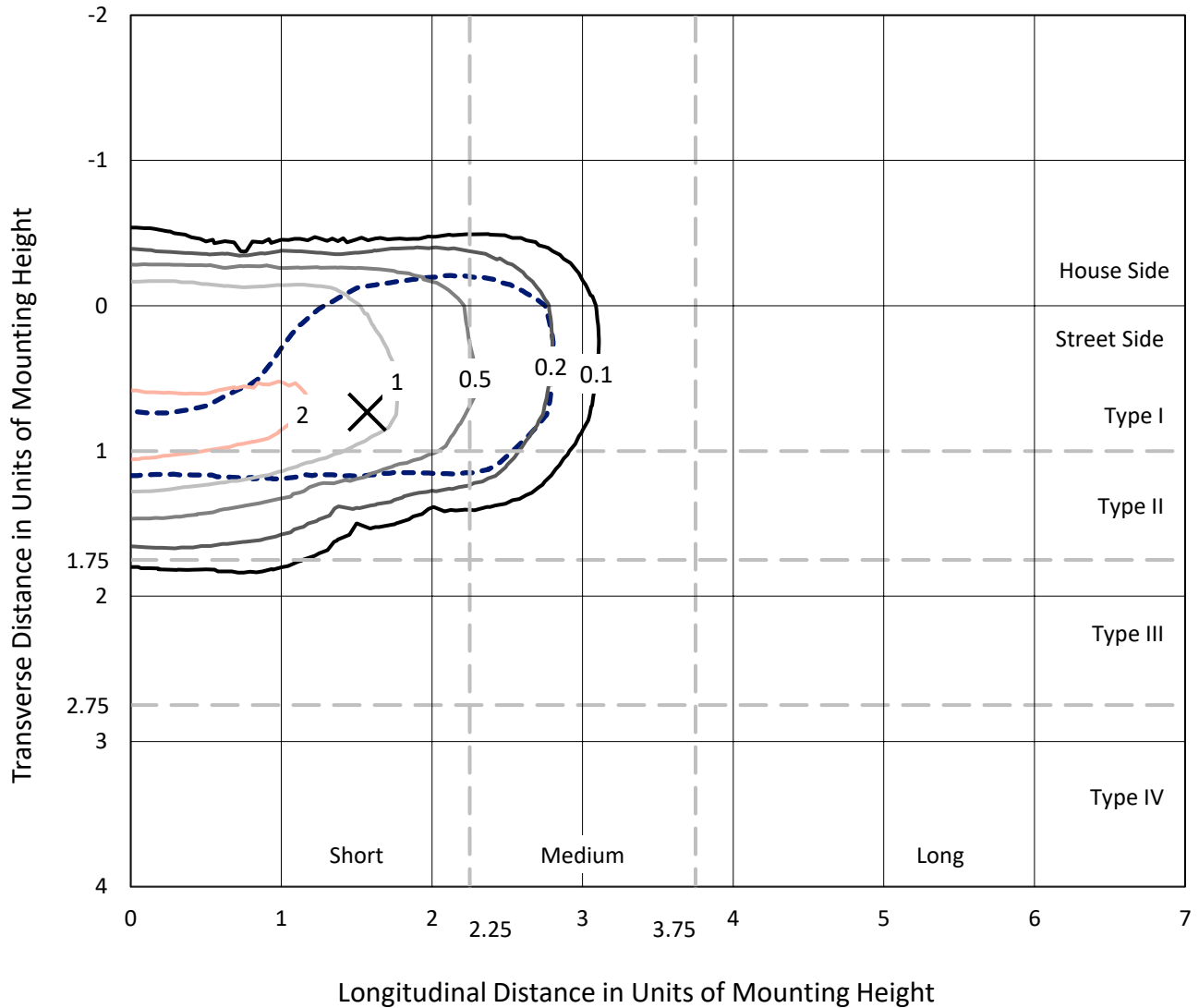
Lumens per Lamp: N/A  
Luminaire Lumens: 6699 lumens  
Efficiency: N/A  
Efficacy: 91.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 73.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

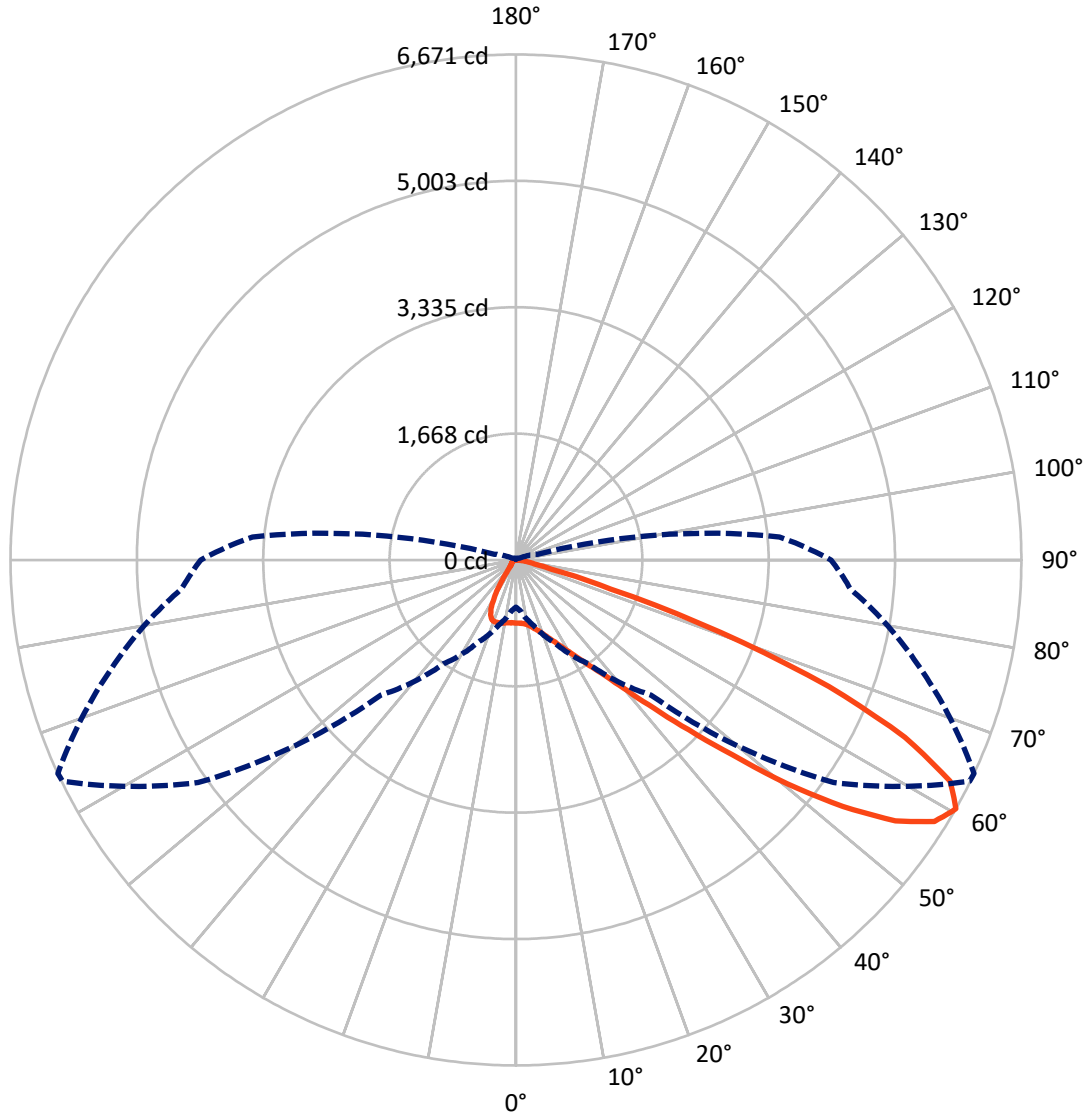
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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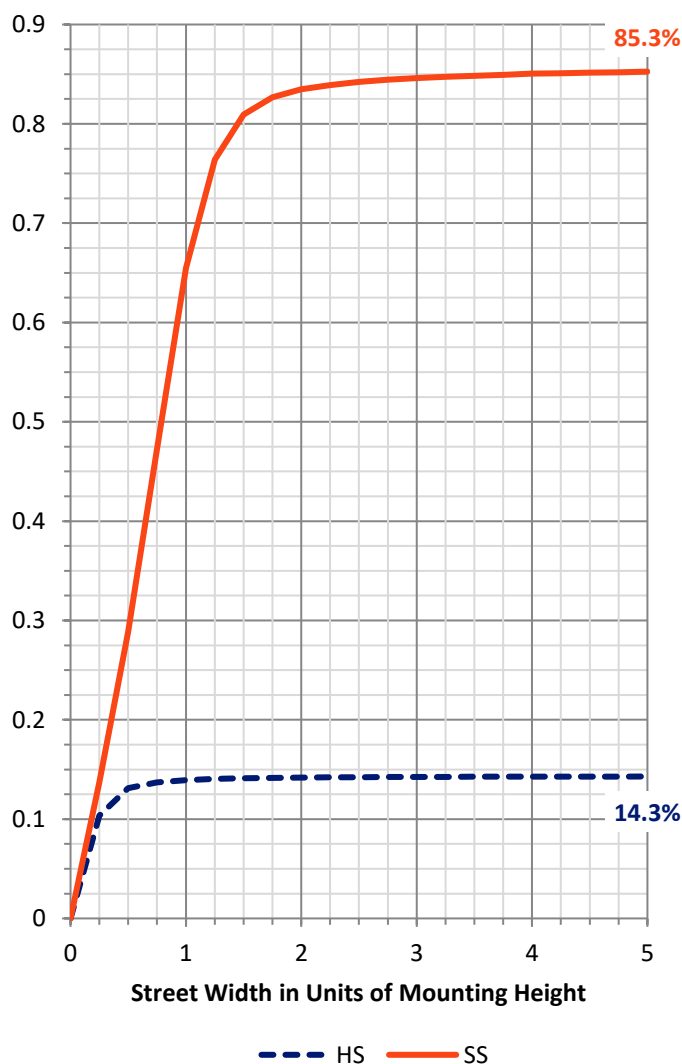
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	969.8	0.0	969.8
	% Fixture	14.5	0.0	14.5
<b>Street Side</b>	Lumens	5729.2	0.0	5729.2
	% Fixture	85.5	0.0	85.5
<b>Total</b>	Lumens	6699.0	0.0	6699.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.9	1.2
10°-20°	223.8	3.3
20°-30°	380.1	5.7
30°-40°	784.3	11.7
40°-50°	1577.4	23.5
50°-60°	1930.2	28.8
60°-70°	1365.5	20.4
70°-80°	329.1	4.9
80°-90°	29.7	0.4
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°	6699.0	100.0
0°-180°	6699.0	100.0

**Coefficient of Utilization**

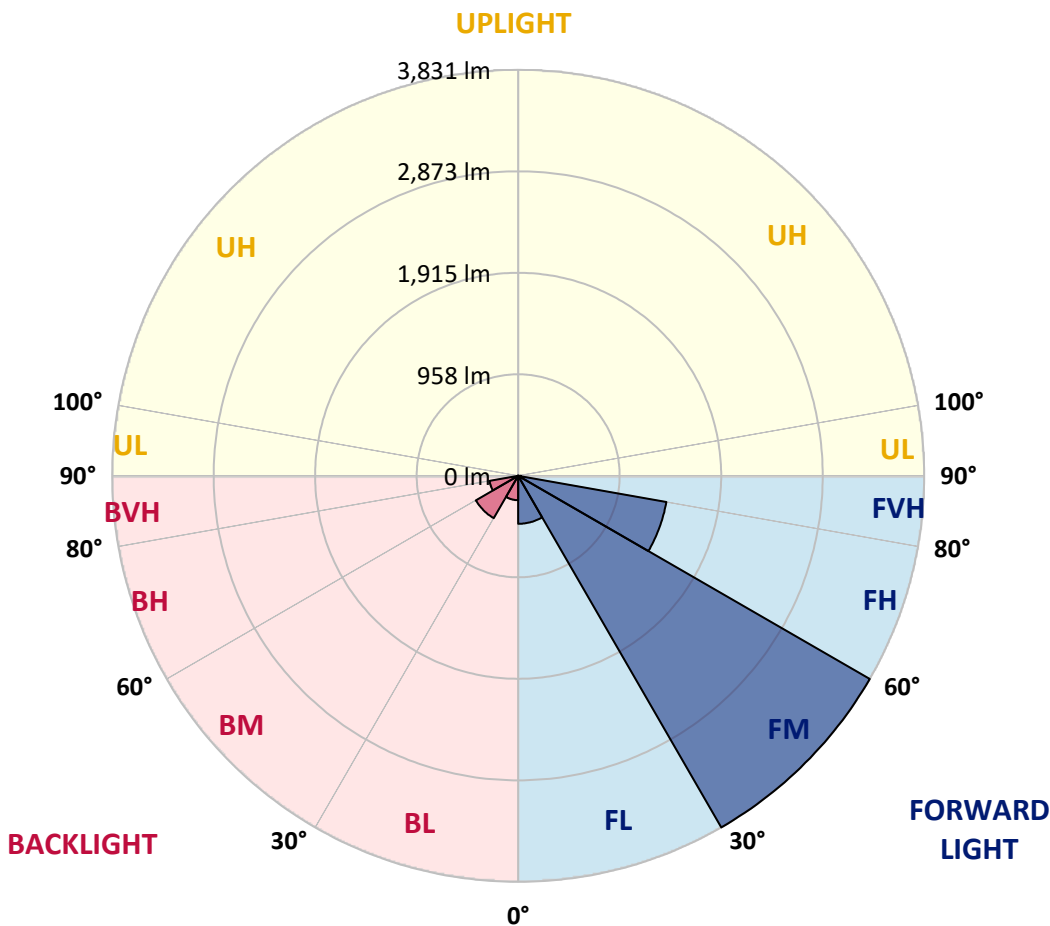


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	452.8	6.8			
FM (30°-60°)	3830.8	57.2			
FH (60°-80°)	1419.7	21.2			G1/1800
FVH (80°-90°)	25.9	0.4			G1/100
BL (0°-30°)	229.9	3.4	B1/500		
BM (30°-60°)	461.1	6.9	B1/1000		
BH (60°-80°)	274.9	4.1	B1/500		G1/500
BVH (80°-90°)	3.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	834.5	834.5	834.5	834.5	834.5	834.5	834.5	834.5	834.5	834.5	834.5
2.5°	837.2	834.5	834.5	834.5	837.2	837.2	839.8	834.5	834.5	834.5	834.5
5°	831.9	829.2	829.2	831.9	834.5	834.5	839.8	839.8	839.8	842.5	842.5
7.5°	842.5	837.2	837.2	839.8	842.5	842.5	847.7	850.4	850.4	855.7	858.3
10°	855.7	853.0	853.0	858.3	863.6	863.6	871.5	871.5	871.5	876.8	879.4
12.5°	874.1	871.5	871.5	879.4	887.3	892.6	897.9	900.6	903.2	903.2	903.2
15°	900.6	897.9	897.9	905.8	916.4	929.6	937.5	937.5	942.8	940.2	929.6
17.5°	937.5	934.9	937.5	942.8	956.0	969.2	985.1	987.7	985.1	979.8	963.9
20°	998.3	990.3	995.6	1008.8	1008.8	1016.8	1037.9	1045.8	1048.4	1032.6	1003.5
22.5°	1061.6	1061.6	1066.9	1082.8	1072.2	1082.8	1101.3	1114.5	1119.7	1106.5	1059.0
25°	1180.5	1185.8	1177.8	1172.6	1146.2	1151.4	1175.2	1201.6	1201.6	1191.1	1122.4
27.5°	1441.9	1436.7	1381.2	1304.6	1235.9	1241.2	1265.0	1299.3	1302.0	1278.2	1185.8
30°	1816.9	1822.2	1714.0	1539.7	1389.1	1349.5	1375.9	1415.5	1420.8	1381.2	1267.6
32.5°	2403.2	2358.3	2157.6	1925.2	1642.6	1500.0	1510.6	1552.9	1568.7	1534.4	1397.0
35°	3161.2	3055.5	2754.5	2466.6	2057.3	1769.4	1687.5	1732.4	1740.4	1721.9	1558.1
37.5°	3612.8	3528.3	3332.8	3071.4	2590.7	2128.6	1919.9	1964.8	1956.9	1919.9	1719.2
40°	3892.7	3845.2	3739.5	3618.0	3311.7	2693.7	2302.9	2265.9	2268.5	2215.7	1980.7
42.5°	4051.2	4008.9	3969.3	4001.0	3911.2	3718.4	2857.5	2688.4	2672.6	2572.2	2284.4
45°	4059.1	3995.7	4043.2	4228.1	4370.7	4626.9	3581.1	3190.2	3198.1	3031.8	2662.0
47.5°	3755.4	3705.2	3842.5	4204.3	4677.1	5221.1	4423.5	3876.9	3839.9	3512.4	3045.0
50°	3155.9	3153.2	3335.5	3847.8	4677.1	5527.4	5326.7	4682.3	4642.7	4014.2	3393.6
52.5°	2498.3	2548.5	2672.6	3158.5	4246.6	5498.4	5992.2	5514.2	5403.3	4460.5	3684.1
55°	1943.7	1925.2	2075.8	2411.2	3367.2	4996.6	6208.8	6169.2	6076.7	4856.6	3940.2
57.5°	1193.7	1262.4	1465.7	1764.1	2450.8	3929.7	5897.2	6567.9	6512.5	5226.4	4207.0
60°	620.6	673.4	892.6	1204.3	1674.3	2519.4	5118.1	6660.4	6670.9	5524.8	4434.1
62.5°	390.9	388.2	488.6	845.1	1077.5	1415.5	3974.6	6332.9	6433.3	5754.5	4650.6
65°	293.1	295.8	335.4	559.9	731.5	739.5	2358.3	5477.3	5643.6	5815.3	4724.6
67.5°	272.0	274.7	293.1	367.1	549.3	493.9	1037.9	4222.8	4455.2	5255.4	4439.4
70°	243.0	245.6	274.7	303.7	414.6	361.8	467.4	2543.2	2865.4	3813.5	3552.0
72.5°	190.1	195.4	229.8	287.9	309.0	274.7	324.8	1125.0	1312.5	2096.9	2033.5
75°	140.0	142.6	174.3	221.8	272.0	195.4	250.9	446.3	488.6	787.0	670.8
77.5°	97.7	97.7	121.5	166.4	227.1	137.3	179.6	240.3	245.6	293.1	192.8
80°	60.7	63.4	76.6	113.6	140.0	132.0	110.9	161.1	161.1	153.2	79.2
82.5°	34.3	37.0	52.8	76.6	95.1	89.8	71.3	92.4	95.1	97.7	44.9
85°	15.8	18.5	31.7	47.5	55.5	42.3	42.3	47.5	47.5	63.4	26.4
87.5°	2.6	2.6	15.8	21.1	18.5	21.1	21.1	26.4	26.4	31.7	13.2
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°	834.5	834.5	834.5	834.5	834.5	834.5	834.5	834.5	834.5	834.5	834.5
2.5°	831.9	831.9	831.9	829.2	829.2	826.6	821.3	821.3	821.3	821.3	824.0
5°	842.5	839.8	837.2	829.2	824.0	813.4	802.8	800.2	792.3	792.3	794.9
7.5°	855.7	855.7	847.7	834.5	821.3	802.8	784.4	771.1	757.9	755.3	752.7
10°	879.4	874.1	866.2	842.5	821.3	792.3	763.2	728.9	702.5	689.3	684.0
12.5°	897.9	895.3	879.4	853.0	818.7	773.8	707.8	628.5	565.2	530.8	530.8
15°	924.3	919.0	895.3	858.3	810.8	705.1	570.4	449.0	380.3	343.3	338.0
17.5°	950.7	940.2	911.1	860.9	776.4	581.0	398.8	287.9	240.3	221.8	216.6
20°	982.4	963.9	921.7	863.6	691.9	422.5	258.8	192.8	174.3	166.4	169.0
22.5°	1024.7	993.0	932.2	847.7	565.2	274.7	182.2	155.8	145.3	137.3	137.3
25°	1077.5	1032.6	950.7	802.8	409.3	184.9	145.3	129.4	118.8	113.6	110.9
27.5°	1125.0	1069.6	969.2	723.6	261.5	145.3	121.5	108.3	97.7	95.1	92.4
30°	1188.4	1111.8	987.7	596.8	171.7	118.8	103.0	89.8	81.9	79.2	79.2
32.5°	1296.7	1193.7	1022.0	454.2	129.4	103.0	87.2	76.6	71.3	68.7	68.7
35°	1423.5	1294.0	1051.1	316.9	110.9	87.2	73.9	66.0	63.4	60.7	60.7
37.5°	1555.5	1412.9	1056.4	200.7	97.7	76.6	66.0	60.7	55.5	55.5	55.5
40°	1793.2	1621.5	1032.6	134.7	84.5	68.7	58.1	55.5	50.2	50.2	50.2
42.5°	2070.5	1875.0	971.9	108.3	76.6	60.7	55.5	50.2	44.9	44.9	42.3
45°	2429.6	2162.9	868.9	95.1	68.7	55.5	50.2	44.9	42.3	39.6	39.6
47.5°	2767.7	2490.4	771.1	84.5	63.4	52.8	44.9	39.6	37.0	37.0	37.0
50°	3089.9	2741.3	657.6	79.2	58.1	50.2	42.3	37.0	34.3	31.7	31.7
52.5°	3322.3	2939.3	552.0	71.3	52.8	44.9	39.6	34.3	29.1	26.4	26.4
55°	3581.1	3140.0	456.9	63.4	50.2	42.3	34.3	29.1	23.8	21.1	21.1
57.5°	3871.6	3335.5	369.7	58.1	47.5	37.0	29.1	23.8	18.5	15.8	15.8
60°	4159.4	3491.3	295.8	52.8	42.3	34.3	26.4	18.5	13.2	10.6	10.6
62.5°	4447.3	3596.9	227.1	47.5	39.6	29.1	21.1	13.2	7.9	5.3	5.3
65°	4566.1	3567.9	169.0	42.3	34.3	23.8	18.5	13.2	7.9	5.3	5.3
67.5°	4236.0	3208.7	118.8	42.3	31.7	23.8	15.8	10.6	5.3	2.6	2.6
70°	3306.4	2477.2	87.2	42.3	31.7	23.8	15.8	10.6	5.3	2.6	2.6
72.5°	1875.0	1378.6	66.0	37.0	29.1	21.1	15.8	10.6	5.3	2.6	2.6
75°	668.2	443.7	50.2	34.3	26.4	18.5	15.8	10.6	5.3	2.6	2.6
77.5°	161.1	113.6	39.6	29.1	23.8	18.5	13.2	10.6	7.9	2.6	2.6
80°	66.0	47.5	31.7	23.8	18.5	15.8	13.2	10.6	5.3	2.6	2.6
82.5°	29.1	23.8	13.2	13.2	10.6	10.6	10.6	10.6	5.3	2.6	2.6
85°	13.2	10.6	5.3	5.3	2.6	2.6	2.6	5.3	5.3	2.6	2.6
87.5°	7.9	5.3	5.3	5.3	2.6	2.6	2.6	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)