

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: P572774

Luminaire Tested: **ARCH-S-PA2-110-760-U-T3-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572774  
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-PA2-110-760-U-T3-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 1105mA 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: 11190 lumens  
Efficiency: N/A  
Efficacy: 98.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

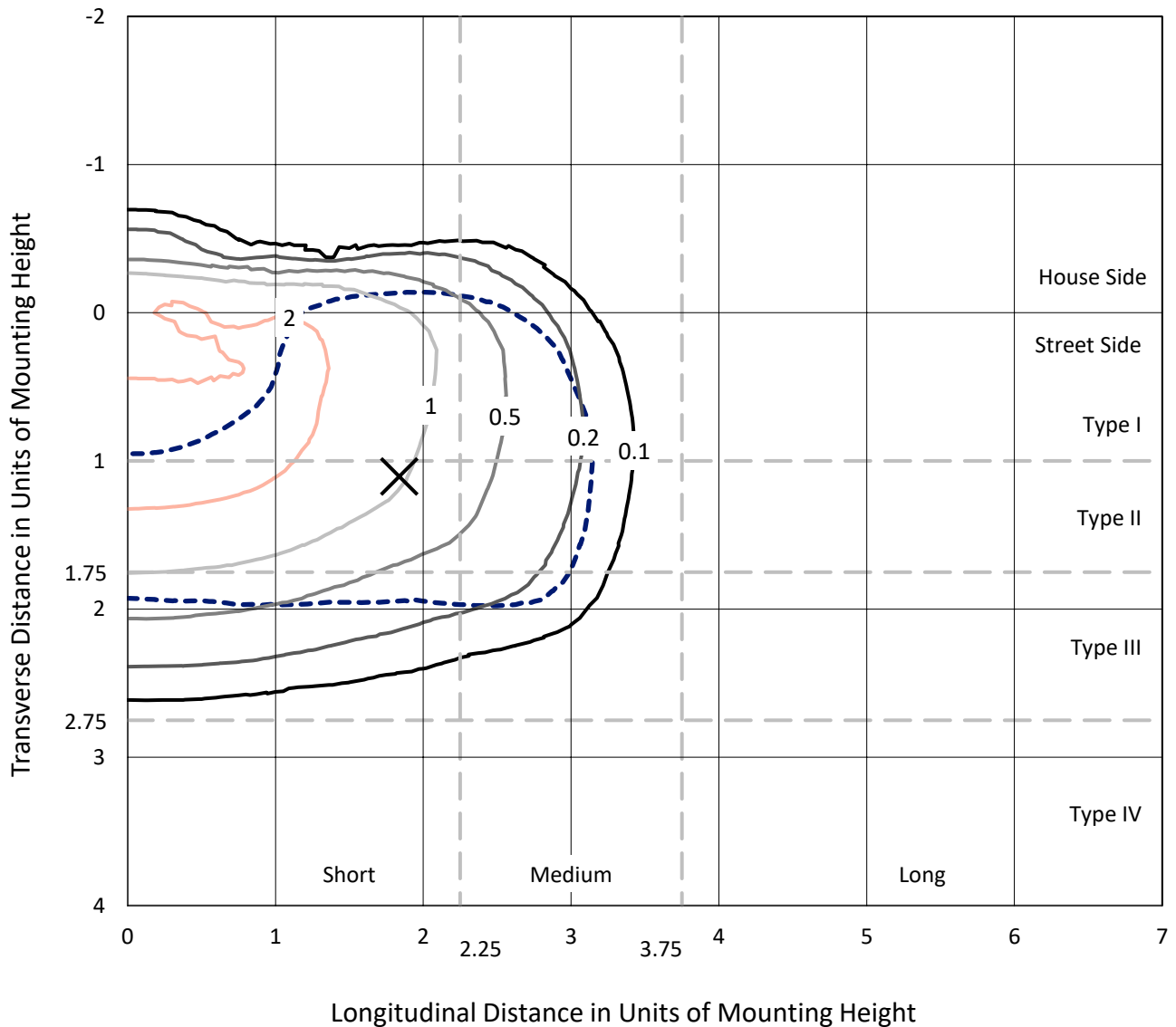
Input Watts (W): 114.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

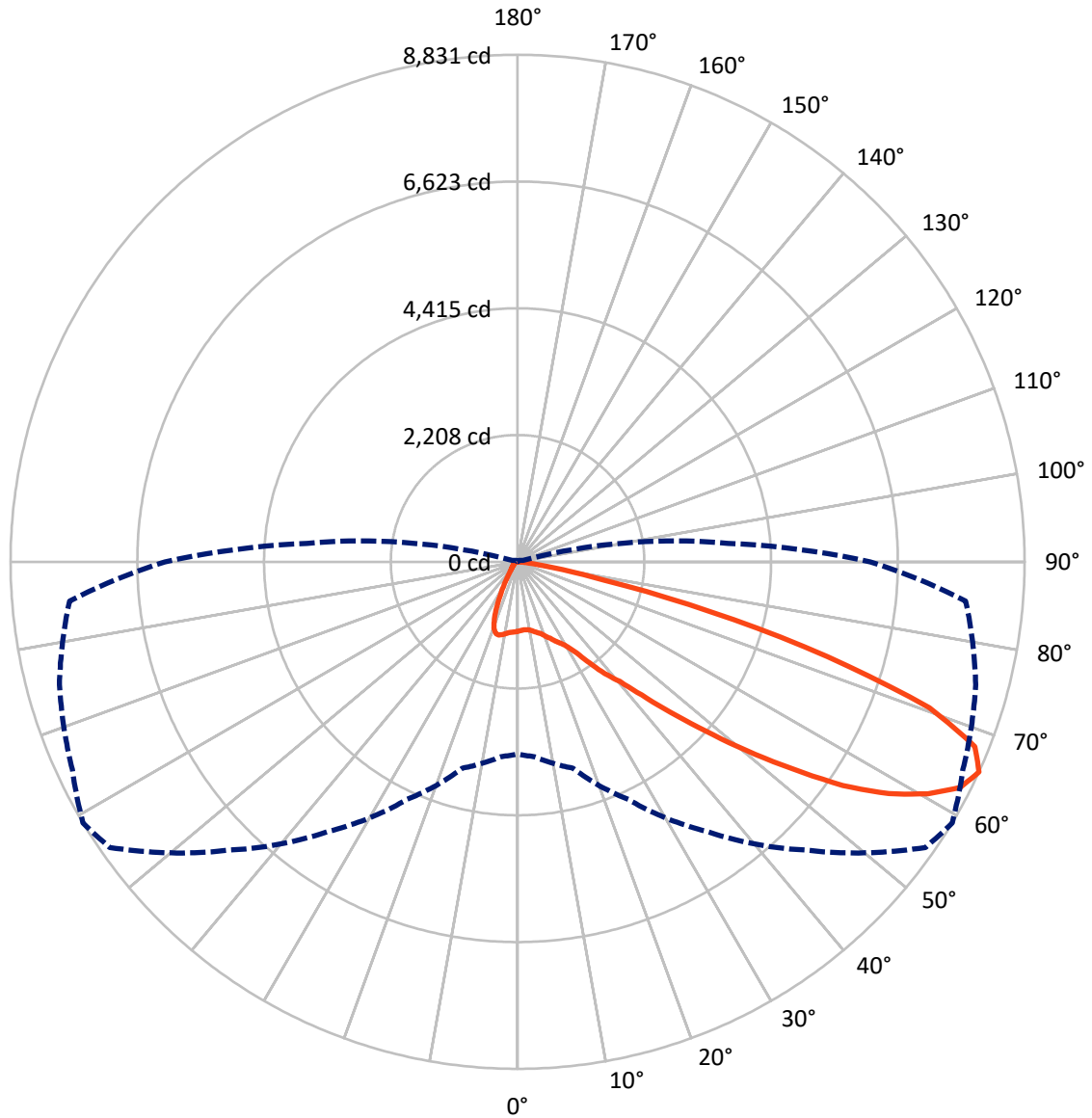
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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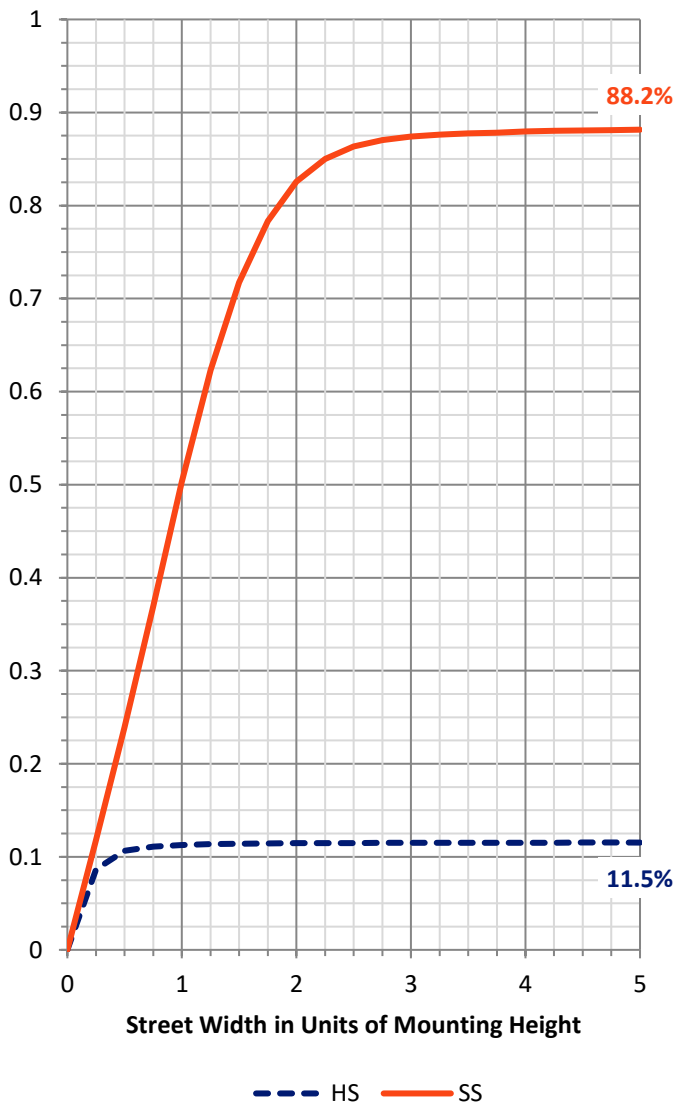
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1305.4	0.0	1305.4
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	9884.6	0.0	9884.6
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	11190.0	0.0	11190.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.2	1.0
10°-20°	324.6	2.9
20°-30°	551.3	4.9
30°-40°	976.6	8.7
40°-50°	1842.3	16.5
50°-60°	3117.1	27.9
60°-70°	3240.9	29.0
70°-80°	971.9	8.7
80°-90°	51.0	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°	11190.0	100.0
0°-180°	11190.0	100.0

**Coefficient of Utilization**



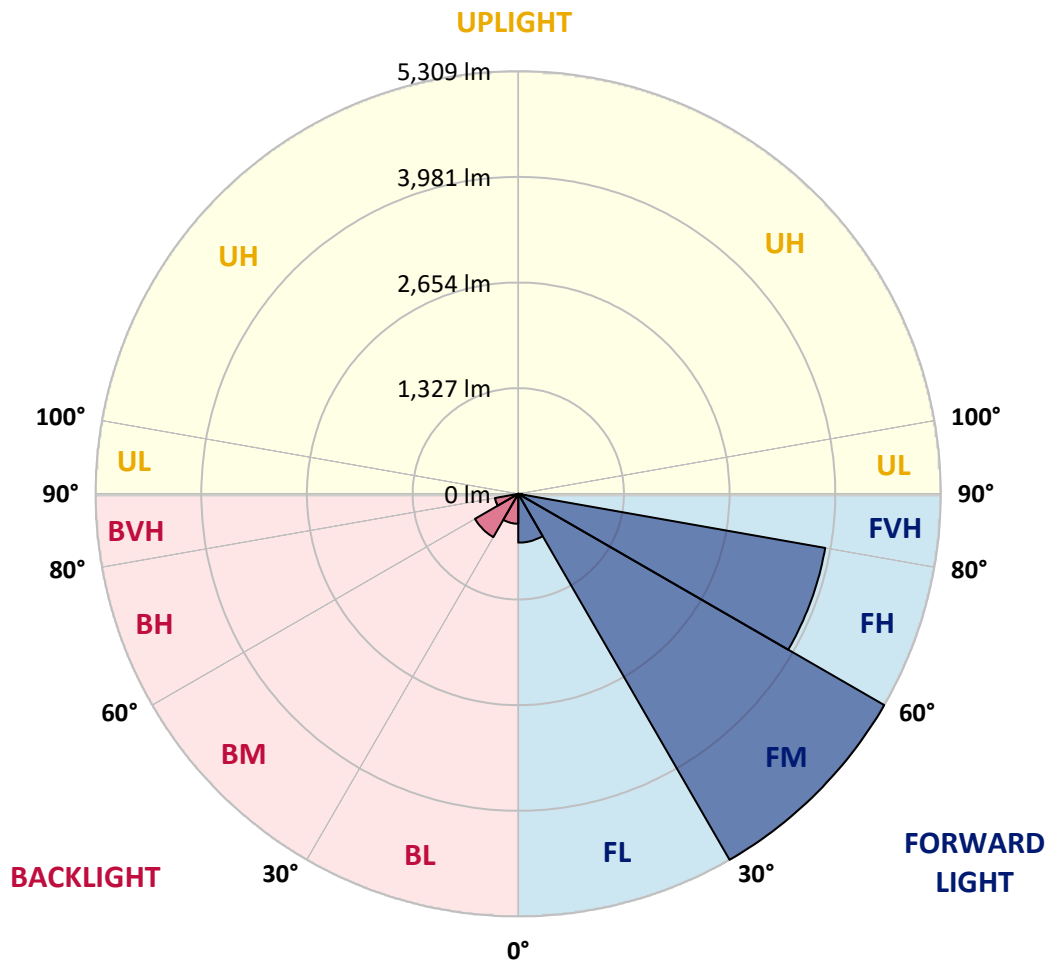
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	613.6	5.5			
FM (30°-60°)	5308.6	47.4			
FH (60°-80°)	3915.7	35.0			G2/5000
FVH (80°-90°)	46.7	0.4			G1/100
BL (0°-30°)	376.6	3.4	B1/500		
BM (30°-60°)	627.5	5.6	B1/1000		
BH (60°-80°)	297.0	2.7	B1/500		G1/500
BVH (80°-90°)	4.3	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°	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2
2.5°	1176.6	1172.5	1172.5	1180.7	1184.8	1188.8	1197.0	1197.0	1197.0	1205.1	1209.2
5°	1119.6	1119.6	1123.7	1131.8	1148.1	1160.3	1184.8	1188.8	1192.9	1213.3	1221.4
7.5°	1083.0	1083.0	1087.1	1103.3	1123.7	1152.2	1184.8	1192.9	1205.1	1233.6	1254.0
10°	1078.9	1074.8	1083.0	1099.3	1123.7	1160.3	1197.0	1209.2	1233.6	1270.3	1298.8
12.5°	1091.1	1087.1	1095.2	1111.5	1135.9	1172.5	1221.4	1241.8	1270.3	1319.1	1359.8
15°	1099.3	1095.2	1103.3	1123.7	1152.2	1197.0	1254.0	1278.4	1315.0	1384.3	1425.0
17.5°	1123.7	1119.6	1123.7	1140.0	1168.5	1217.3	1290.6	1315.0	1376.1	1453.5	1498.3
20°	1233.6	1229.5	1205.1	1197.0	1201.0	1245.8	1339.5	1380.2	1453.5	1551.2	1583.8
22.5°	1461.6	1445.3	1400.5	1327.3	1278.4	1294.7	1400.5	1445.3	1543.0	1653.0	1677.4
25°	1767.0	1754.8	1689.6	1563.4	1425.0	1384.3	1469.8	1530.8	1648.9	1771.0	1762.9
27.5°	2113.0	2088.6	2027.5	1852.5	1665.2	1530.8	1555.3	1608.2	1738.5	1868.7	1828.0
30°	2414.3	2406.2	2337.0	2190.4	1970.5	1771.0	1685.5	1714.0	1832.1	1970.5	1921.7
32.5°	2691.2	2666.7	2609.7	2471.3	2267.7	2064.2	1893.2	1893.2	1990.9	2153.7	2080.5
35°	2996.5	2980.2	2911.0	2772.6	2577.2	2337.0	2182.2	2166.0	2247.4	2430.6	2271.8
37.5°	3310.0	3269.3	3236.7	3094.2	2898.8	2691.2	2503.9	2467.2	2508.0	2642.3	2446.9
40°	3700.9	3700.9	3627.6	3497.3	3314.1	3094.2	2833.7	2740.0	2727.8	2902.9	2752.2
42.5°	4156.8	4144.6	4083.6	3961.4	3786.4	3582.8	3253.0	3167.5	3159.4	3371.1	3191.9
45°	4682.1	4673.9	4600.6	4498.8	4376.7	4152.8	3827.1	3741.6	3692.7	3937.0	3725.3
47.5°	5162.5	5134.0	5109.5	5121.8	5052.5	4800.1	4494.8	4393.0	4388.9	4580.3	4307.5
50°	5492.3	5476.0	5561.5	5642.9	5773.2	5614.4	5252.0	5162.5	5093.3	5345.7	4914.1
52.5°	5708.0	5699.9	5870.9	6103.0	6371.7	6359.4	6037.8	5984.9	5927.9	5997.1	5455.6
55°	5793.5	5793.5	5997.1	6424.6	6896.9	7100.4	6949.8	6876.5	6677.0	6534.5	6050.0
57.5°	5691.7	5679.5	5944.2	6501.9	7222.6	7641.9	7707.1	7621.6	7308.1	7149.3	6709.6
60°	5260.2	5268.3	5581.8	6286.2	7198.1	7861.8	8281.1	8203.8	7890.3	7654.1	7263.3
62.5°	4454.1	4523.3	4853.0	5618.5	6677.0	7686.7	8610.9	8651.6	8313.7	8020.6	7755.9
65°	3346.6	3407.7	3721.2	4568.1	5728.4	7100.4	8672.0	8830.8	8558.0	8260.8	7833.3
67.5°	2035.7	2056.0	2438.7	3077.9	4217.9	5915.7	8244.5	8590.5	8395.1	7906.6	7067.9
70°	948.6	1001.6	1188.8	1681.5	2670.8	4356.3	7124.9	7613.4	7393.6	6786.9	5374.2
72.5°	370.5	386.8	504.8	777.6	1416.8	2740.0	5317.2	5642.9	5492.3	4820.5	3204.2
75°	183.2	195.4	244.3	370.5	647.3	1131.8	3248.9	3460.6	3212.3	2422.5	1355.8
77.5°	134.4	134.4	162.9	228.0	354.2	419.3	1368.0	1534.9	1449.4	936.4	370.5
80°	89.6	97.7	114.0	154.7	223.9	203.6	517.1	614.8	513.0	289.1	130.3
82.5°	52.9	57.0	85.5	109.9	150.6	118.1	175.1	195.4	211.7	142.5	61.1
85°	28.5	28.5	57.0	81.4	81.4	52.9	61.1	69.2	81.4	85.5	32.6
87.5°	8.1	8.1	36.6	48.9	32.6	28.5	32.6	32.6	36.6	44.8	16.3
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°	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2
2.5°	1213.3	1213.3	1217.3	1217.3	1221.4	1221.4	1221.4	1221.4	1225.5	1229.5	1229.5
5°	1225.5	1229.5	1229.5	1229.5	1229.5	1221.4	1217.3	1213.3	1213.3	1217.3	1217.3
7.5°	1258.0	1262.1	1258.0	1249.9	1237.7	1221.4	1205.1	1205.1	1201.0	1205.1	1201.0
10°	1306.9	1306.9	1302.8	1282.5	1262.1	1229.5	1197.0	1172.5	1156.3	1152.2	1144.0
12.5°	1368.0	1368.0	1355.8	1319.1	1282.5	1221.4	1135.9	1054.5	989.3	960.8	952.7
15°	1429.0	1429.0	1412.8	1359.8	1286.5	1140.0	960.8	789.8	692.1	651.4	627.0
17.5°	1502.3	1494.2	1465.7	1392.4	1241.8	977.1	688.1	513.0	435.6	399.0	399.0
20°	1579.7	1571.5	1518.6	1396.5	1127.8	700.3	447.8	354.2	333.9	325.7	325.7
22.5°	1665.2	1644.8	1563.4	1363.9	887.6	476.3	337.9	313.5	305.4	301.3	301.3
25°	1734.4	1701.8	1596.0	1274.3	635.1	333.9	297.2	289.1	272.8	268.7	260.6
27.5°	1787.3	1738.5	1608.2	1083.0	419.3	276.9	264.6	248.4	232.1	215.8	215.8
30°	1856.5	1795.5	1616.3	842.8	285.0	240.2	228.0	207.6	187.3	171.0	171.0
32.5°	1995.0	1905.4	1620.4	590.3	236.1	211.7	187.3	162.9	142.5	134.4	130.3
35°	2145.6	2023.5	1575.6	382.7	207.6	179.1	150.6	130.3	109.9	105.9	105.9
37.5°	2312.5	2198.5	1477.9	260.6	183.2	150.6	122.1	101.8	89.6	85.5	85.5
40°	2593.4	2459.1	1315.0	207.6	158.8	126.2	101.8	85.5	77.4	73.3	73.3
42.5°	2996.5	2764.4	1111.5	179.1	138.4	105.9	81.4	69.2	65.1	61.1	61.1
45°	3460.6	3106.4	875.3	162.9	122.1	89.6	69.2	61.1	57.0	52.9	52.9
47.5°	3994.0	3460.6	692.1	142.5	105.9	77.4	61.1	52.9	48.9	44.8	44.8
50°	4498.8	3737.5	521.1	126.2	93.6	65.1	52.9	48.9	44.8	40.7	40.7
52.5°	4914.1	3924.8	394.9	109.9	81.4	57.0	48.9	44.8	36.6	36.6	36.6
55°	5414.9	4071.3	301.3	97.7	73.3	52.9	44.8	36.6	32.6	28.5	28.5
57.5°	5850.5	4124.3	219.9	85.5	65.1	48.9	40.7	32.6	24.4	20.4	20.4
60°	6143.7	4079.5	158.8	73.3	57.0	40.7	32.6	24.4	16.3	12.2	12.2
62.5°	6351.3	3981.8	122.1	65.1	48.9	36.6	28.5	20.4	12.2	8.1	8.1
65°	6143.7	3680.5	97.7	57.0	40.7	32.6	20.4	16.3	8.1	4.1	4.1
67.5°	5313.1	3086.1	77.4	48.9	36.6	28.5	20.4	12.2	4.1	0.0	0.0
70°	3818.9	2202.6	65.1	44.8	32.6	24.4	16.3	8.1	4.1	0.0	0.0
72.5°	2129.3	1135.9	61.1	40.7	32.6	24.4	16.3	8.1	4.1	0.0	0.0
75°	863.1	390.8	57.0	40.7	32.6	20.4	16.3	8.1	4.1	0.0	0.0
77.5°	252.4	134.4	48.9	36.6	32.6	24.4	16.3	8.1	4.1	0.0	0.0
80°	89.6	61.1	36.6	32.6	24.4	20.4	16.3	12.2	4.1	0.0	0.0
82.5°	40.7	24.4	16.3	12.2	12.2	12.2	12.2	8.1	4.1	0.0	0.0
85°	16.3	12.2	8.1	4.1	4.1	4.1	4.1	4.1	4.1	0.0	0.0
87.5°	12.2	8.1	4.1	4.1	4.1	4.1	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)