

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: P573447

Luminaire Tested: **ARCH-S-PA2-80-722-U-T2U-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573447  
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-PA2-80-722-U-T2U-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 820mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

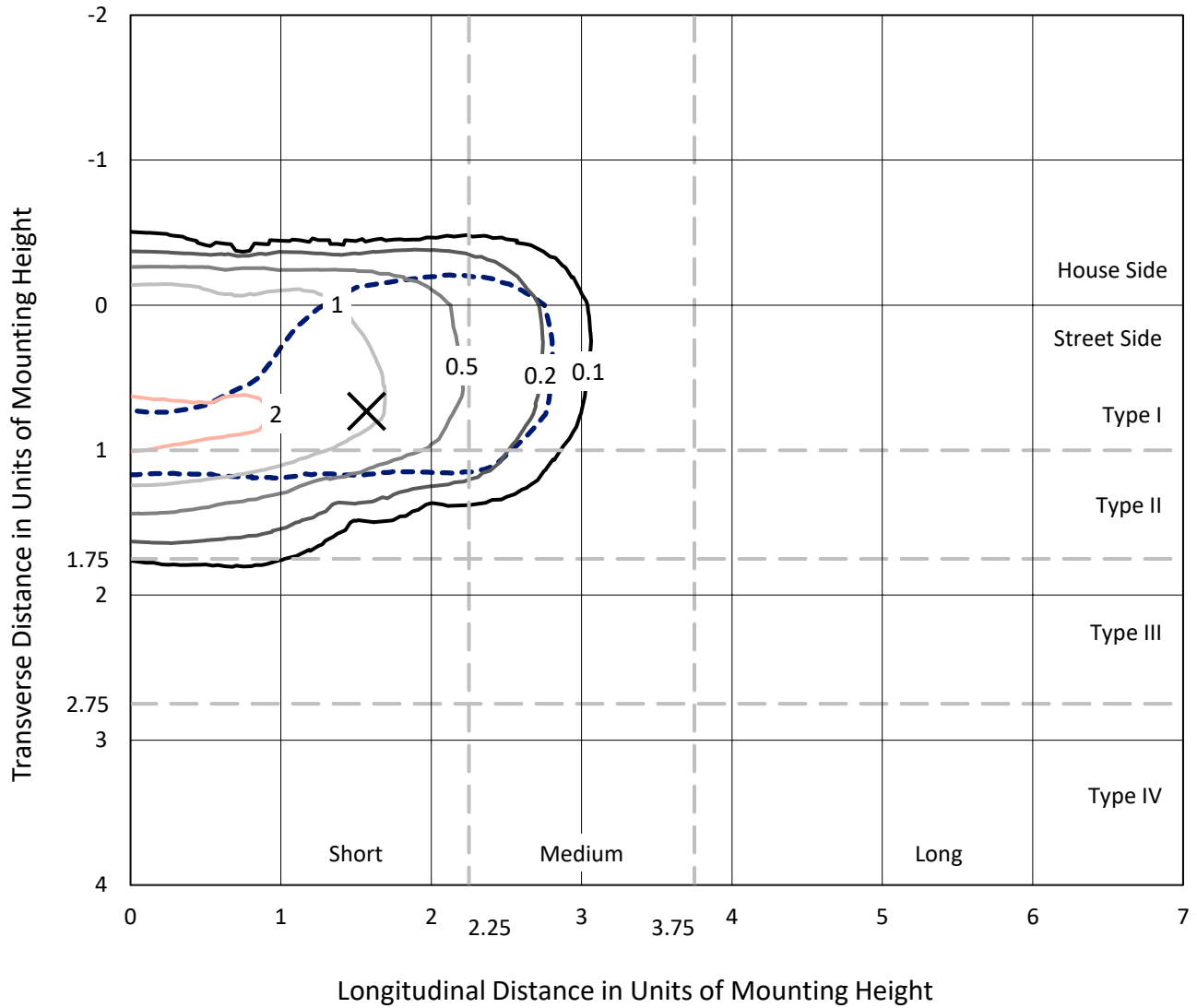
Lumens per Lamp: N/A  
Luminaire Lumens: 5976 lumens  
Efficiency: N/A  
Efficacy: 72.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 83  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

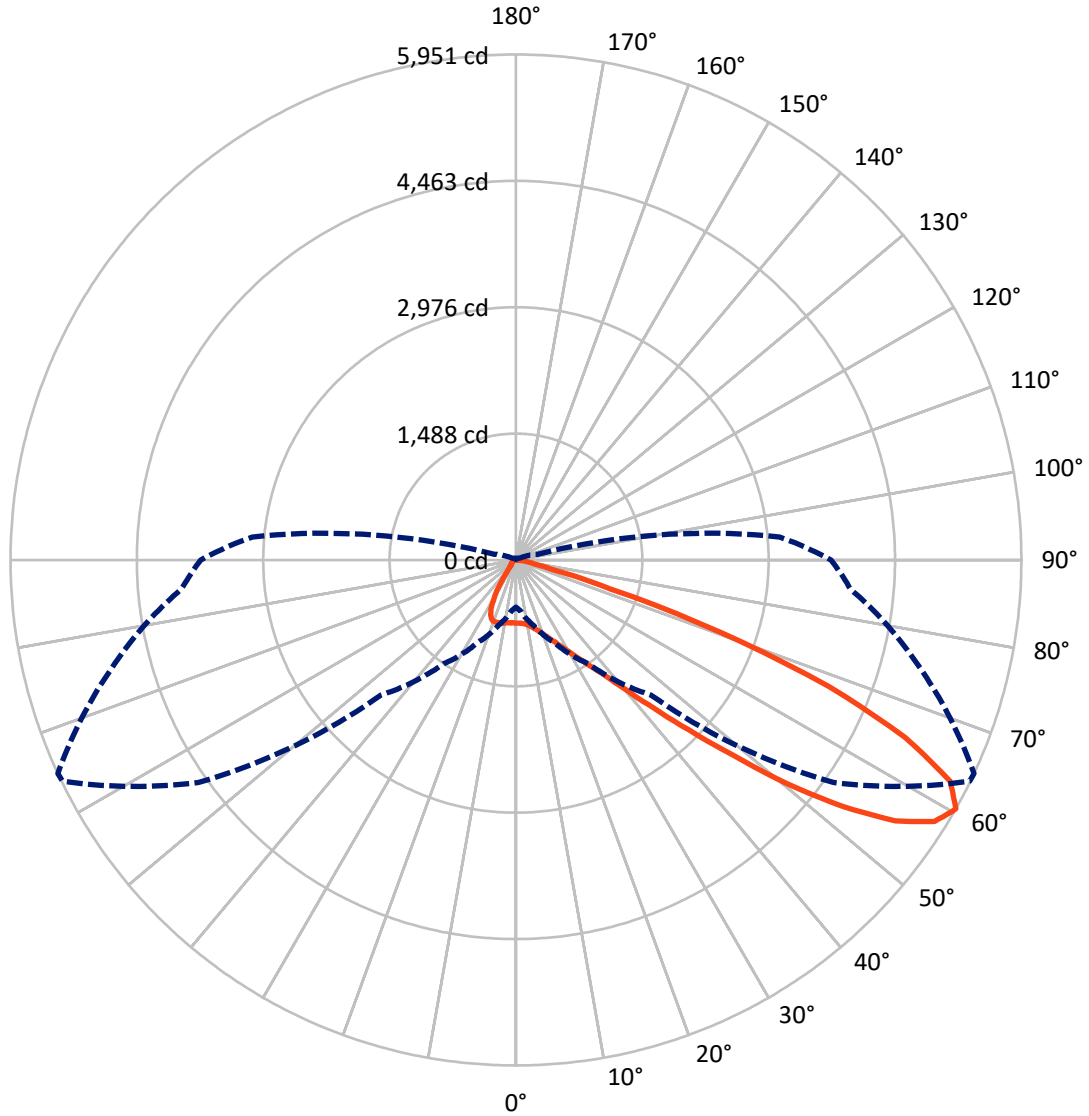
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type 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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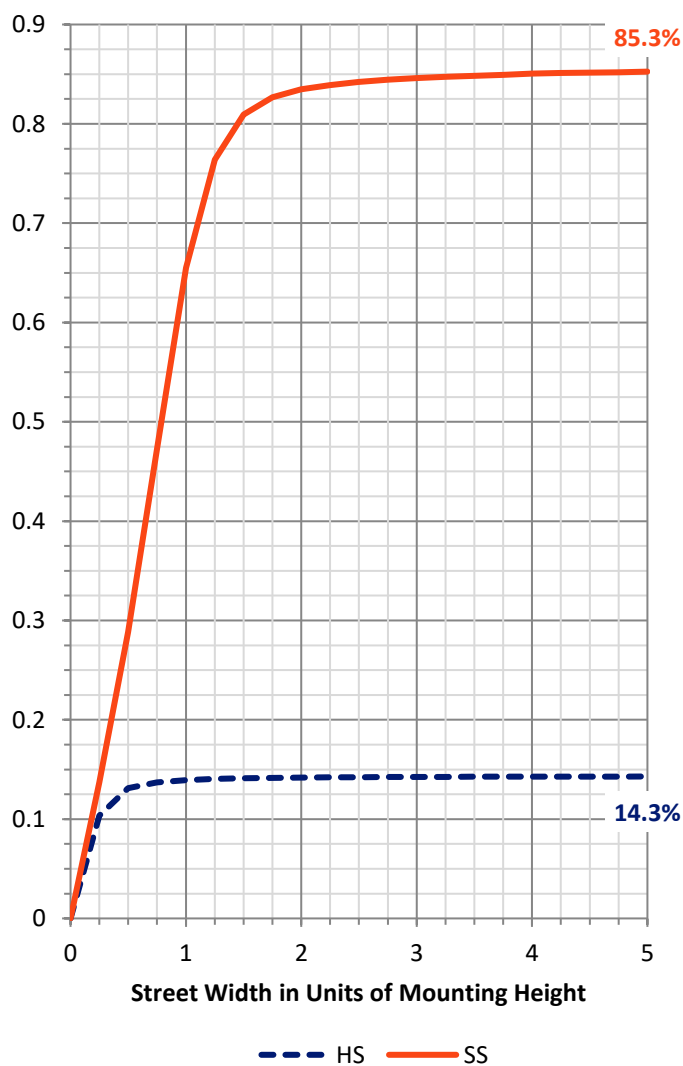
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	865.2	0.0	865.2
	% Fixture	14.5	0.0	14.5
<b>Street Side</b>	Lumens	5110.8	0.0	5110.8
	% Fixture	85.5	0.0	85.5
<b>Total</b>	Lumens	5976.0	0.0	5976.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.4	1.2
10°-20°	199.6	3.3
20°-30°	339.1	5.7
30°-40°	699.7	11.7
40°-50°	1407.1	23.5
50°-60°	1721.9	28.8
60°-70°	1218.2	20.4
70°-80°	293.6	4.9
80°-90°	26.5	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°	5976.0	100.0
0°-180°	5976.0	100.0

**Coefficient of Utilization**

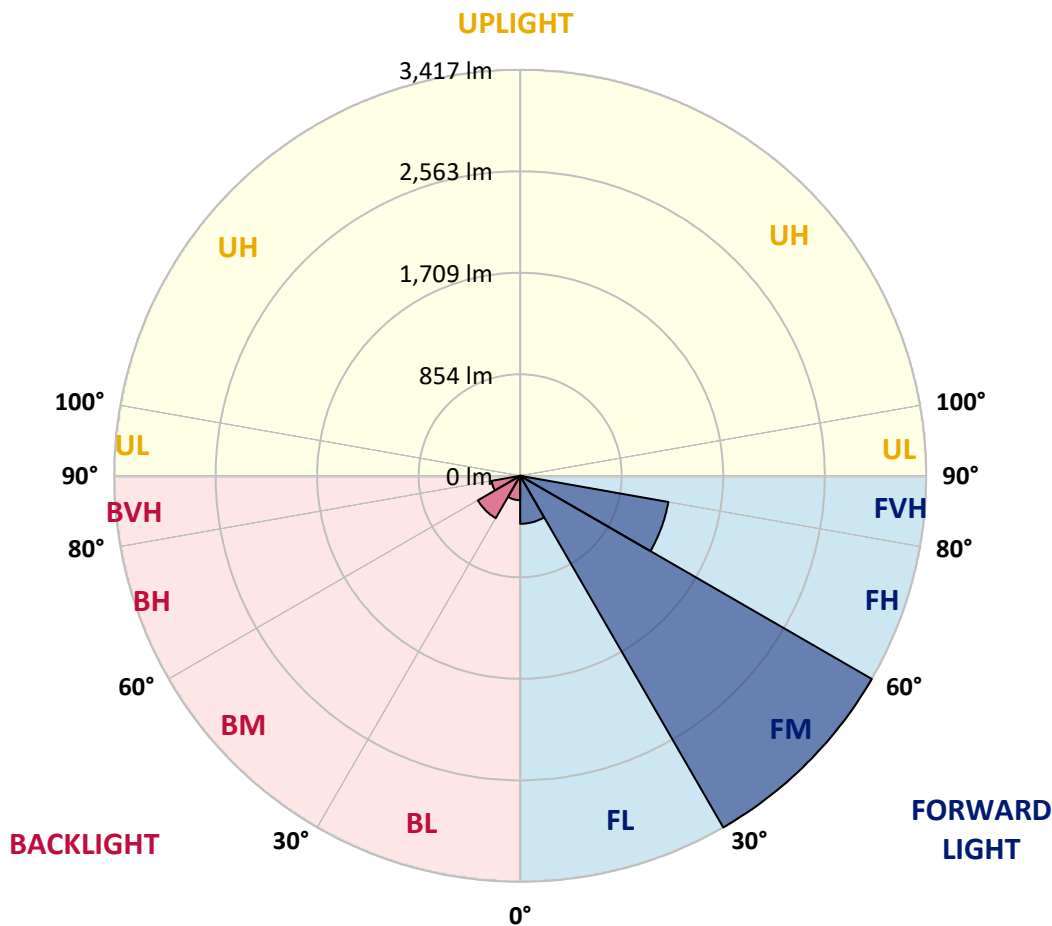


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	404.0	6.8			
FM (30°-60°)	3417.3	57.2			
FH (60°-80°)	1266.5	21.2			G1/1800
FVH (80°-90°)	23.1	0.4			G1/100
BL (0°-30°)	205.1	3.4	B1/500		
BM (30°-60°)	411.4	6.9	B1/1000		
BH (60°-80°)	245.2	4.1	B1/500		G1/500
BVH (80°-90°)	3.5	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°	744.5	744.5	744.5	744.5	744.5	744.5	744.5	744.5	744.5	744.5	744.5
2.5°	746.8	744.5	744.5	744.5	746.8	746.8	749.2	744.5	744.5	744.5	744.5
5°	742.1	739.7	739.7	742.1	744.5	744.5	749.2	749.2	749.2	751.5	751.5
7.5°	751.5	746.8	746.8	749.2	751.5	751.5	756.2	758.6	758.6	763.3	765.7
10°	763.3	761.0	761.0	765.7	770.4	770.4	777.4	777.4	777.4	782.2	784.5
12.5°	779.8	777.4	777.4	784.5	791.6	796.3	801.0	803.4	805.7	805.7	805.7
15°	803.4	801.0	801.0	808.1	817.5	829.3	836.3	836.3	841.1	838.7	829.3
17.5°	836.3	834.0	836.3	841.1	852.8	864.6	878.7	881.1	878.7	874.0	859.9
20°	890.5	883.5	888.2	899.9	899.9	907.0	925.9	932.9	935.3	921.2	895.2
22.5°	947.1	947.1	951.8	965.9	956.5	965.9	982.4	994.2	998.9	987.1	944.7
25°	1053.1	1057.8	1050.7	1046.0	1022.5	1027.2	1048.4	1071.9	1071.9	1062.5	1001.3
27.5°	1286.3	1281.6	1232.1	1163.8	1102.6	1107.3	1128.5	1159.1	1161.5	1140.2	1057.8
30°	1620.9	1625.6	1529.0	1373.5	1239.2	1203.9	1227.4	1262.8	1267.5	1232.1	1130.8
32.5°	2143.9	2103.8	1924.8	1717.4	1465.4	1338.1	1347.6	1385.3	1399.4	1368.8	1246.3
35°	2820.0	2725.8	2457.2	2200.4	1835.2	1578.4	1505.4	1545.5	1552.5	1536.0	1390.0
37.5°	3222.9	3147.5	2973.1	2739.9	2311.1	1898.8	1712.7	1752.8	1745.7	1712.7	1533.7
40°	3472.6	3430.2	3335.9	3227.6	2954.3	2403.0	2054.3	2021.4	2023.7	1976.6	1766.9
42.5°	3613.9	3576.2	3540.9	3569.2	3489.1	3317.1	2549.1	2398.3	2384.2	2294.6	2037.8
45°	3621.0	3564.5	3606.9	3771.8	3899.0	4127.5	3194.6	2845.9	2853.0	2704.6	2374.7
47.5°	3350.1	3305.3	3427.8	3750.6	4172.3	4657.6	3946.1	3458.4	3425.5	3133.3	2716.3
50°	2815.3	2812.9	2975.5	3432.5	4172.3	4930.9	4751.8	4177.0	4141.6	3580.9	3027.3
52.5°	2228.7	2273.4	2384.2	2817.6	3788.3	4905.0	5345.5	4919.1	4820.1	3979.1	3286.5
55°	1733.9	1717.4	1851.7	2150.9	3003.8	4457.3	5538.7	5503.4	5420.9	4332.5	3515.0
57.5°	1064.9	1126.1	1307.5	1573.7	2186.3	3505.6	5260.7	5859.1	5809.6	4662.3	3752.9
60°	553.6	600.8	796.3	1074.3	1493.6	2247.5	4565.7	5941.5	5951.0	4928.5	3955.5
62.5°	348.7	346.3	435.8	753.9	961.2	1262.8	3545.6	5649.4	5738.9	5133.5	4148.7
65°	261.5	263.9	299.2	499.4	652.6	659.6	2103.8	4886.1	5034.5	5187.7	4214.7
67.5°	242.7	245.0	261.5	327.5	490.0	440.6	925.9	3767.1	3974.4	4688.2	3960.2
70°	216.7	219.1	245.0	270.9	369.9	322.8	417.0	2268.7	2556.1	3401.9	3168.7
72.5°	169.6	174.3	205.0	256.8	275.6	245.0	289.8	1003.6	1170.9	1870.6	1814.0
75°	124.9	127.2	155.5	197.9	242.7	174.3	223.8	398.1	435.8	702.1	598.4
77.5°	87.2	87.2	108.4	148.4	202.6	122.5	160.2	214.4	219.1	261.5	172.0
80°	54.2	56.5	68.3	101.3	124.9	117.8	98.9	143.7	143.7	136.6	70.7
82.5°	30.6	33.0	47.1	68.3	84.8	80.1	63.6	82.5	84.8	87.2	40.1
85°	14.1	16.5	28.3	42.4	49.5	37.7	37.7	42.4	42.4	56.5	23.6
87.5°	2.4	2.4	14.1	18.8	16.5	18.8	18.8	23.6	23.6	28.3	11.8
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°	744.5	744.5	744.5	744.5	744.5	744.5	744.5	744.5	744.5	744.5	744.5
2.5°	742.1	742.1	742.1	739.7	739.7	737.4	732.7	732.7	732.7	732.7	735.0
5°	751.5	749.2	746.8	739.7	735.0	725.6	716.2	713.8	706.8	706.8	709.1
7.5°	763.3	763.3	756.2	744.5	732.7	716.2	699.7	687.9	676.1	673.8	671.4
10°	784.5	779.8	772.7	751.5	732.7	706.8	680.9	650.2	626.7	614.9	610.2
12.5°	801.0	798.6	784.5	761.0	730.3	690.3	631.4	560.7	504.2	473.5	473.5
15°	824.6	819.8	798.6	765.7	723.3	629.0	508.9	400.5	339.2	306.3	301.6
17.5°	848.1	838.7	812.8	768.0	692.6	518.3	355.7	256.8	214.4	197.9	193.2
20°	876.4	859.9	822.2	770.4	617.2	376.9	230.9	172.0	155.5	148.4	150.8
22.5°	914.1	885.8	831.6	756.2	504.2	245.0	162.6	139.0	129.6	122.5	122.5
25°	961.2	921.2	848.1	716.2	365.2	164.9	129.6	115.4	106.0	101.3	98.9
27.5°	1003.6	954.1	864.6	645.5	233.2	129.6	108.4	96.6	87.2	84.8	82.5
30°	1060.1	991.8	881.1	532.4	153.1	106.0	91.9	80.1	73.0	70.7	70.7
32.5°	1156.7	1064.9	911.7	405.2	115.4	91.9	77.7	68.3	63.6	61.3	61.3
35°	1269.8	1154.4	937.6	282.7	98.9	77.7	66.0	58.9	56.5	54.2	54.2
37.5°	1387.6	1260.4	942.4	179.0	87.2	68.3	58.9	54.2	49.5	49.5	49.5
40°	1599.6	1446.5	921.2	120.2	75.4	61.3	51.8	49.5	44.8	44.8	44.8
42.5°	1847.0	1672.7	867.0	96.6	68.3	54.2	49.5	44.8	40.1	40.1	37.7
45°	2167.4	1929.5	775.1	84.8	61.3	49.5	44.8	40.1	37.7	35.3	35.3
47.5°	2469.0	2221.6	687.9	75.4	56.5	47.1	40.1	35.3	33.0	33.0	33.0
50°	2756.4	2445.4	586.6	70.7	51.8	44.8	37.7	33.0	30.6	28.3	28.3
52.5°	2963.7	2622.1	492.4	63.6	47.1	40.1	35.3	30.6	25.9	23.6	23.6
55°	3194.6	2801.1	407.6	56.5	44.8	37.7	30.6	25.9	21.2	18.8	18.8
57.5°	3453.7	2975.5	329.8	51.8	42.4	33.0	25.9	21.2	16.5	14.1	14.1
60°	3710.5	3114.5	263.9	47.1	37.7	30.6	23.6	16.5	11.8	9.4	9.4
62.5°	3967.3	3208.7	202.6	42.4	35.3	25.9	18.8	11.8	7.1	4.7	4.7
65°	4073.3	3182.8	150.8	37.7	30.6	21.2	16.5	11.8	7.1	4.7	4.7
67.5°	3778.8	2862.4	106.0	37.7	28.3	21.2	14.1	9.4	4.7	2.4	2.4
70°	2949.6	2209.8	77.7	37.7	28.3	21.2	14.1	9.4	4.7	2.4	2.4
72.5°	1672.7	1229.8	58.9	33.0	25.9	18.8	14.1	9.4	4.7	2.4	2.4
75°	596.0	395.8	44.8	30.6	23.6	16.5	14.1	9.4	4.7	2.4	2.4
77.5°	143.7	101.3	35.3	25.9	21.2	16.5	11.8	9.4	7.1	2.4	2.4
80°	58.9	42.4	28.3	21.2	16.5	14.1	11.8	9.4	4.7	2.4	2.4
82.5°	25.9	21.2	11.8	11.8	9.4	9.4	9.4	9.4	4.7	2.4	2.4
85°	11.8	9.4	4.7	4.7	2.4	2.4	2.4	4.7	4.7	2.4	2.4
87.5°	7.1	4.7	4.7	4.7	2.4	2.4	2.4	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)