

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: P573463

Luminaire Tested: **ARCH-S-PA2-80-730-U-T2R-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573463  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-80-730-U-T2R-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 820mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

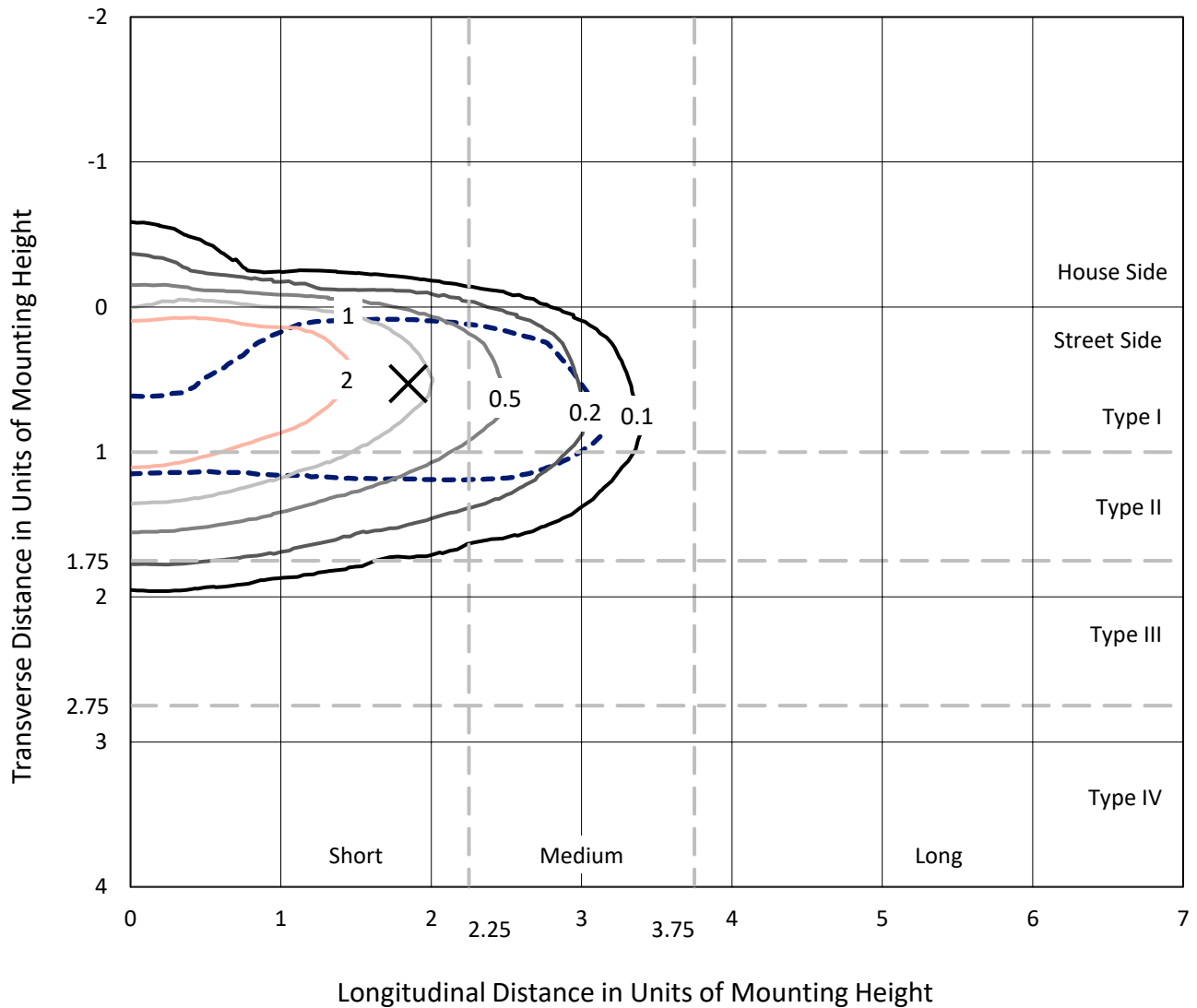
Lumens per Lamp: N/A  
Luminaire Lumens: 8290 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 83  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

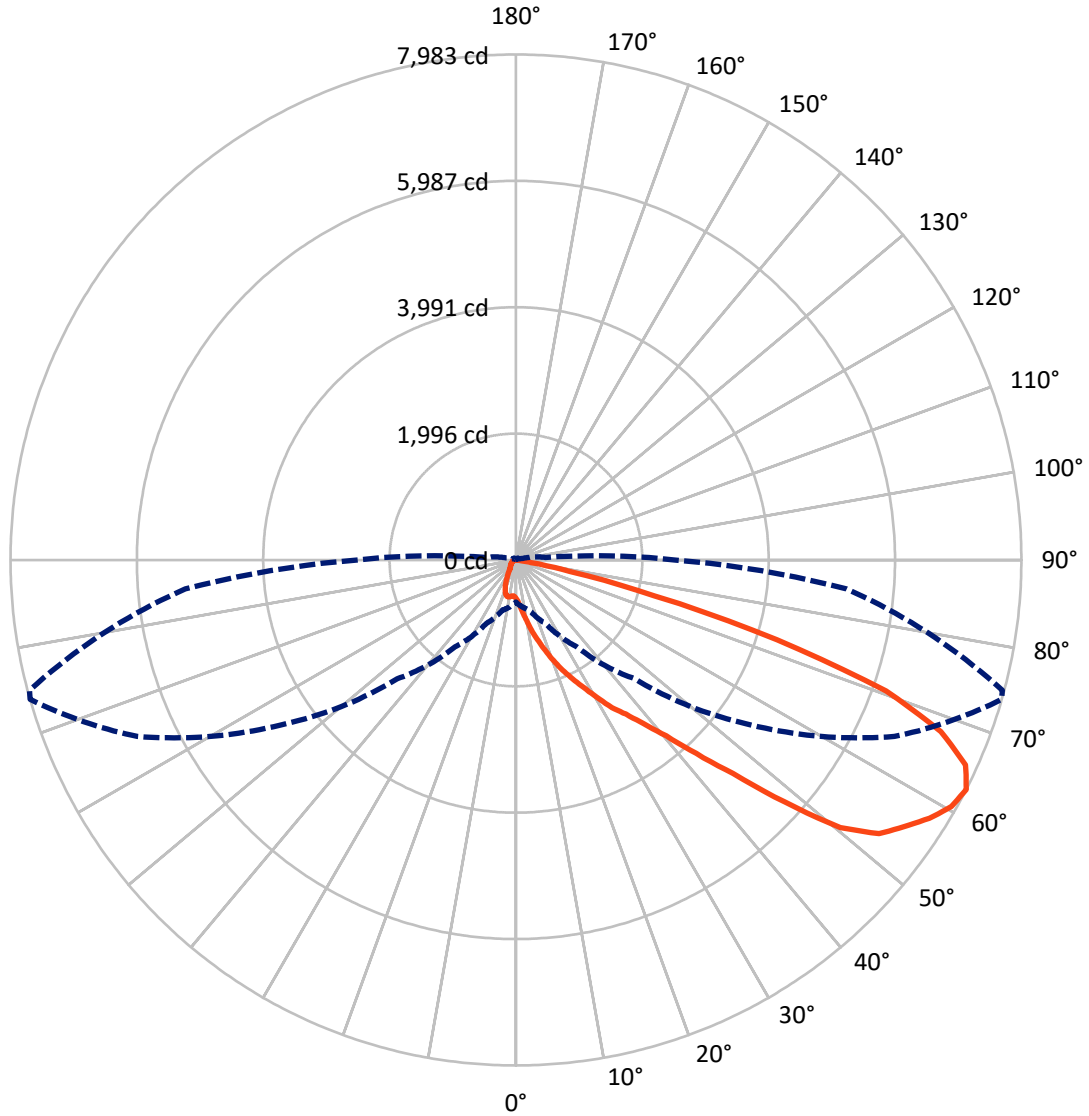
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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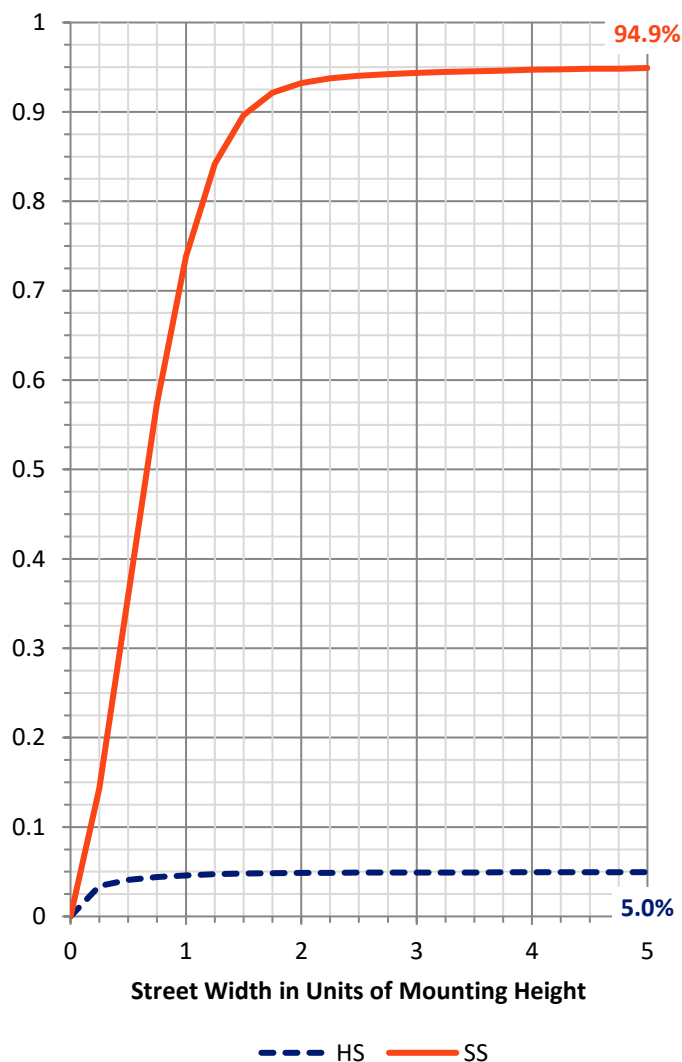
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	413.5	0.0	413.5
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	7876.5	0.0	7876.5
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	8290.0	0.0	8290.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.9	0.9
10°-20°	318.8	3.8
20°-30°	684.1	8.3
30°-40°	1199.9	14.5
40°-50°	1860.1	22.4
50°-60°	2144.4	25.9
60°-70°	1506.5	18.2
70°-80°	469.3	5.7
80°-90°	31.0	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°	8290.0	100.0
0°-180°	8290.0	100.0

**Coefficient of Utilization**



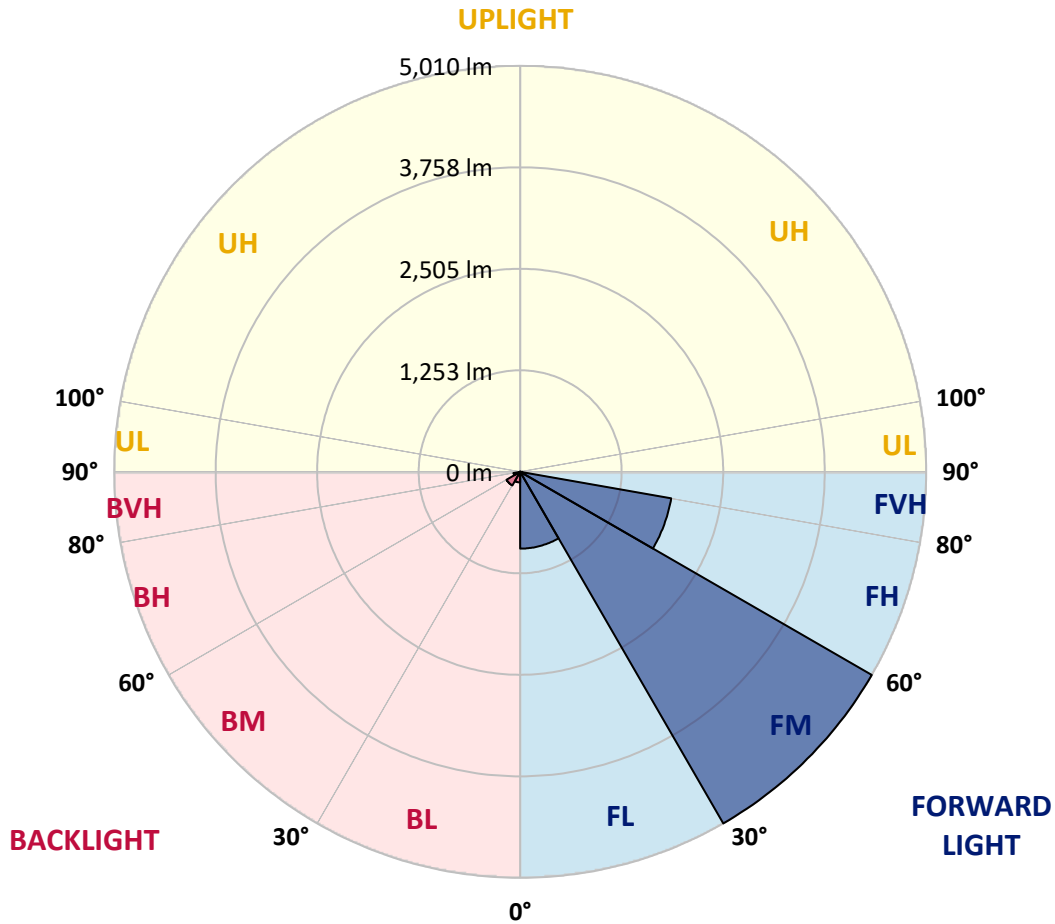
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	947.6	11.4			
FM (30°-60°)	5010.0	60.4			
FH (60°-80°)	1892.2	22.8			G2/5000
FVH (80°-90°)	26.8	0.3			G1/100
BL (0°-30°)	131.2	1.6	B1/500		
BM (30°-60°)	194.3	2.3	B0/220		
BH (60°-80°)	83.7	1.0	B0/110		G0/110
BVH (80°-90°)	4.3	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	606.9	606.9	606.9	606.9	606.9	606.9	606.9	606.9	606.9	606.9	606.9
2.5°	843.2	828.6	811.1	796.5	767.3	746.9	720.6	691.5	659.4	656.5	630.2
5°	1181.6	1137.9	1137.9	1099.9	1056.2	977.4	904.4	814.0	746.9	741.1	671.0
7.5°	1528.8	1493.8	1473.4	1415.0	1345.0	1257.5	1140.8	989.1	866.5	846.1	732.3
10°	1852.7	1826.4	1788.5	1741.8	1680.5	1537.6	1391.7	1193.3	997.8	983.2	805.2
12.5°	2103.6	2071.5	2054.0	2033.5	1954.8	1841.0	1651.3	1400.4	1167.0	1134.9	878.2
15°	2293.2	2278.6	2261.1	2261.1	2220.3	2109.4	1913.9	1622.2	1330.4	1292.5	971.5
17.5°	2444.9	2427.4	2424.5	2442.0	2430.3	2351.6	2167.8	1835.1	1499.6	1470.5	1067.8
20°	2614.1	2590.8	2590.8	2605.4	2602.5	2558.7	2398.2	2080.2	1698.0	1645.5	1178.7
22.5°	2853.4	2838.8	2827.1	2803.8	2786.3	2745.4	2605.4	2319.5	1887.7	1838.1	1292.5
25°	3174.3	3156.8	3104.3	3063.4	2987.6	2926.3	2806.7	2532.4	2080.2	2024.8	1403.3
27.5°	3486.5	3451.5	3401.9	3349.4	3264.8	3159.7	3010.9	2733.8	2281.5	2223.2	1517.1
30°	3816.2	3789.9	3728.6	3644.0	3539.0	3422.3	3244.3	2975.9	2512.0	2447.8	1639.7
32.5°	4078.8	4037.9	3982.5	3900.8	3792.8	3711.1	3518.6	3241.4	2777.5	2692.9	1768.0
35°	4288.8	4256.7	4183.8	4105.0	4023.3	4000.0	3789.9	3457.3	2990.5	2911.7	1905.2
37.5°	4423.0	4390.9	4329.7	4250.9	4218.8	4259.6	4122.5	3752.0	3276.4	3177.2	2062.7
40°	4528.1	4490.1	4440.5	4405.5	4393.9	4507.6	4493.0	4134.2	3652.8	3594.4	2278.6
42.5°	4603.9	4566.0	4533.9	4531.0	4606.8	4828.6	4992.0	4668.1	4178.0	4058.3	2555.8
45°	4507.6	4475.5	4493.0	4595.2	4779.0	5129.1	5595.9	5423.8	4811.1	4726.5	2999.3
47.5°	4239.2	4218.8	4297.6	4484.3	4825.7	5312.9	6179.4	6252.3	5715.5	5587.1	3574.0
50°	3819.1	3816.2	3941.6	4195.5	4679.8	5382.9	6474.1	7048.8	6643.3	6512.0	4040.8
52.5°	3250.2	3238.5	3422.3	3775.3	4335.5	5251.6	6529.5	7366.9	7180.1	7025.5	4335.5
55°	2605.4	2579.1	2797.9	3186.0	3827.8	4869.4	6380.7	7436.9	7436.9	7296.8	4554.3
57.5°	1832.2	1873.1	2054.0	2520.8	3200.6	4297.6	6013.1	7372.7	7696.5	7576.9	4849.0
60°	1155.4	1172.9	1371.3	1747.6	2427.4	3533.2	5356.6	7095.5	7903.7	7833.7	5085.3
62.5°	665.2	720.6	819.8	1105.8	1674.7	2655.0	4545.6	6596.6	7982.5	7953.3	5239.9
65°	405.5	411.4	458.1	624.4	1029.9	1811.8	3638.2	5902.2	7804.5	7830.7	5210.8
67.5°	303.4	303.4	318.0	393.9	586.4	1152.4	2684.2	5059.1	7235.6	7320.2	4936.5
70°	262.6	262.6	265.5	288.8	361.8	682.7	1773.9	4078.8	6202.7	6194.0	4078.8
72.5°	207.1	215.9	233.4	245.1	274.3	399.7	1038.7	2850.5	4309.2	4411.4	2625.8
75°	166.3	169.2	192.6	213.0	230.5	271.3	490.2	1584.2	2261.1	2261.1	1155.4
77.5°	128.4	134.2	148.8	169.2	192.6	192.6	204.2	612.7	875.3	846.1	341.4
80°	81.7	84.6	107.9	134.2	160.5	137.1	110.9	204.2	239.2	230.5	93.4
82.5°	49.6	52.5	70.0	107.9	107.9	75.9	70.0	84.6	75.9	70.0	37.9
85°	14.6	17.5	49.6	70.0	61.3	29.2	35.0	37.9	35.0	32.1	20.4
87.5°	2.9	2.9	14.6	17.5	14.6	14.6	11.7	14.6	14.6	14.6	8.8
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°	606.9	606.9	606.9	606.9	606.9	606.9	606.9	606.9	606.9	606.9	606.9
2.5°	615.6	603.9	580.6	563.1	548.5	533.9	522.2	519.3	513.5	513.5	510.6
5°	641.9	615.6	571.8	542.7	519.3	498.9	481.4	463.9	458.1	452.2	455.1
7.5°	682.7	641.9	580.6	536.8	496.0	449.3	411.4	379.3	355.9	350.1	341.4
10°	735.2	674.0	595.2	525.2	449.3	367.6	315.1	283.0	271.3	256.7	259.7
12.5°	787.7	711.9	606.9	493.1	370.5	288.8	245.1	224.7	215.9	213.0	215.9
15°	849.0	752.7	601.0	434.7	297.6	233.4	207.1	198.4	192.6	192.6	189.6
17.5°	910.3	787.7	580.6	358.9	239.2	198.4	186.7	178.0	172.1	169.2	169.2
20°	977.4	819.8	533.9	285.9	198.4	180.9	169.2	157.5	151.7	151.7	151.7
22.5°	1047.4	843.2	472.6	227.6	178.0	160.5	148.8	140.0	134.2	134.2	134.2
25°	1108.7	854.8	399.7	189.6	163.4	145.9	134.2	125.5	122.5	119.6	119.6
27.5°	1167.0	851.9	323.8	166.3	145.9	131.3	119.6	113.8	107.9	107.9	107.9
30°	1225.4	834.4	256.7	151.7	134.2	116.7	107.9	102.1	99.2	96.3	96.3
32.5°	1275.0	805.2	201.3	140.0	122.5	105.0	96.3	90.4	90.4	87.5	87.5
35°	1324.6	761.5	169.2	131.3	110.9	96.3	87.5	84.6	81.7	81.7	81.7
37.5°	1377.1	706.1	148.8	119.6	99.2	87.5	81.7	78.8	75.9	72.9	72.9
40°	1441.3	650.6	140.0	110.9	90.4	78.8	72.9	70.0	67.1	67.1	67.1
42.5°	1543.4	603.9	131.3	99.2	81.7	72.9	67.1	61.3	61.3	58.4	58.4
45°	1736.0	586.4	122.5	90.4	75.9	64.2	61.3	55.4	52.5	52.5	52.5
47.5°	1986.9	589.3	113.8	81.7	70.0	58.4	55.4	52.5	46.7	46.7	46.7
50°	2194.0	574.8	105.0	75.9	61.3	55.4	49.6	46.7	43.8	43.8	43.8
52.5°	2275.7	548.5	96.3	70.0	58.4	49.6	46.7	43.8	40.8	40.8	40.8
55°	2357.4	536.8	87.5	61.3	52.5	49.6	43.8	40.8	37.9	35.0	35.0
57.5°	2506.2	542.7	78.8	58.4	49.6	46.7	40.8	35.0	29.2	26.3	26.3
60°	2585.0	522.2	72.9	52.5	46.7	43.8	35.0	26.3	20.4	17.5	17.5
62.5°	2517.9	463.9	67.1	49.6	43.8	37.9	26.3	20.4	14.6	8.8	8.8
65°	2331.1	382.2	61.3	46.7	37.9	29.2	23.3	14.6	8.8	5.8	5.8
67.5°	2094.8	300.5	55.4	43.8	35.0	26.3	20.4	11.7	5.8	2.9	2.9
70°	1692.2	215.9	52.5	40.8	32.1	23.3	17.5	11.7	5.8	2.9	2.9
72.5°	1091.2	140.0	46.7	37.9	29.2	23.3	14.6	8.8	5.8	2.9	2.9
75°	504.7	93.4	43.8	35.0	29.2	20.4	14.6	11.7	5.8	2.9	2.9
77.5°	148.8	67.1	40.8	32.1	26.3	20.4	14.6	11.7	5.8	2.9	2.9
80°	61.3	46.7	32.1	29.2	26.3	20.4	14.6	11.7	5.8	2.9	2.9
82.5°	29.2	20.4	14.6	11.7	14.6	14.6	11.7	11.7	5.8	2.9	2.9
85°	14.6	8.8	5.8	5.8	5.8	2.9	2.9	5.8	5.8	2.9	2.9
87.5°	8.8	5.8	5.8	5.8	2.9	2.9	2.9	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)