

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: P572808

Luminaire Tested: **ARCH-S-PA2-120-727-U-T2U-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572808  
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-PA2-120-727-U-T2U-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

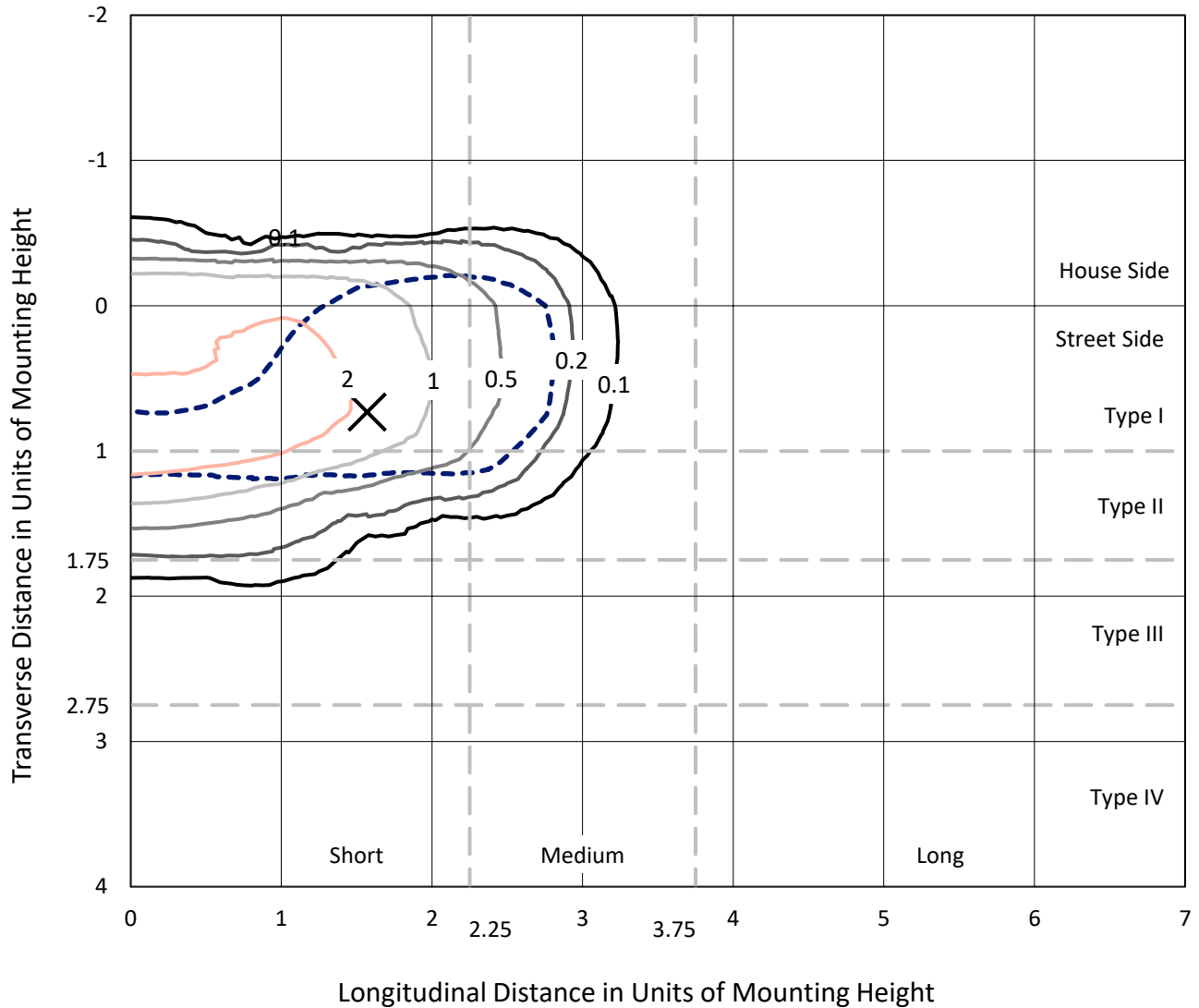
Lumens per Lamp: N/A  
Luminaire Lumens: 8981 lumens  
Efficiency: N/A  
Efficacy: 73.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 122.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

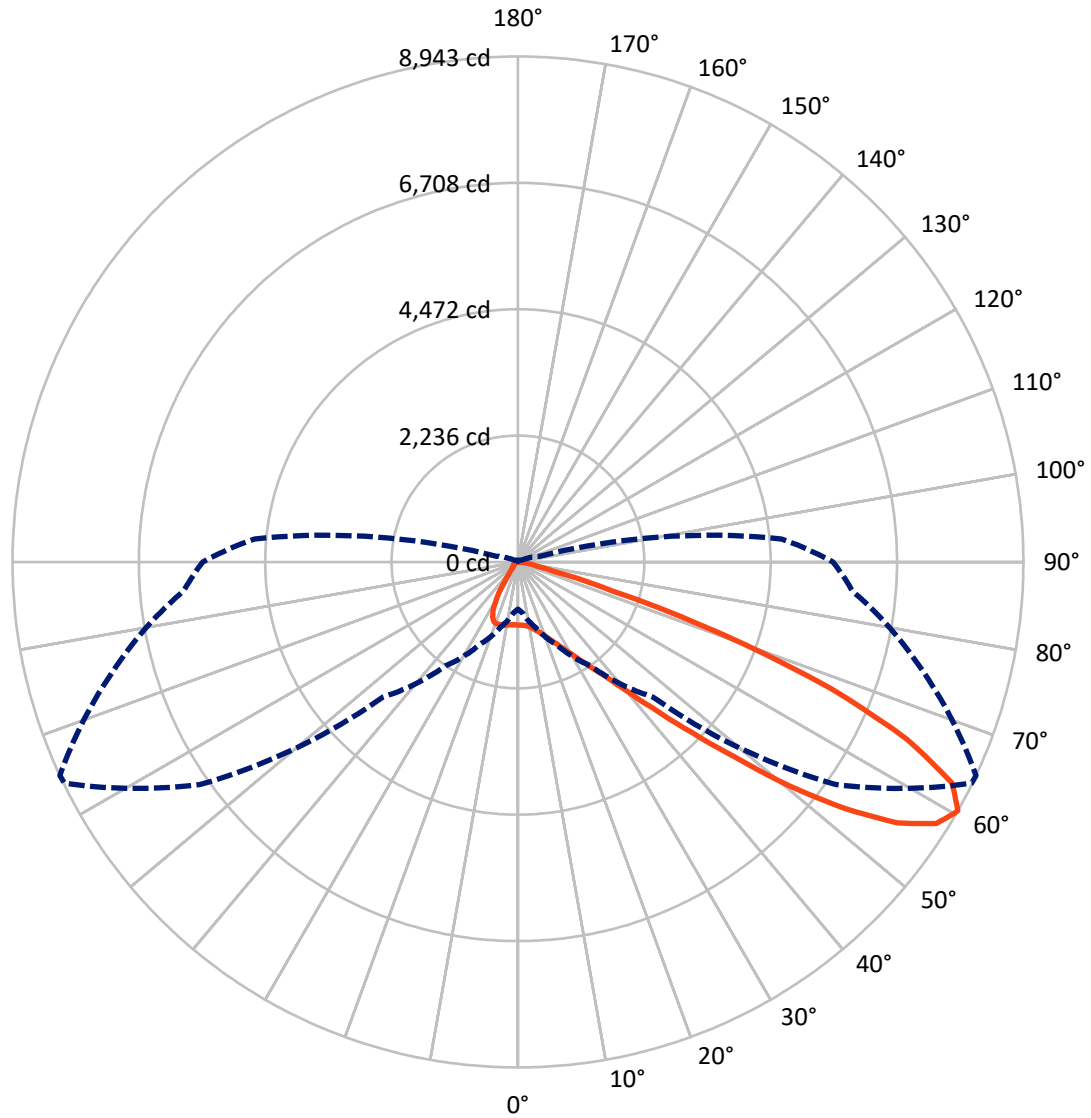
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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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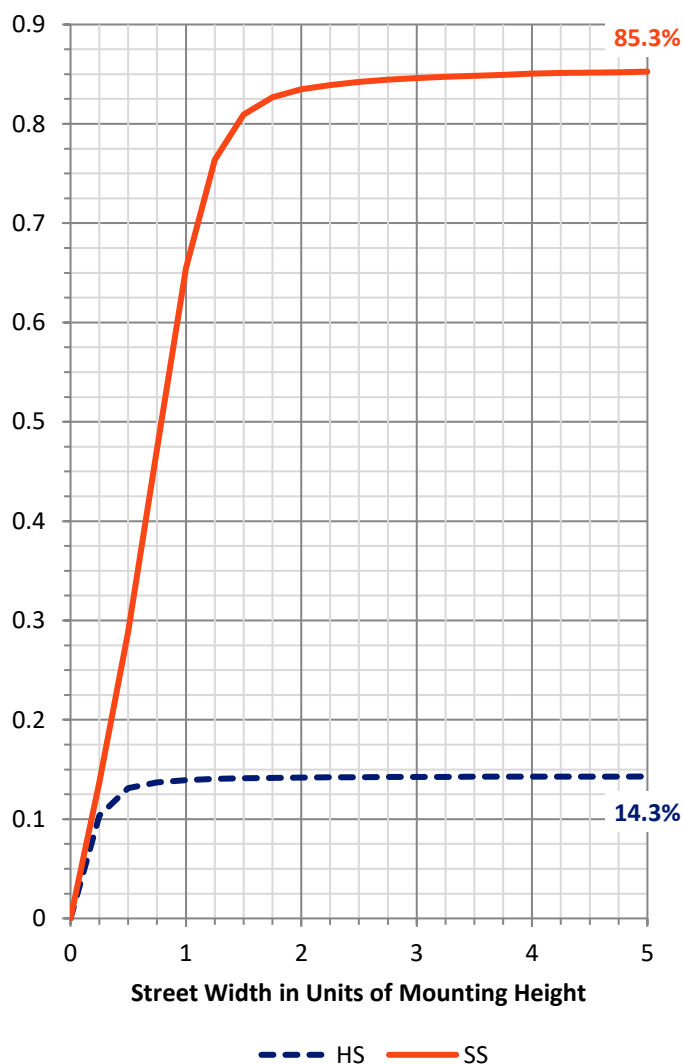
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1300.2	0.0	1300.2
	% Fixture	14.5	0.0	14.5
<b>Street Side</b>	Lumens	7680.8	0.0	7680.8
	% Fixture	85.5	0.0	85.5
<b>Total</b>	Lumens	8981.0	0.0	8981.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.7	1.2
10°-20°	300.0	3.3
20°-30°	509.6	5.7
30°-40°	1051.5	11.7
40°-50°	2114.7	23.5
50°-60°	2587.7	28.8
60°-70°	1830.7	20.4
70°-80°	441.2	4.9
80°-90°	39.9	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°	8981.0	100.0
0°-180°	8981.0	100.0

**Coefficient of Utilization**



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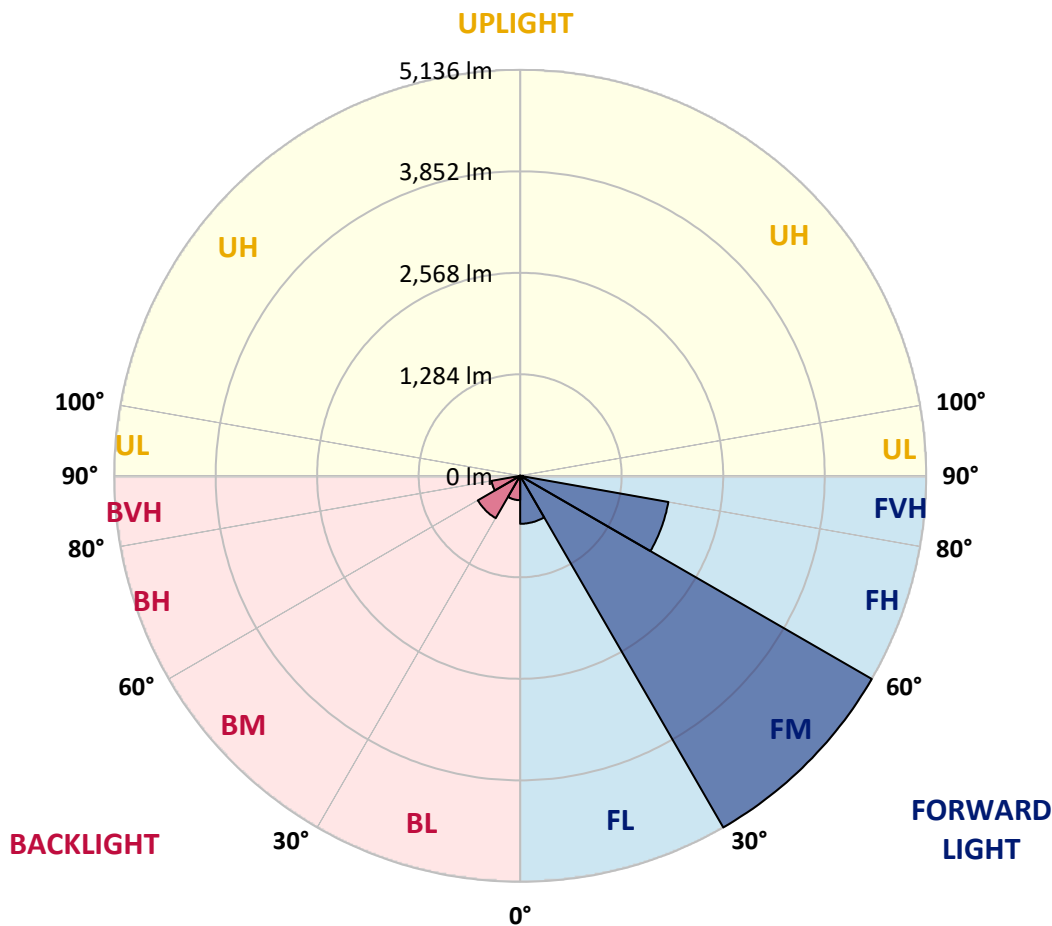
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	607.1	6.8			
FM (30°-60°)	5135.7	57.2			
FH (60°-80°)	1903.3	21.2			G2/5000
FVH (80°-90°)	34.7	0.4			G1/100
BL (0°-30°)	308.2	3.4	B1/500		
BM (30°-60°)	618.2	6.9	B1/1000		
BH (60°-80°)	368.6	4.1	B1/500		G1/500
BVH (80°-90°)	5.2	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°	64°	65°	75°	85°
0°	1118.8	1118.8	1118.8	1118.8	1118.8	1118.8	1118.8	1118.8	1118.8	1118.8	1118.8
2.5°	1122.3	1118.8	1118.8	1118.8	1122.3	1122.3	1125.9	1118.8	1118.8	1118.8	1118.8
5°	1115.3	1111.7	1111.7	1115.3	1118.8	1118.8	1125.9	1125.9	1125.9	1129.4	1129.4
7.5°	1129.4	1122.3	1122.3	1125.9	1129.4	1129.4	1136.5	1140.1	1140.1	1147.1	1150.7
10°	1147.1	1143.6	1143.6	1150.7	1157.8	1157.8	1168.4	1168.4	1168.4	1175.5	1179.0
12.5°	1171.9	1168.4	1168.4	1179.0	1189.6	1196.7	1203.8	1207.3	1210.9	1210.9	1210.9
15°	1207.3	1203.8	1203.8	1214.4	1228.6	1246.3	1256.9	1256.9	1264.0	1260.4	1246.3
17.5°	1256.9	1253.3	1256.9	1264.0	1281.7	1299.4	1320.6	1324.2	1320.6	1313.5	1292.3
20°	1338.3	1327.7	1334.8	1352.5	1352.5	1363.1	1391.4	1402.1	1405.6	1384.3	1345.4
22.5°	1423.3	1423.3	1430.4	1451.6	1437.5	1451.6	1476.4	1494.1	1501.2	1483.5	1419.8
25°	1582.6	1589.7	1579.1	1572.0	1536.6	1543.7	1575.5	1610.9	1610.9	1596.8	1504.7
27.5°	1933.1	1926.0	1851.7	1749.0	1657.0	1664.1	1695.9	1741.9	1745.5	1713.6	1589.7
30°	2435.9	2443.0	2297.8	2064.1	1862.3	1809.2	1844.6	1897.7	1904.8	1851.7	1699.5
32.5°	3221.9	3161.7	2892.6	2581.0	2202.2	2011.0	2025.2	2081.8	2103.1	2057.0	1872.9
35°	4238.0	4096.4	3692.8	3306.9	2758.1	2372.2	2262.4	2322.6	2333.2	2308.4	2088.9
37.5°	4843.4	4730.2	4468.2	4117.6	3473.3	2853.7	2574.0	2634.2	2623.5	2574.0	2304.9
40°	5218.7	5155.0	5013.4	4850.5	4439.8	3611.3	3087.3	3037.8	3041.3	2970.5	2655.4
42.5°	5431.2	5374.5	5321.4	5363.9	5243.5	4985.1	3830.9	3604.3	3583.0	3448.5	3062.6
45°	5441.8	5356.8	5420.6	5668.4	5859.6	6203.0	4801.0	4277.0	4287.6	4064.5	3568.9
47.5°	5034.6	4967.4	5151.5	5636.5	6270.3	6999.6	5930.4	5197.5	5147.9	4708.9	4082.2
50°	4230.9	4227.4	4471.7	5158.6	6270.3	7410.3	7141.3	6277.4	6224.3	5381.6	4549.6
52.5°	3349.3	3416.6	3583.0	4234.5	5693.2	7371.4	8033.5	7392.6	7243.9	5980.0	4939.0
55°	2605.8	2581.0	2782.9	3232.5	4514.2	6698.7	8323.8	8270.7	8146.8	6511.0	5282.5
57.5°	1600.3	1692.4	1965.0	2365.1	3285.6	5268.3	7906.0	8805.3	8731.0	7006.7	5640.1
60°	832.0	902.8	1196.7	1614.5	2244.7	3377.7	6861.6	8929.2	8943.4	7406.8	5944.6
62.5°	524.0	520.5	655.0	1133.0	1444.5	1897.7	5328.5	8490.2	8624.7	7714.8	6234.9
65°	393.0	396.5	449.6	750.6	980.7	991.3	3161.7	7343.1	7566.1	7796.3	6334.0
67.5°	364.7	368.2	393.0	492.1	736.4	662.1	1391.4	5661.3	5972.9	7045.7	5951.6
70°	325.7	329.3	368.2	407.2	555.9	485.1	626.7	3409.5	3841.5	5112.5	4762.0
72.5°	254.9	262.0	308.0	385.9	414.2	368.2	435.5	1508.3	1759.6	2811.2	2726.2
75°	187.6	191.2	233.7	297.4	364.7	262.0	336.4	598.3	655.0	1055.1	899.3
77.5°	131.0	131.0	162.9	223.1	304.5	184.1	240.8	322.2	329.3	393.0	258.5
80°	81.4	85.0	102.7	152.2	187.6	177.0	148.7	216.0	216.0	205.4	106.2
82.5°	46.0	49.6	70.8	102.7	127.5	120.4	95.6	123.9	127.5	131.0	60.2
85°	21.2	24.8	42.5	63.7	74.4	56.6	56.6	63.7	63.7	85.0	35.4
87.5°	3.5	3.5	21.2	28.3	24.8	28.3	28.3	35.4	35.4	42.5	17.7
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°	1118.8	1118.8	1118.8	1118.8	1118.8	1118.8	1118.8	1118.8	1118.8	1118.8	1118.8
2.5°	1115.3	1115.3	1115.3	1111.7	1111.7	1108.2	1101.1	1101.1	1101.1	1101.1	1104.6
5°	1129.4	1125.9	1122.3	1111.7	1104.6	1090.5	1076.3	1072.8	1062.2	1062.2	1065.7
7.5°	1147.1	1147.1	1136.5	1118.8	1101.1	1076.3	1051.5	1033.8	1016.1	1012.6	1009.1
10°	1179.0	1171.9	1161.3	1129.4	1101.1	1062.2	1023.2	977.2	941.8	924.1	917.0
12.5°	1203.8	1200.2	1179.0	1143.6	1097.6	1037.4	948.9	842.6	757.7	711.6	711.6
15°	1239.2	1232.1	1200.2	1150.7	1086.9	945.3	764.8	601.9	509.8	460.3	453.2
17.5°	1274.6	1260.4	1221.5	1154.2	1040.9	778.9	534.6	385.9	322.2	297.4	290.3
20°	1317.1	1292.3	1235.6	1157.8	927.6	566.5	347.0	258.5	233.7	223.1	226.6
22.5°	1373.7	1331.2	1249.8	1136.5	757.7	368.2	244.3	208.9	194.7	184.1	184.1
25°	1444.5	1384.3	1274.6	1076.3	548.8	247.8	194.7	173.5	159.3	152.2	148.7
27.5°	1508.3	1433.9	1299.4	970.1	350.5	194.7	162.9	145.2	131.0	127.5	123.9
30°	1593.2	1490.6	1324.2	800.2	230.1	159.3	138.1	120.4	109.8	106.2	106.2
32.5°	1738.4	1600.3	1370.2	609.0	173.5	138.1	116.8	102.7	95.6	92.1	92.1
35°	1908.3	1734.9	1409.1	424.9	148.7	116.8	99.1	88.5	85.0	81.4	81.4
37.5°	2085.4	1894.2	1416.2	269.1	131.0	102.7	88.5	81.4	74.4	74.4	74.4
40°	2404.0	2173.9	1384.3	180.6	113.3	92.1	77.9	74.4	67.3	67.3	67.3
42.5°	2775.8	2513.8	1302.9	145.2	102.7	81.4	74.4	67.3	60.2	60.2	56.6
45°	3257.3	2899.7	1164.8	127.5	92.1	74.4	67.3	60.2	56.6	53.1	53.1
47.5°	3710.5	3338.7	1033.8	113.3	85.0	70.8	60.2	53.1	49.6	49.6	49.6
50°	4142.4	3675.1	881.6	106.2	77.9	67.3	56.6	49.6	46.0	42.5	42.5
52.5°	4454.0	3940.6	740.0	95.6	70.8	60.2	53.1	46.0	38.9	35.4	35.4
55°	4801.0	4209.7	612.5	85.0	67.3	56.6	46.0	38.9	31.9	28.3	28.3
57.5°	5190.4	4471.7	495.7	77.9	63.7	49.6	38.9	31.9	24.8	21.2	21.2
60°	5576.3	4680.6	396.5	70.8	56.6	46.0	35.4	24.8	17.7	14.2	14.2
62.5°	5962.3	4822.2	304.5	63.7	53.1	38.9	28.3	17.7	10.6	7.1	7.1
65°	6121.6	4783.3	226.6	56.6	46.0	31.9	24.8	17.7	10.6	7.1	7.1
67.5°	5679.0	4301.7	159.3	56.6	42.5	31.9	21.2	14.2	7.1	3.5	3.5
70°	4432.7	3321.0	116.8	56.6	42.5	31.9	21.2	14.2	7.1	3.5	3.5
72.5°	2513.8	1848.2	88.5	49.6	38.9	28.3	21.2	14.2	7.1	3.5	3.5
75°	895.8	594.8	67.3	46.0	35.4	24.8	21.2	14.2	7.1	3.5	3.5
77.5°	216.0	152.2	53.1	38.9	31.9	24.8	17.7	14.2	10.6	3.5	3.5
80°	88.5	63.7	42.5	31.9	24.8	21.2	17.7	14.2	7.1	3.5	3.5
82.5°	38.9	31.9	17.7	17.7	14.2	14.2	14.2	14.2	7.1	3.5	3.5
85°	17.7	14.2	7.1	7.1	3.5	3.5	3.5	7.1	7.1	3.5	3.5
87.5°	10.6	7.1	7.1	7.1	3.5	3.5	3.5	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)