

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: P572817

Luminaire Tested: **ARCH-S-PA2-120-730-U-T2U-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572817  
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-PA2-120-730-U-T2U-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

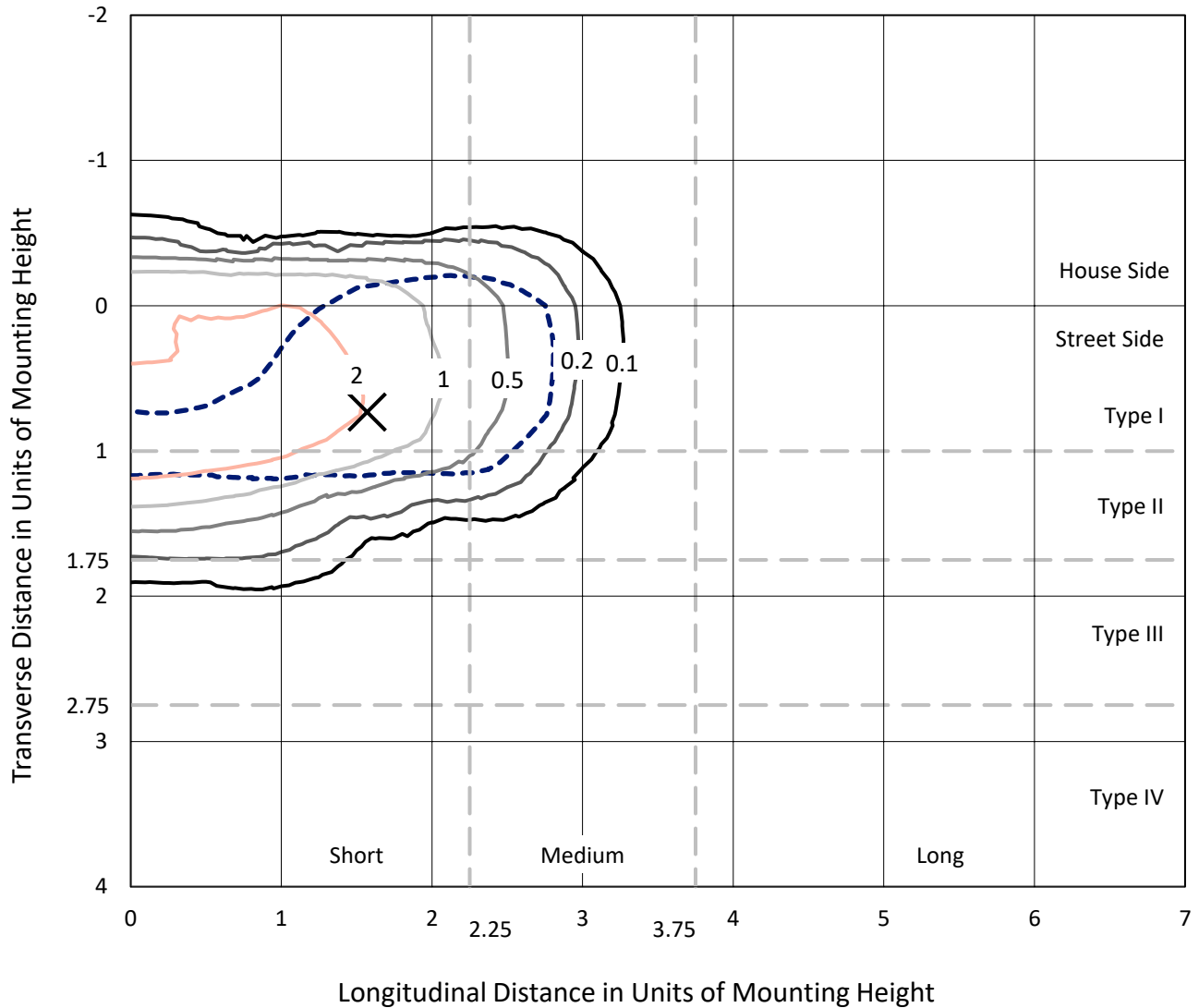
Lumens per Lamp: N/A  
Luminaire Lumens: 9780 lumens  
Efficiency: N/A  
Efficacy: 79.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 122.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

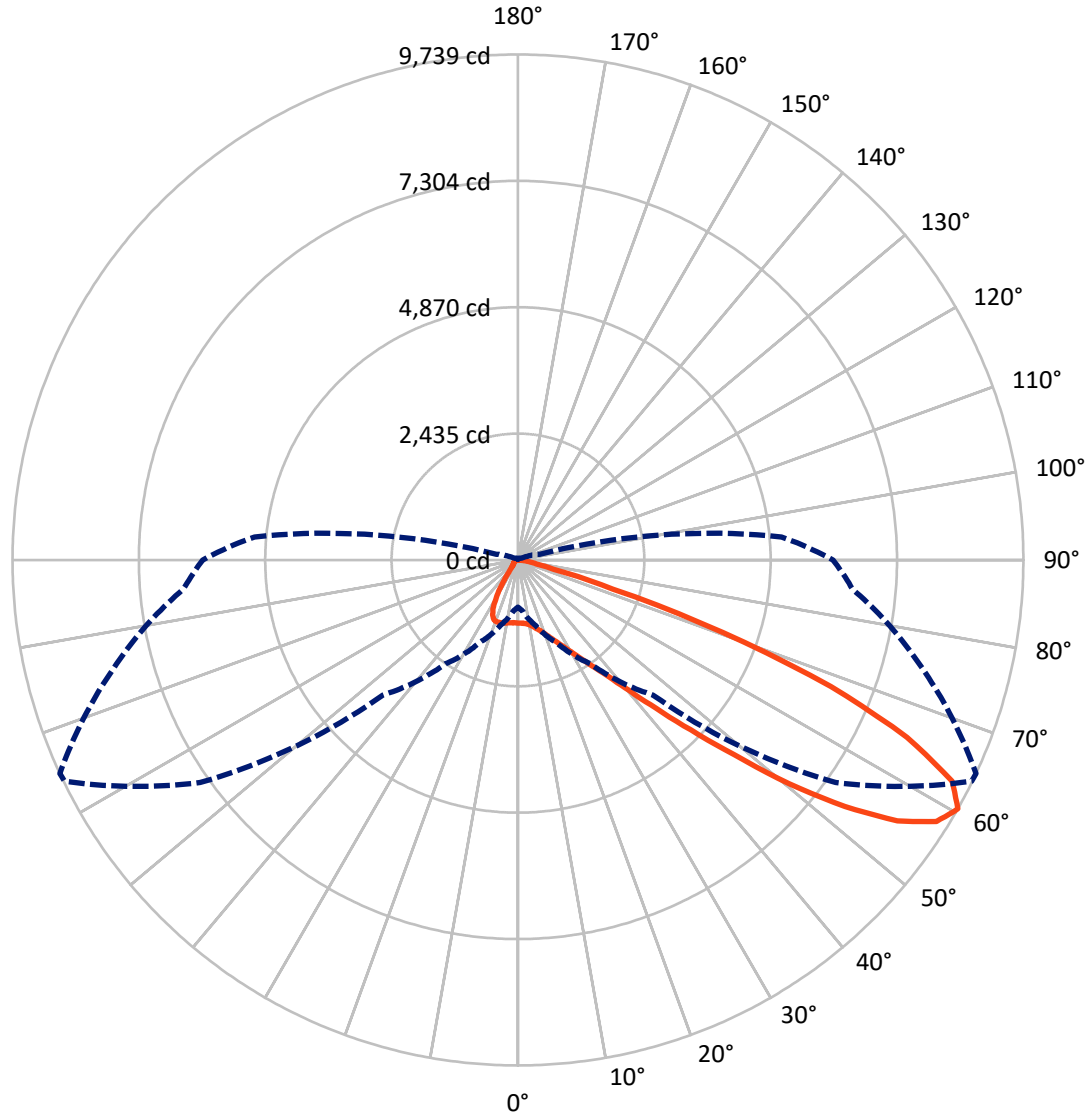
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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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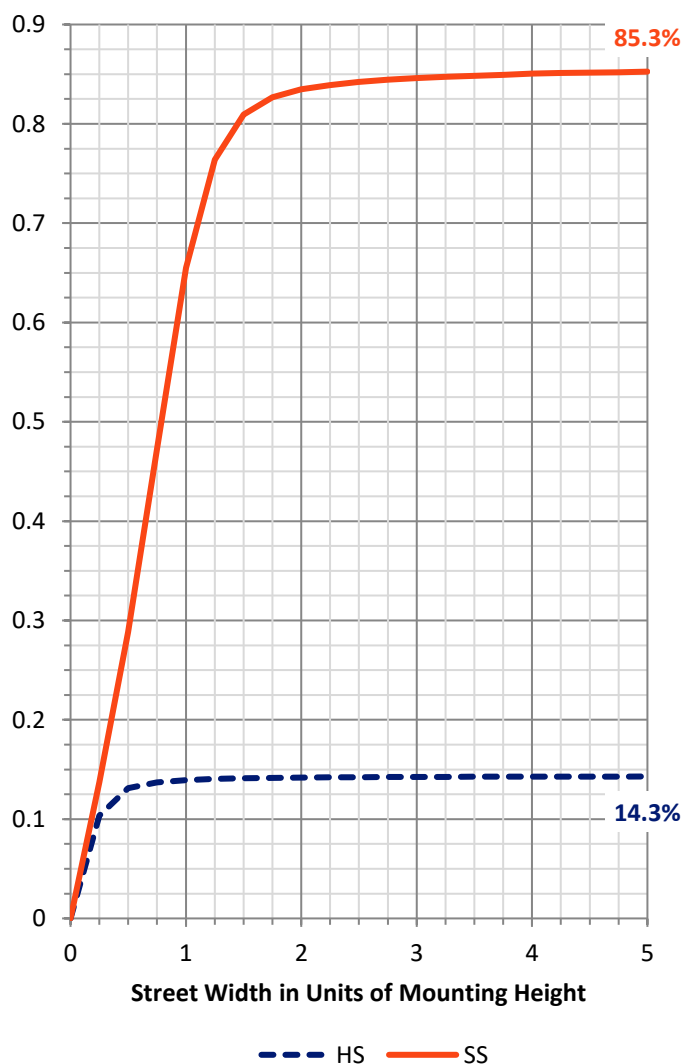
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1415.9	0.0	1415.9
	% Fixture	14.5	0.0	14.5
<b>Street Side</b>	Lumens	8364.1	0.0	8364.1
	% Fixture	85.5	0.0	85.5
<b>Total</b>	Lumens	9780.0	0.0	9780.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.1	1.2
10°-20°	326.7	3.3
20°-30°	554.9	5.7
30°-40°	1145.1	11.7
40°-50°	2302.8	23.5
50°-60°	2818.0	28.8
60°-70°	1993.6	20.4
70°-80°	480.4	4.9
80°-90°	43.4	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°	9780.0	100.0
0°-180°	9780.0	100.0

**Coefficient of Utilization**



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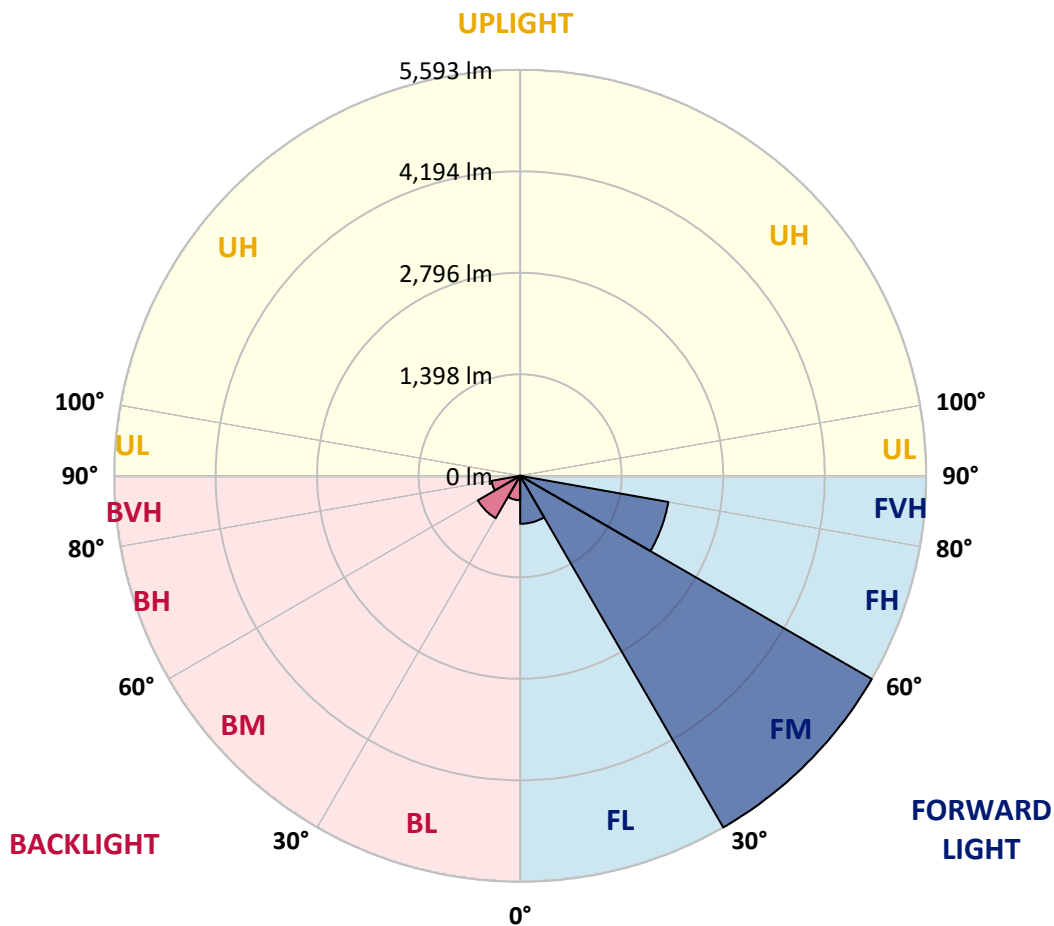
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	661.1	6.8			
FM (30°-60°)	5592.6	57.2			
FH (60°-80°)	2072.6	21.2			G2/5000
FVH (80°-90°)	37.8	0.4			G1/100
BL (0°-30°)	335.7	3.4	B1/500		
BM (30°-60°)	673.2	6.9	B1/1000		
BH (60°-80°)	401.4	4.1	B1/500		G1/500
BVH (80°-90°)	5.6	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°	1218.3	1218.3	1218.3	1218.3	1218.3	1218.3	1218.3	1218.3	1218.3	1218.3	1218.3
2.5°	1222.2	1218.3	1218.3	1218.3	1222.2	1222.2	1226.1	1218.3	1218.3	1218.3	1218.3
5°	1214.5	1210.6	1210.6	1214.5	1218.3	1218.3	1226.1	1226.1	1226.1	1229.9	1229.9
7.5°	1229.9	1222.2	1222.2	1226.1	1229.9	1229.9	1237.6	1241.5	1241.5	1249.2	1253.0
10°	1249.2	1245.3	1245.3	1253.0	1260.8	1260.8	1272.3	1272.3	1272.3	1280.0	1283.9
12.5°	1276.2	1272.3	1272.3	1283.9	1295.5	1303.2	1310.9	1314.7	1318.6	1318.6	1318.6
15°	1314.7	1310.9	1310.9	1322.4	1337.9	1357.1	1368.7	1368.7	1376.4	1372.6	1357.1
17.5°	1368.7	1364.9	1368.7	1376.4	1395.7	1415.0	1438.1	1442.0	1438.1	1430.4	1407.3
20°	1457.4	1445.8	1453.5	1472.8	1472.8	1484.4	1515.2	1526.8	1530.6	1507.5	1465.1
22.5°	1549.9	1549.9	1557.6	1580.8	1565.3	1580.8	1607.8	1627.0	1634.7	1615.5	1546.1
25°	1723.4	1731.1	1719.6	1711.8	1673.3	1681.0	1715.7	1754.3	1754.3	1738.8	1638.6
27.5°	2105.1	2097.4	2016.4	1904.6	1804.4	1812.1	1846.8	1896.9	1900.8	1866.1	1731.1
30°	2652.6	2660.3	2502.2	2247.8	2028.0	1970.2	2008.7	2066.6	2074.3	2016.4	1850.6
32.5°	3508.5	3443.0	3150.0	2810.7	2398.1	2189.9	2205.4	2267.0	2290.2	2240.1	2039.6
35°	4615.1	4460.8	4021.3	3601.1	3003.4	2583.2	2463.7	2529.2	2540.8	2513.8	2274.8
37.5°	5274.3	5151.0	4865.7	4484.0	3782.3	3107.5	2803.0	2868.5	2856.9	2803.0	2509.9
40°	5683.0	5613.6	5459.4	5282.1	4834.8	3932.6	3362.0	3308.0	3311.9	3234.8	2891.6
42.5°	5914.4	5852.7	5794.8	5841.1	5710.0	5428.6	4171.7	3924.9	3901.8	3755.3	3335.0
45°	5925.9	5833.4	5902.8	6172.7	6380.9	6754.9	5228.1	4657.5	4669.0	4426.1	3886.4
47.5°	5482.5	5409.3	5609.8	6138.0	6828.1	7622.4	6458.0	5659.9	5605.9	5127.8	4445.4
50°	4607.3	4603.5	4869.5	5617.5	6828.1	8069.6	7776.6	6835.8	6778.0	5860.4	4954.3
52.5°	3647.3	3720.6	3901.8	4611.2	6199.7	8027.2	8748.2	8050.3	7888.4	6512.0	5378.4
55°	2837.7	2810.7	3030.4	3520.1	4915.8	7294.6	9064.3	9006.5	8871.5	7090.3	5752.4
57.5°	1742.7	1842.9	2139.8	2575.5	3577.9	5737.0	8609.4	9588.7	9507.7	7630.1	6141.8
60°	906.0	983.2	1303.2	1758.1	2444.4	3678.2	7472.0	9723.6	9739.0	8065.7	6473.4
62.5°	570.6	566.8	713.3	1233.8	1573.1	2066.6	5802.6	9245.5	9392.0	8401.2	6789.6
65°	428.0	431.8	489.7	817.4	1068.0	1079.5	3443.0	7996.3	8239.2	8489.9	6897.5
67.5°	397.1	401.0	428.0	535.9	801.9	721.0	1515.2	6165.0	6504.3	7672.5	6481.1
70°	354.7	358.6	401.0	443.4	605.3	528.2	682.4	3712.9	4183.2	5567.4	5185.7
72.5°	277.6	285.3	335.4	420.3	451.1	401.0	474.2	1642.5	1916.2	3061.3	2968.7
75°	204.3	208.2	254.5	323.9	397.1	285.3	366.3	651.6	713.3	1148.9	979.3
77.5°	142.7	142.7	177.4	242.9	331.6	200.5	262.2	350.9	358.6	428.0	281.5
80°	88.7	92.5	111.8	165.8	204.3	192.8	161.9	235.2	235.2	223.6	115.7
82.5°	50.1	54.0	77.1	111.8	138.8	131.1	104.1	134.9	138.8	142.7	65.5
85°	23.1	27.0	46.3	69.4	81.0	61.7	61.7	69.4	69.4	92.5	38.6
87.5°	3.9	3.9	23.1	30.8	27.0	30.8	30.8	38.6	38.6	46.3	19.3
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°	1218.3	1218.3	1218.3	1218.3	1218.3	1218.3	1218.3	1218.3	1218.3	1218.3	1218.3
2.5°	1214.5	1214.5	1214.5	1210.6	1210.6	1206.8	1199.1	1199.1	1199.1	1199.1	1202.9
5°	1229.9	1226.1	1222.2	1210.6	1202.9	1187.5	1172.1	1168.2	1156.7	1156.7	1160.5
7.5°	1249.2	1249.2	1237.6	1218.3	1199.1	1172.1	1145.1	1125.8	1106.5	1102.7	1098.8
10°	1283.9	1276.2	1264.6	1229.9	1199.1	1156.7	1114.2	1064.1	1025.6	1006.3	998.6
12.5°	1310.9	1307.0	1283.9	1245.3	1195.2	1129.7	1033.3	917.6	825.1	775.0	775.0
15°	1349.4	1341.7	1307.0	1253.0	1183.6	1029.4	832.8	655.4	555.2	501.2	493.5
17.5°	1388.0	1372.6	1330.2	1256.9	1133.5	848.2	582.2	420.3	350.9	323.9	316.2
20°	1434.3	1407.3	1345.6	1260.8	1010.1	616.9	377.8	281.5	254.5	242.9	246.8
22.5°	1495.9	1449.7	1361.0	1237.6	825.1	401.0	266.0	227.5	212.1	200.5	200.5
25°	1573.1	1507.5	1388.0	1172.1	597.6	269.9	212.1	188.9	173.5	165.8	161.9
27.5°	1642.5	1561.5	1415.0	1056.4	381.7	212.1	177.4	158.1	142.7	138.8	134.9
30°	1735.0	1623.2	1442.0	871.3	250.6	173.5	150.4	131.1	119.5	115.7	115.7
32.5°	1893.1	1742.7	1492.1	663.1	188.9	150.4	127.2	111.8	104.1	100.2	100.2
35°	2078.1	1889.2	1534.5	462.7	161.9	127.2	108.0	96.4	92.5	88.7	88.7
37.5°	2270.9	2062.7	1542.2	293.0	142.7	111.8	96.4	88.7	81.0	81.0	81.0
40°	2617.9	2367.3	1507.5	196.6	123.4	100.2	84.8	81.0	73.3	73.3	73.3
42.5°	3022.7	2737.4	1418.8	158.1	111.8	88.7	81.0	73.3	65.5	65.5	61.7
45°	3547.1	3157.7	1268.5	138.8	100.2	81.0	73.3	65.5	61.7	57.8	57.8
47.5°	4040.6	3635.8	1125.8	123.4	92.5	77.1	65.5	57.8	54.0	54.0	54.0
50°	4511.0	4002.0	960.0	115.7	84.8	73.3	61.7	54.0	50.1	46.3	46.3
52.5°	4850.2	4291.2	805.8	104.1	77.1	65.5	57.8	50.1	42.4	38.6	38.6
55°	5228.1	4584.2	667.0	92.5	73.3	61.7	50.1	42.4	34.7	30.8	30.8
57.5°	5652.2	4869.5	539.8	84.8	69.4	54.0	42.4	34.7	27.0	23.1	23.1
60°	6072.4	5097.0	431.8	77.1	61.7	50.1	38.6	27.0	19.3	15.4	15.4
62.5°	6492.7	5251.2	331.6	69.4	57.8	42.4	30.8	19.3	11.6	7.7	7.7
65°	6666.2	5208.8	246.8	61.7	50.1	34.7	27.0	19.3	11.6	7.7	7.7
67.5°	6184.3	4684.5	173.5	61.7	46.3	34.7	23.1	15.4	7.7	3.9	3.9
70°	4827.1	3616.5	127.2	61.7	46.3	34.7	23.1	15.4	7.7	3.9	3.9
72.5°	2737.4	2012.6	96.4	54.0	42.4	30.8	23.1	15.4	7.7	3.9	3.9
75°	975.4	647.7	73.3	50.1	38.6	27.0	23.1	15.4	7.7	3.9	3.9
77.5°	235.2	165.8	57.8	42.4	34.7	27.0	19.3	15.4	11.6	3.9	3.9
80°	96.4	69.4	46.3	34.7	27.0	23.1	19.3	15.4	7.7	3.9	3.9
82.5°	42.4	34.7	19.3	19.3	15.4	15.4	15.4	15.4	7.7	3.9	3.9
85°	19.3	15.4	7.7	7.7	3.9	3.9	3.9	7.7	7.7	3.9	3.9
87.5°	11.6	7.7	7.7	7.7	3.9	3.9	3.9	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)