

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: P572736

Luminaire Tested: **ARCH-S-PA2-110-730-U-T2U-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572736  
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-PA2-110-730-U-T2U-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1105mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

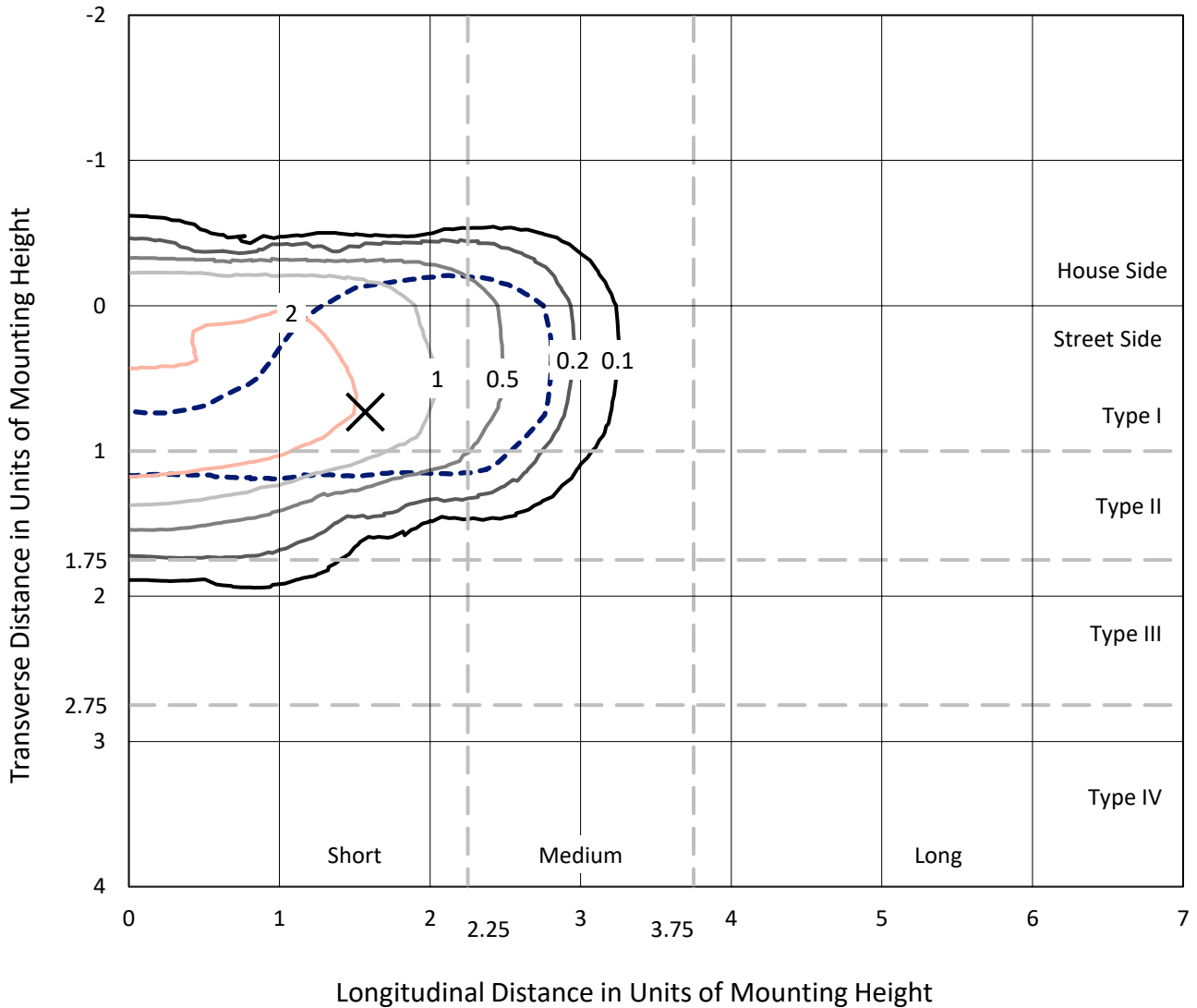
Lumens per Lamp: N/A  
Luminaire Lumens: 9408 lumens  
Efficiency: N/A  
Efficacy: 82.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 114.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

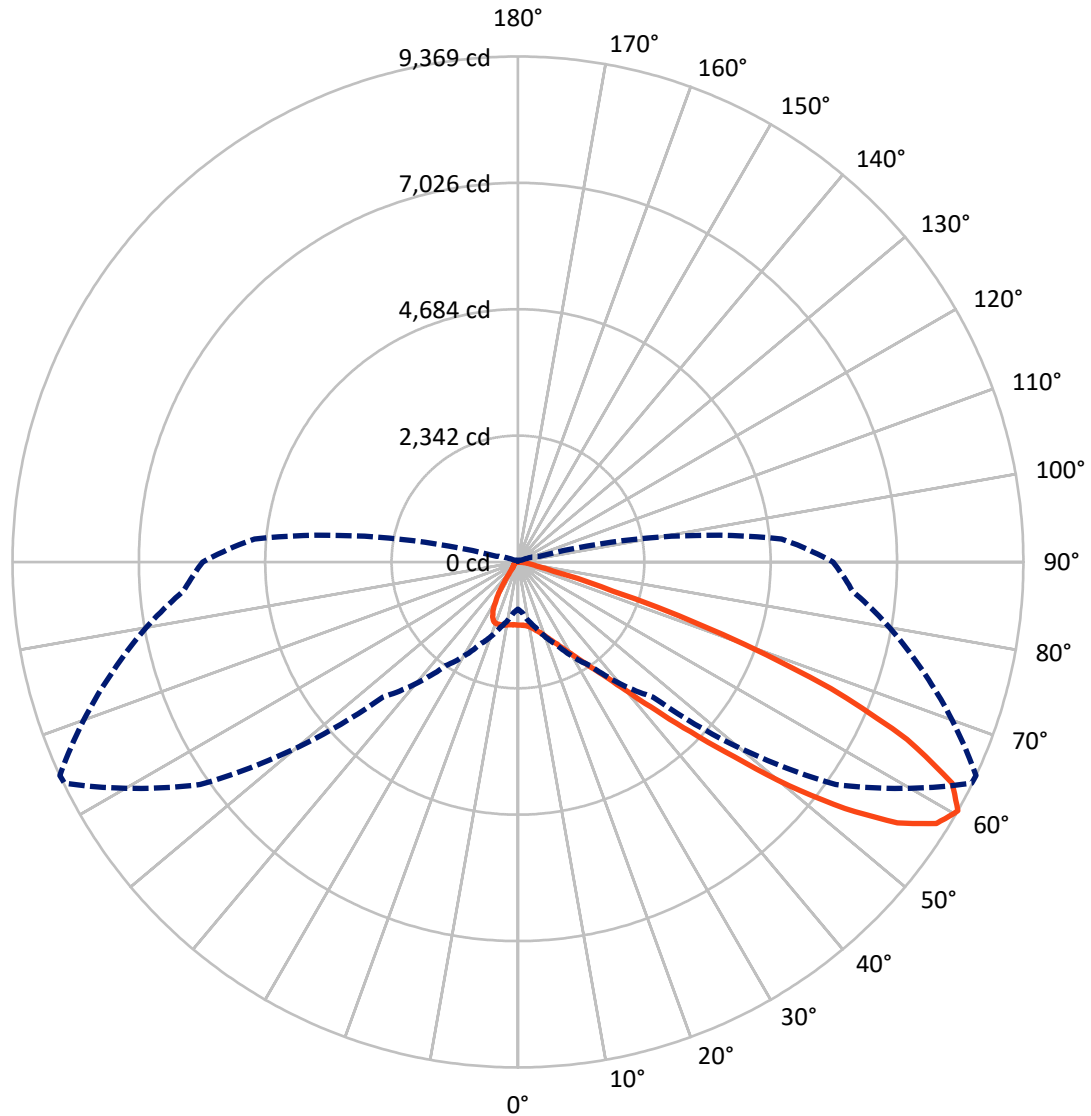
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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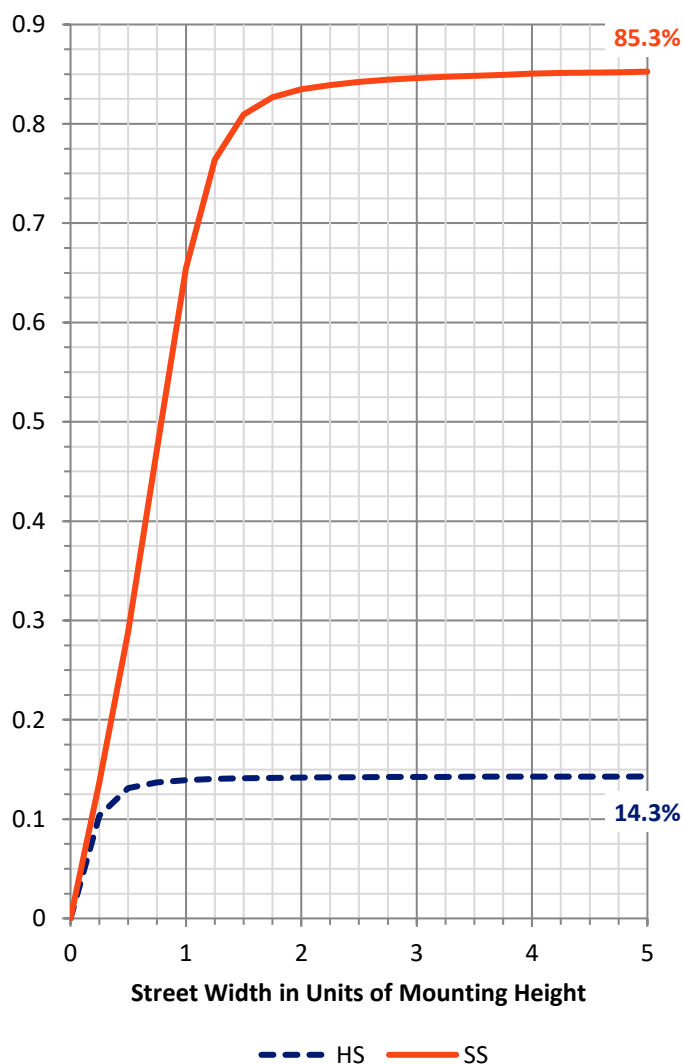
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1362.0	0.0	1362.0
	% Fixture	14.5	0.0	14.5
<b>Street Side</b>	Lumens	8046.0	0.0	8046.0
	% Fixture	85.5	0.0	85.5
<b>Total</b>	Lumens	9408.0	0.0	9408.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.8	1.2
10°-20°	314.3	3.3
20°-30°	533.8	5.7
30°-40°	1101.5	11.7
40°-50°	2215.3	23.5
50°-60°	2710.8	28.8
60°-70°	1917.7	20.4
70°-80°	462.1	4.9
80°-90°	41.7	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°	9408.0	100.0
0°-180°	9408.0	100.0

**Coefficient of Utilization**



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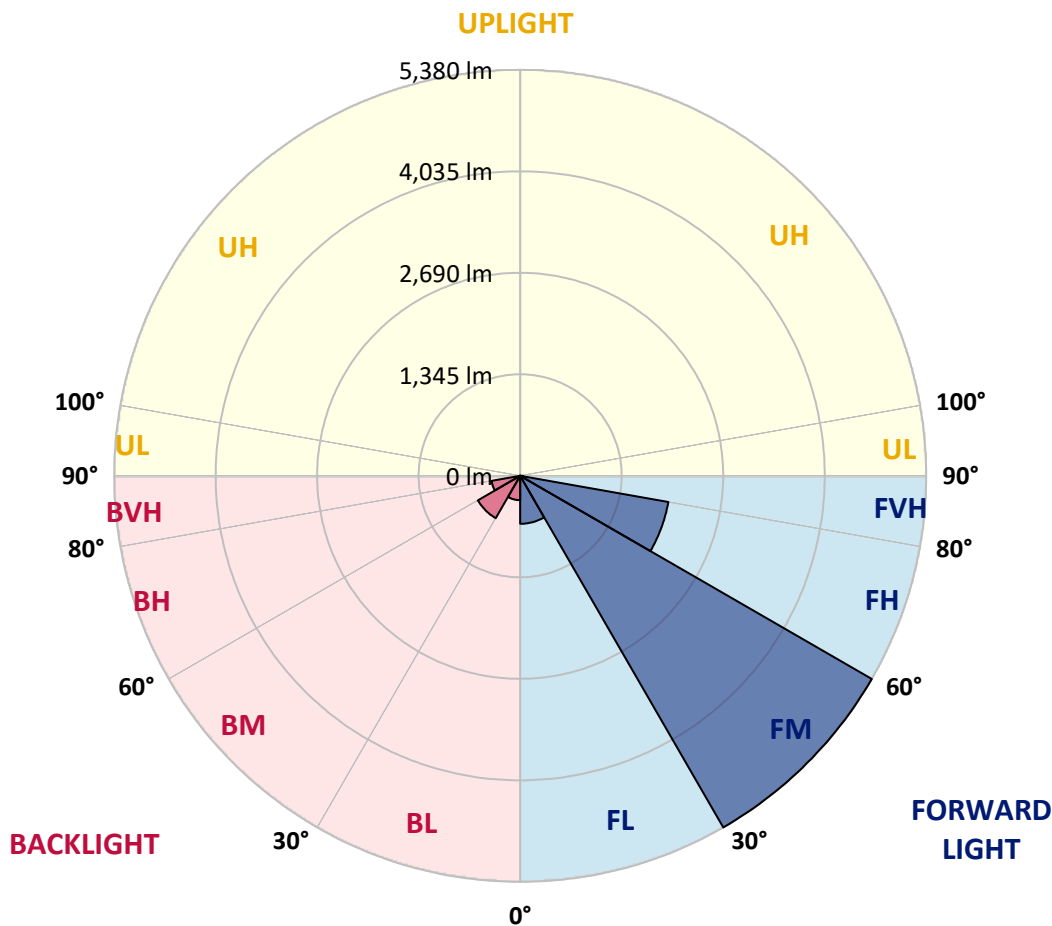
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	635.9	6.8			
FM (30°-60°)	5379.9	57.2			
FH (60°-80°)	1993.8	21.2			G2/5000
FVH (80°-90°)	36.3	0.4			G1/100
BL (0°-30°)	322.9	3.4	B1/500		
BM (30°-60°)	647.6	6.9	B1/1000		
BH (60°-80°)	386.1	4.1	B1/500		G1/500
BVH (80°-90°)	5.4	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°	1172.0	1172.0	1172.0	1172.0	1172.0	1172.0	1172.0	1172.0	1172.0	1172.0	1172.0
2.5°	1175.7	1172.0	1172.0	1172.0	1175.7	1175.7	1179.4	1172.0	1172.0	1172.0	1172.0
5°	1168.3	1164.6	1164.6	1168.3	1172.0	1172.0	1179.4	1179.4	1179.4	1183.1	1183.1
7.5°	1183.1	1175.7	1175.7	1179.4	1183.1	1183.1	1190.5	1194.3	1194.3	1201.7	1205.4
10°	1201.7	1198.0	1198.0	1205.4	1212.8	1212.8	1223.9	1223.9	1223.9	1231.3	1235.1
12.5°	1227.6	1223.9	1223.9	1235.1	1246.2	1253.6	1261.0	1264.7	1268.4	1268.4	1268.4
15°	1264.7	1261.0	1261.0	1272.1	1287.0	1305.5	1316.6	1316.6	1324.1	1320.4	1305.5
17.5°	1316.6	1312.9	1316.6	1324.1	1342.6	1361.2	1383.4	1387.1	1383.4	1376.0	1353.7
20°	1402.0	1390.8	1398.2	1416.8	1416.8	1427.9	1457.6	1468.7	1472.4	1450.2	1409.4
22.5°	1491.0	1491.0	1498.4	1520.6	1505.8	1520.6	1546.6	1565.1	1572.6	1554.0	1487.3
25°	1657.9	1665.3	1654.2	1646.7	1609.6	1617.1	1650.4	1687.5	1687.5	1672.7	1576.3
27.5°	2025.0	2017.6	1939.7	1832.2	1735.7	1743.2	1776.5	1824.8	1828.5	1795.1	1665.3
30°	2551.7	2559.1	2407.1	2162.3	1950.9	1895.2	1932.3	1988.0	1995.4	1939.7	1780.3
32.5°	3375.1	3312.0	3030.1	2703.8	2306.9	2106.6	2121.5	2180.8	2203.1	2154.9	1962.0
35°	4439.5	4291.2	3868.3	3464.1	2889.2	2484.9	2370.0	2433.0	2444.1	2418.2	2188.2
37.5°	5073.7	4955.0	4680.6	4313.4	3638.4	2989.3	2696.3	2759.4	2748.3	2696.3	2414.5
40°	5466.9	5400.1	5251.8	5081.1	4650.9	3783.0	3234.1	3182.2	3185.9	3111.7	2781.6
42.5°	5689.4	5630.1	5574.4	5618.9	5492.8	5222.1	4013.0	3775.6	3753.4	3612.4	3208.2
45°	5700.5	5611.5	5678.3	5937.9	6138.2	6497.9	5029.2	4480.3	4491.4	4257.8	3738.5
47.5°	5274.0	5203.5	5396.4	5904.5	6568.4	7332.4	6212.4	5444.6	5392.7	4932.8	4276.3
50°	4432.1	4428.4	4684.3	5403.8	6568.4	7762.7	7480.8	6575.8	6520.2	5637.5	4765.9
52.5°	3508.6	3579.1	3753.4	4435.8	5963.9	7721.9	8415.4	7744.1	7588.3	6264.3	5173.9
55°	2729.7	2703.8	2915.2	3386.2	4728.8	7017.2	8719.5	8663.9	8534.1	6820.6	5533.6
57.5°	1676.4	1772.8	2058.4	2477.5	3441.8	5518.8	8281.9	9224.0	9146.1	7339.8	5908.2
60°	871.6	945.8	1253.6	1691.2	2351.4	3538.3	7187.8	9353.8	9368.6	7758.9	6227.2
62.5°	548.9	545.2	686.1	1186.8	1513.2	1988.0	5581.8	8893.9	9034.8	8081.6	6531.3
65°	411.7	415.4	471.0	786.3	1027.4	1038.5	3312.0	7692.2	7925.8	8166.9	6635.2
67.5°	382.0	385.7	411.7	515.5	771.4	693.6	1457.6	5930.5	6256.9	7380.6	6234.6
70°	341.2	344.9	385.7	426.5	582.3	508.1	656.5	3571.6	4024.1	5355.6	4988.4
72.5°	267.0	274.5	322.7	404.3	433.9	385.7	456.2	1580.0	1843.3	2944.8	2855.8
75°	196.6	200.3	244.8	311.5	382.0	274.5	352.3	626.8	686.1	1105.2	942.1
77.5°	137.2	137.2	170.6	233.7	319.0	192.9	252.2	337.5	344.9	411.7	270.7
80°	85.3	89.0	107.6	159.5	196.6	185.4	155.8	226.2	226.2	215.1	111.3
82.5°	48.2	51.9	74.2	107.6	133.5	126.1	100.1	129.8	133.5	137.2	63.1
85°	22.3	26.0	44.5	66.8	77.9	59.3	59.3	66.8	66.8	89.0	37.1
87.5°	3.7	3.7	22.3	29.7	26.0	29.7	29.7	37.1	37.1	44.5	18.5
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°	1172.0	1172.0	1172.0	1172.0	1172.0	1172.0	1172.0	1172.0	1172.0	1172.0	1172.0
2.5°	1168.3	1168.3	1168.3	1164.6	1164.6	1160.9	1153.5	1153.5	1153.5	1153.5	1157.2
5°	1183.1	1179.4	1175.7	1164.6	1157.2	1142.3	1127.5	1123.8	1112.7	1112.7	1116.4
7.5°	1201.7	1201.7	1190.5	1172.0	1153.5	1127.5	1101.5	1083.0	1064.4	1060.7	1057.0
10°	1235.1	1227.6	1216.5	1183.1	1153.5	1112.7	1071.9	1023.6	986.6	968.0	960.6
12.5°	1261.0	1257.3	1235.1	1198.0	1149.7	1086.7	994.0	882.7	793.7	745.5	745.5
15°	1298.1	1290.7	1257.3	1205.4	1138.6	990.3	801.1	630.5	534.1	482.2	474.7
17.5°	1335.2	1320.4	1279.6	1209.1	1090.4	816.0	560.0	404.3	337.5	311.5	304.1
20°	1379.7	1353.7	1294.4	1212.8	971.7	593.4	363.5	270.7	244.8	233.7	237.4
22.5°	1439.0	1394.5	1309.2	1190.5	793.7	385.7	255.9	218.8	204.0	192.9	192.9
25°	1513.2	1450.2	1335.2	1127.5	574.9	259.6	204.0	181.7	166.9	159.5	155.8
27.5°	1580.0	1502.1	1361.2	1016.2	367.2	204.0	170.6	152.1	137.2	133.5	129.8
30°	1669.0	1561.4	1387.1	838.2	241.1	166.9	144.6	126.1	115.0	111.3	111.3
32.5°	1821.1	1676.4	1435.3	637.9	181.7	144.6	122.4	107.6	100.1	96.4	96.4
35°	1999.1	1817.3	1476.1	445.1	155.8	122.4	103.8	92.7	89.0	85.3	85.3
37.5°	2184.5	1984.2	1483.5	281.9	137.2	107.6	92.7	85.3	77.9	77.9	77.9
40°	2518.3	2277.2	1450.2	189.2	118.7	96.4	81.6	77.9	70.5	70.5	70.5
42.5°	2907.8	2633.3	1364.9	152.1	107.6	85.3	77.9	70.5	63.1	63.1	59.3
45°	3412.2	3037.6	1220.2	133.5	96.4	77.9	70.5	63.1	59.3	55.6	55.6
47.5°	3886.9	3497.5	1083.0	118.7	89.0	74.2	63.1	55.6	51.9	51.9	51.9
50°	4339.4	3849.8	923.5	111.3	81.6	70.5	59.3	51.9	48.2	44.5	44.5
52.5°	4665.8	4128.0	775.2	100.1	74.2	63.1	55.6	48.2	40.8	37.1	37.1
55°	5029.2	4409.8	641.6	89.0	70.5	59.3	48.2	40.8	33.4	29.7	29.7
57.5°	5437.2	4684.3	519.2	81.6	66.8	51.9	40.8	33.4	26.0	22.3	22.3
60°	5841.5	4903.1	415.4	74.2	59.3	48.2	37.1	26.0	18.5	14.8	14.8
62.5°	6245.7	5051.5	319.0	66.8	55.6	40.8	29.7	18.5	11.1	7.4	7.4
65°	6412.6	5010.7	237.4	59.3	48.2	33.4	26.0	18.5	11.1	7.4	7.4
67.5°	5949.0	4506.3	166.9	59.3	44.5	33.4	22.3	14.8	7.4	3.7	3.7
70°	4643.5	3478.9	122.4	59.3	44.5	33.4	22.3	14.8	7.4	3.7	3.7
72.5°	2633.3	1936.0	92.7	51.9	40.8	29.7	22.3	14.8	7.4	3.7	3.7
75°	938.3	623.1	70.5	48.2	37.1	26.0	22.3	14.8	7.4	3.7	3.7
77.5°	226.2	159.5	55.6	40.8	33.4	26.0	18.5	14.8	11.1	3.7	3.7
80°	92.7	66.8	44.5	33.4	26.0	22.3	18.5	14.8	7.4	3.7	3.7
82.5°	40.8	33.4	18.5	18.5	14.8	14.8	14.8	14.8	7.4	3.7	3.7
85°	18.5	14.8	7.4	7.4	3.7	3.7	3.7	7.4	7.4	3.7	3.7
87.5°	11.1	7.4	7.4	7.4	3.7	3.7	3.7	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)