

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: P573449

Luminaire Tested: **ARCH-S-PA2-80-722-U-T3-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573449  
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-PA2-80-722-U-T3-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 820mA 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: 6473 lumens  
Efficiency: N/A  
Efficacy: 78.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

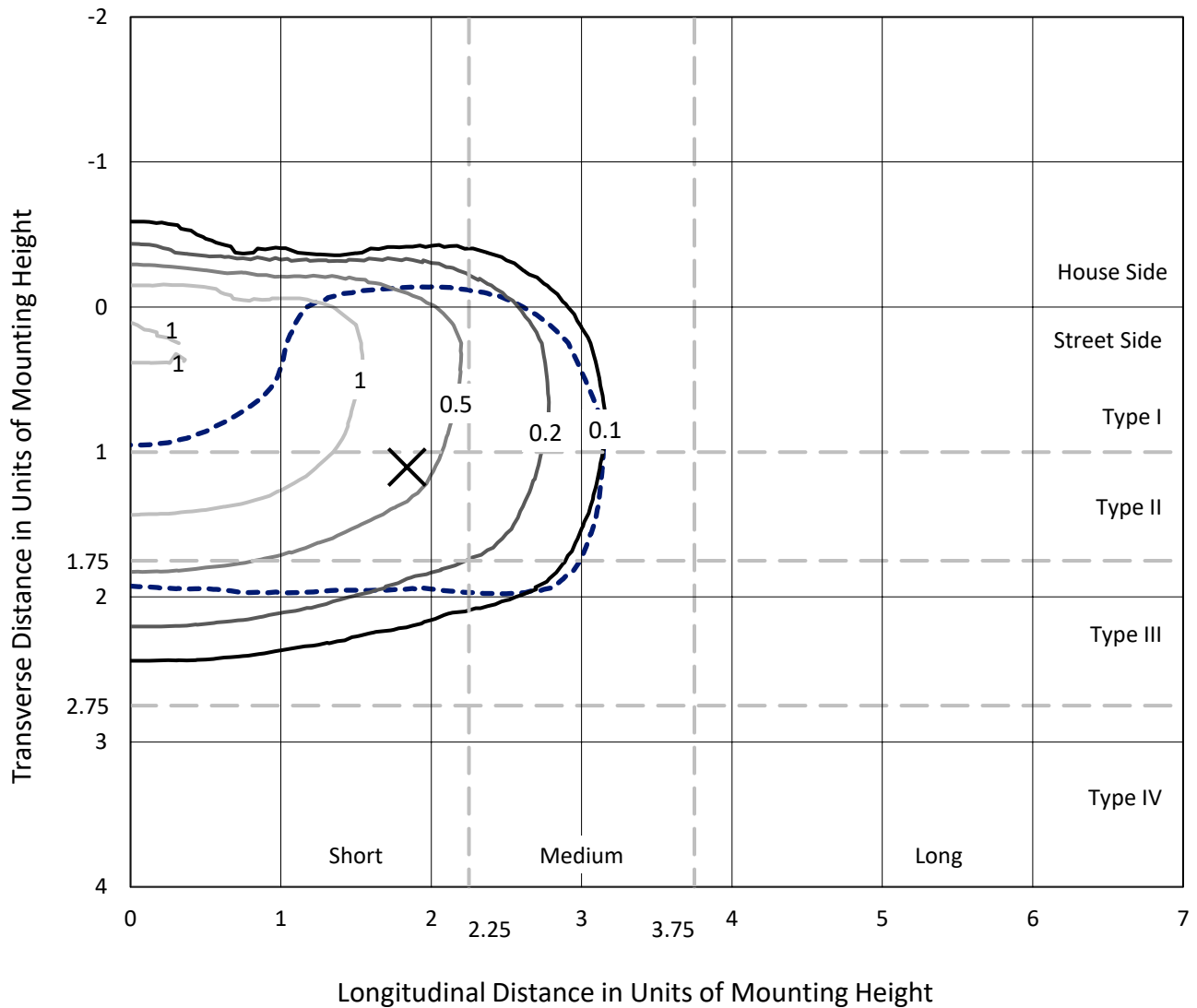
Input Watts (W): 83  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

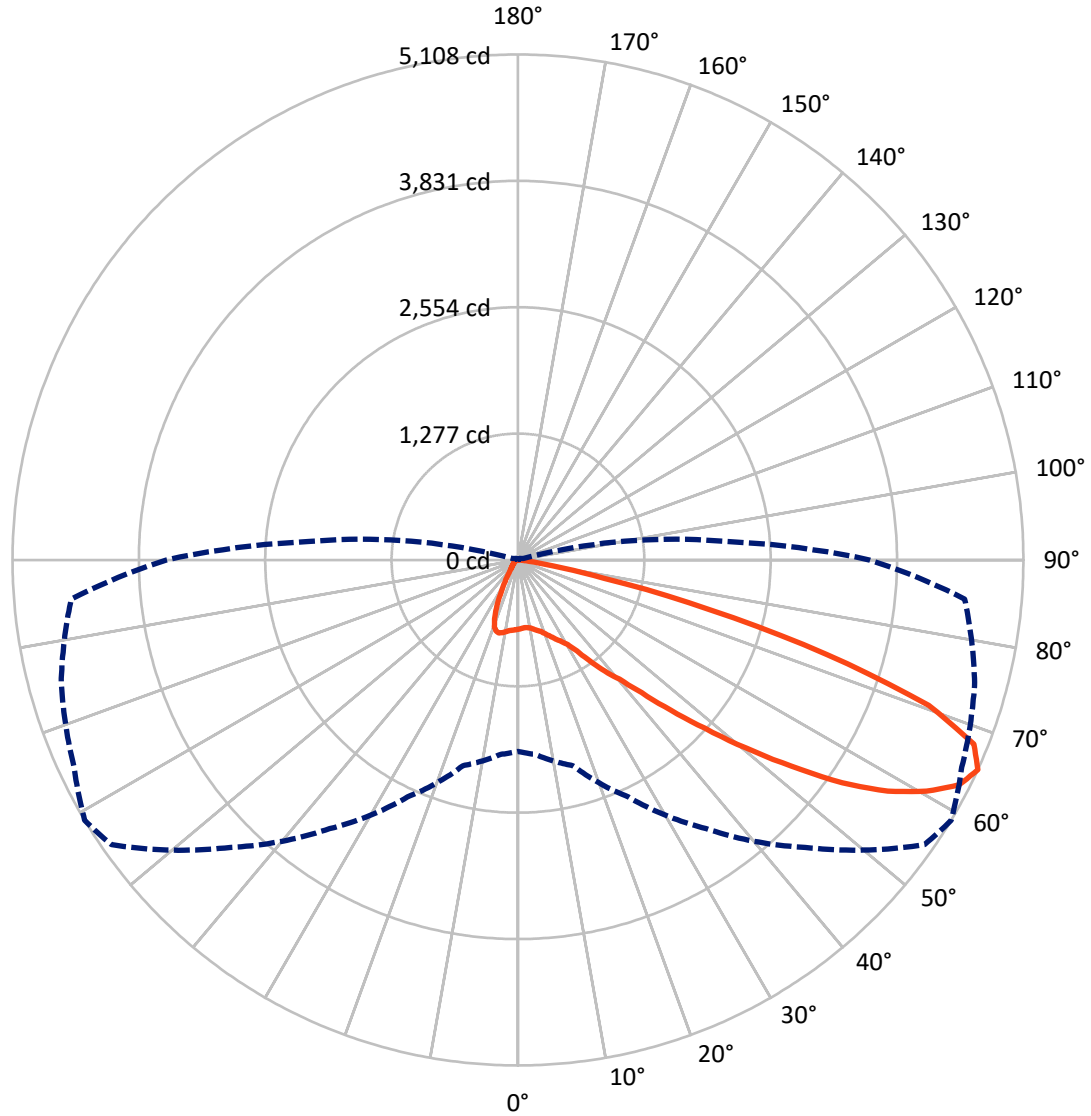
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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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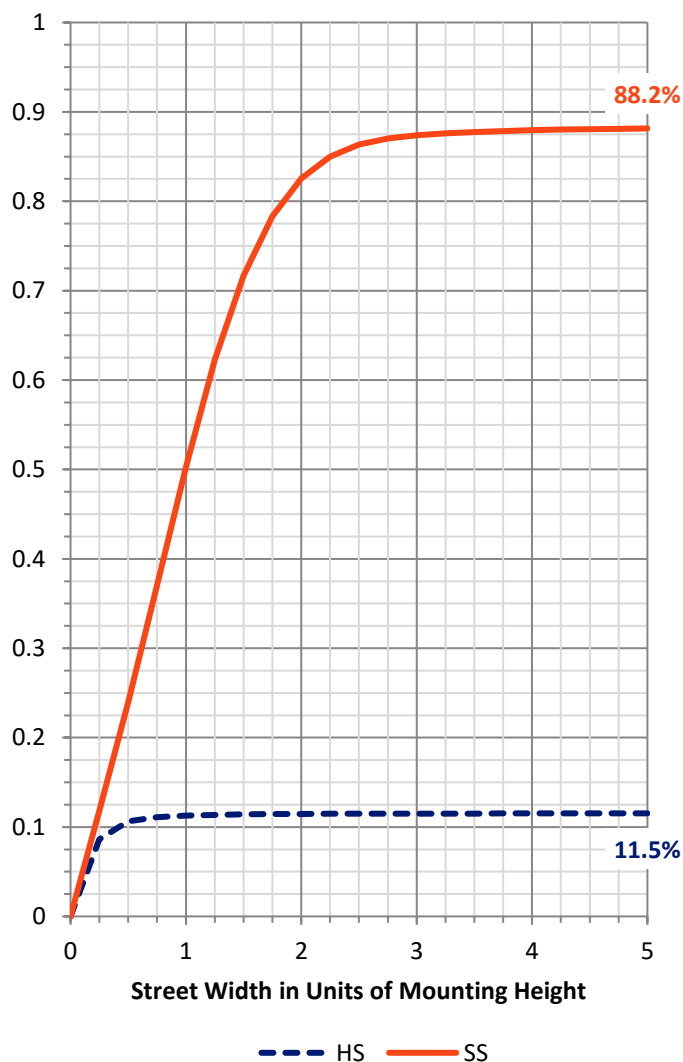
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	755.2	0.0	755.2
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	5717.9	0.0	5717.9
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	6473.0	0.0	6473.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.1	1.0
10°-20°	187.8	2.9
20°-30°	318.9	4.9
30°-40°	565.0	8.7
40°-50°	1065.7	16.5
50°-60°	1803.2	27.9
60°-70°	1874.7	29.0
70°-80°	562.2	8.7
80°-90°	29.5	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°	6473.0	100.0
0°-180°	6473.0	100.0

**Coefficient of Utilization**



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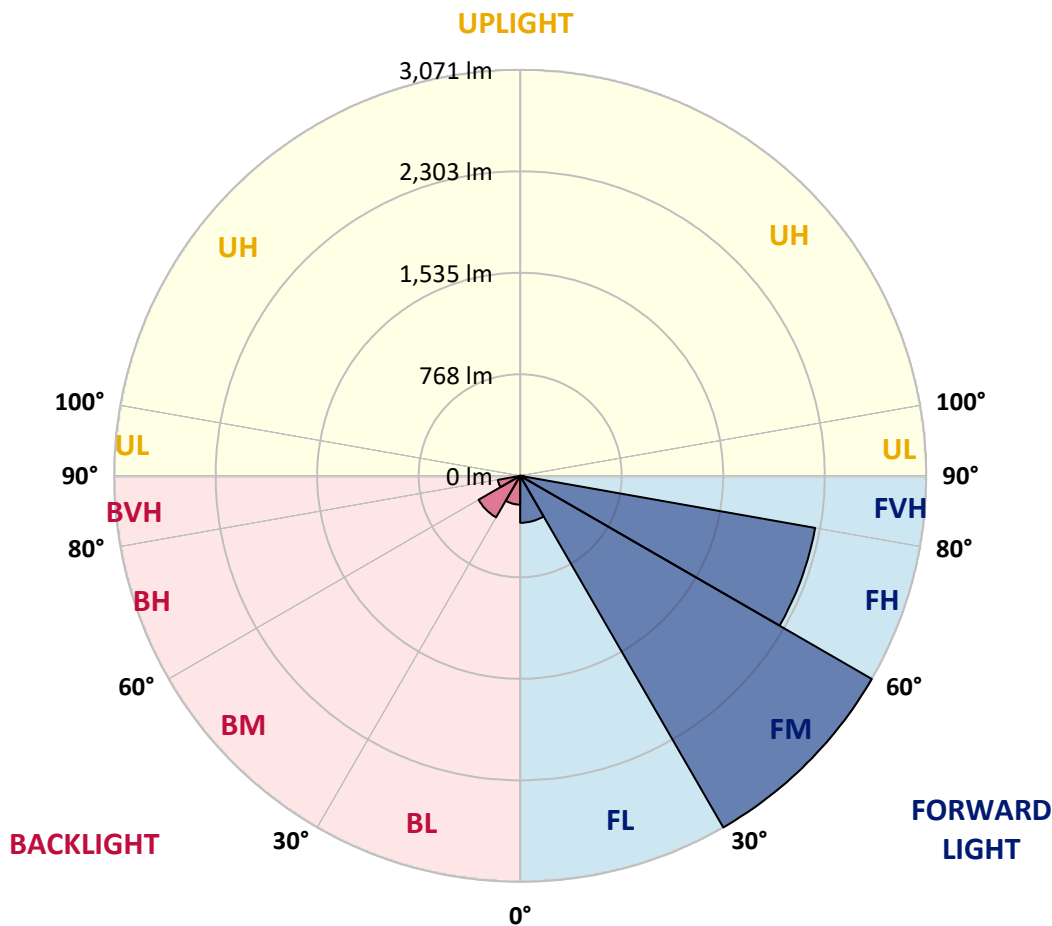
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	355.0	5.5			
FM (30°-60°)	3070.8	47.4			
FH (60°-80°)	2265.1	35.0			G2/5000
FVH (80°-90°)	27.0	0.4			G1/100
BL (0°-30°)	217.8	3.4	B1/500		
BM (30°-60°)	363.0	5.6	B1/1000		
BH (60°-80°)	171.8	2.7	B1/500		G1/500
BVH (80°-90°)	2.5	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°	699.5	699.5	699.5	699.5	699.5	699.5	699.5	699.5	699.5	699.5	699.5
2.5°	680.6	678.3	678.3	683.0	685.3	687.7	692.4	692.4	692.4	697.1	699.5
5°	647.7	647.7	650.0	654.7	664.1	671.2	685.3	687.7	690.1	701.8	706.5
7.5°	626.5	626.5	628.8	638.2	650.0	666.5	685.3	690.1	697.1	713.6	725.4
10°	624.1	621.8	626.5	635.9	650.0	671.2	692.4	699.5	713.6	734.8	751.3
12.5°	631.2	628.8	633.5	642.9	657.1	678.3	706.5	718.3	734.8	763.1	786.6
15°	635.9	633.5	638.2	650.0	666.5	692.4	725.4	739.5	760.7	800.7	824.3
17.5°	650.0	647.7	650.0	659.4	675.9	704.2	746.6	760.7	796.0	840.8	866.7
20°	713.6	711.2	697.1	692.4	694.8	720.7	774.8	798.4	840.8	897.3	916.1
22.5°	845.5	836.1	810.2	767.8	739.5	748.9	810.2	836.1	892.6	956.2	970.3
25°	1022.1	1015.1	977.4	904.4	824.3	800.7	850.2	885.5	953.8	1024.5	1019.8
27.5°	1222.3	1208.2	1172.9	1071.6	963.2	885.5	899.7	930.3	1005.6	1081.0	1057.5
30°	1396.6	1391.9	1351.8	1267.1	1139.9	1024.5	975.0	991.5	1059.8	1139.9	1111.6
32.5°	1556.7	1542.6	1509.6	1429.6	1311.8	1194.0	1095.1	1095.1	1151.7	1245.9	1203.5
35°	1733.4	1724.0	1683.9	1603.8	1490.8	1351.8	1262.3	1252.9	1300.0	1406.0	1314.2
37.5°	1914.7	1891.2	1872.3	1789.9	1676.8	1556.7	1448.4	1427.2	1450.8	1528.5	1415.4
40°	2140.8	2140.8	2098.4	2023.1	1917.1	1789.9	1639.2	1585.0	1577.9	1679.2	1592.1
42.5°	2404.6	2397.5	2362.2	2291.5	2190.3	2072.5	1881.7	1832.3	1827.6	1950.0	1846.4
45°	2708.4	2703.7	2661.3	2602.4	2531.8	2402.2	2213.8	2164.4	2136.1	2277.4	2154.9
47.5°	2986.3	2969.8	2955.7	2962.7	2922.7	2776.7	2600.1	2541.2	2538.8	2649.5	2491.7
50°	3177.1	3167.6	3217.1	3264.2	3339.6	3247.7	3038.1	2986.3	2946.3	3092.3	2842.6
52.5°	3301.9	3297.2	3396.1	3530.3	3685.8	3678.7	3492.6	3462.0	3429.1	3469.1	3155.9
55°	3351.3	3351.3	3469.1	3716.4	3989.6	4107.3	4020.2	3977.8	3862.4	3780.0	3499.7
57.5°	3292.5	3285.4	3438.5	3761.1	4178.0	4420.6	4458.3	4408.8	4227.4	4135.6	3881.2
60°	3042.8	3047.5	3228.9	3636.3	4163.9	4547.7	4790.3	4745.6	4564.2	4427.6	4201.5
62.5°	2576.5	2616.5	2807.3	3250.1	3862.4	4446.5	4981.1	5004.6	4809.2	4639.6	4486.5
65°	1935.9	1971.2	2152.6	2642.4	3313.7	4107.3	5016.4	5108.3	4950.5	4778.5	4531.3
67.5°	1177.6	1189.3	1410.7	1780.5	2439.9	3422.0	4769.1	4969.3	4856.3	4573.7	4088.5
70°	548.7	579.4	687.7	972.7	1545.0	2520.0	4121.5	4404.1	4276.9	3926.0	3108.8
72.5°	214.3	223.7	292.0	449.8	819.6	1585.0	3075.8	3264.2	3177.1	2788.5	1853.5
75°	106.0	113.0	141.3	214.3	374.5	654.7	1879.4	2001.9	1858.2	1401.3	784.3
77.5°	77.7	77.7	94.2	131.9	204.9	242.6	791.3	887.9	838.4	541.7	214.3
80°	51.8	56.5	65.9	89.5	129.5	117.8	299.1	355.6	296.7	167.2	75.4
82.5°	30.6	33.0	49.5	63.6	87.1	68.3	101.3	113.0	122.5	82.4	35.3
85°	16.5	16.5	33.0	47.1	47.1	30.6	35.3	40.0	47.1	49.5	18.8
87.5°	4.7	4.7	21.2	28.3	18.8	16.5	18.8	18.8	21.2	25.9	9.4
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°	699.5	699.5	699.5	699.5	699.5	699.5	699.5	699.5	699.5	699.5	699.5
2.5°	701.8	701.8	704.2	704.2	706.5	706.5	706.5	706.5	708.9	711.2	711.2
5°	708.9	711.2	711.2	711.2	711.2	706.5	704.2	701.8	701.8	704.2	704.2
7.5°	727.7	730.1	727.7	723.0	716.0	706.5	697.1	697.1	694.8	697.1	694.8
10°	756.0	756.0	753.6	741.9	730.1	711.2	692.4	678.3	668.9	666.5	661.8
12.5°	791.3	791.3	784.3	763.1	741.9	706.5	657.1	610.0	572.3	555.8	551.1
15°	826.6	826.6	817.2	786.6	744.2	659.4	555.8	456.9	400.4	376.8	362.7
17.5°	869.0	864.3	847.8	805.5	718.3	565.2	398.0	296.7	252.0	230.8	230.8
20°	913.8	909.1	878.5	807.8	652.4	405.1	259.1	204.9	193.1	188.4	188.4
22.5°	963.2	951.5	904.4	789.0	513.4	275.5	195.5	181.3	176.6	174.3	174.3
25°	1003.3	984.4	923.2	737.2	367.4	193.1	171.9	167.2	157.8	155.4	150.7
27.5°	1033.9	1005.6	930.3	626.5	242.6	160.1	153.1	143.7	134.2	124.8	124.8
30°	1073.9	1038.6	935.0	487.5	164.9	139.0	131.9	120.1	108.3	98.9	98.9
32.5°	1154.0	1102.2	937.3	341.5	136.6	122.5	108.3	94.2	82.4	77.7	75.4
35°	1241.2	1170.5	911.4	221.4	120.1	103.6	87.1	75.4	63.6	61.2	61.2
37.5°	1337.7	1271.8	854.9	150.7	106.0	87.1	70.7	58.9	51.8	49.5	49.5
40°	1500.2	1422.5	760.7	120.1	91.8	73.0	58.9	49.5	44.7	42.4	42.4
42.5°	1733.4	1599.1	642.9	103.6	80.1	61.2	47.1	40.0	37.7	35.3	35.3
45°	2001.9	1797.0	506.4	94.2	70.7	51.8	40.0	35.3	33.0	30.6	30.6
47.5°	2310.4	2001.9	400.4	82.4	61.2	44.7	35.3	30.6	28.3	25.9	25.9
50°	2602.4	2162.0	301.5	73.0	54.2	37.7	30.6	28.3	25.9	23.6	23.6
52.5°	2842.6	2270.3	228.4	63.6	47.1	33.0	28.3	25.9	21.2	21.2	21.2
55°	3132.3	2355.1	174.3	56.5	42.4	30.6	25.9	21.2	18.8	16.5	16.5
57.5°	3384.3	2385.7	127.2	49.5	37.7	28.3	23.6	18.8	14.1	11.8	11.8
60°	3553.9	2359.8	91.8	42.4	33.0	23.6	18.8	14.1	9.4	7.1	7.1
62.5°	3674.0	2303.3	70.7	37.7	28.3	21.2	16.5	11.8	7.1	4.7	4.7
65°	3553.9	2129.0	56.5	33.0	23.6	18.8	11.8	9.4	4.7	2.4	2.4
67.5°	3073.4	1785.2	44.7	28.3	21.2	16.5	11.8	7.1	2.4	0.0	0.0
70°	2209.1	1274.1	37.7	25.9	18.8	14.1	9.4	4.7	2.4	0.0	0.0
72.5°	1231.7	657.1	35.3	23.6	18.8	14.1	9.4	4.7	2.4	0.0	0.0
75°	499.3	226.1	33.0	23.6	18.8	11.8	9.4	4.7	2.4	0.0	0.0
77.5°	146.0	77.7	28.3	21.2	18.8	14.1	9.4	4.7	2.4	0.0	0.0
80°	51.8	35.3	21.2	18.8	14.1	11.8	9.4	7.1	2.4	0.0	0.0
82.5°	23.6	14.1	9.4	7.1	7.1	7.1	7.1	4.7	2.4	0.0	0.0
85°	9.4	7.1	4.7	2.4	2.4	2.4	2.4	2.4	2.4	0.0	0.0
87.5°	7.1	4.7	2.4	2.4	2.4	2.4	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)