

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: P573420

Luminaire Tested: **ARCH-S-PA2-70-760-U-T2U-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573420  
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-PA2-70-760-U-T2U-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 725mA 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: 7355 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

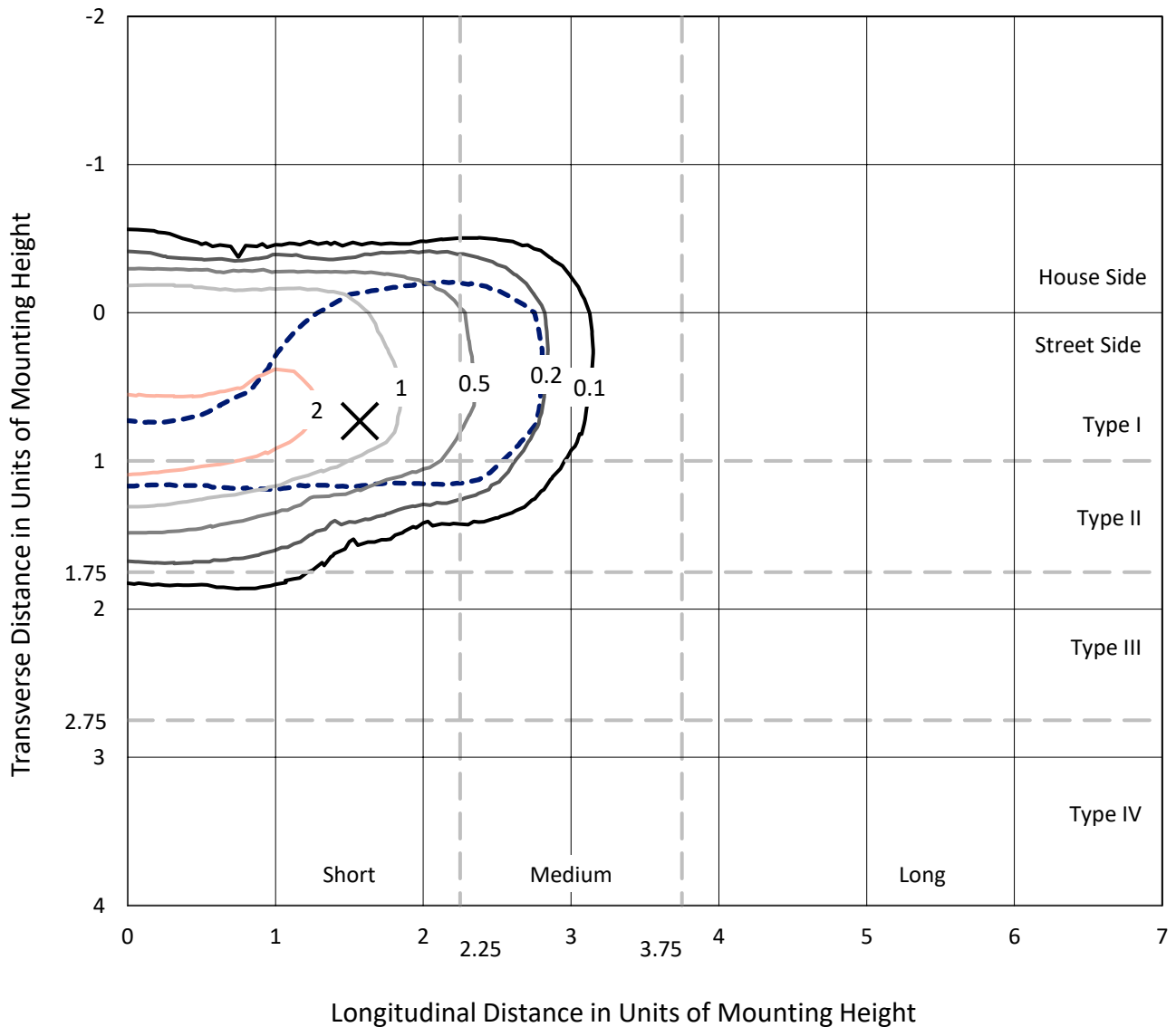
Input Watts (W): 73.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

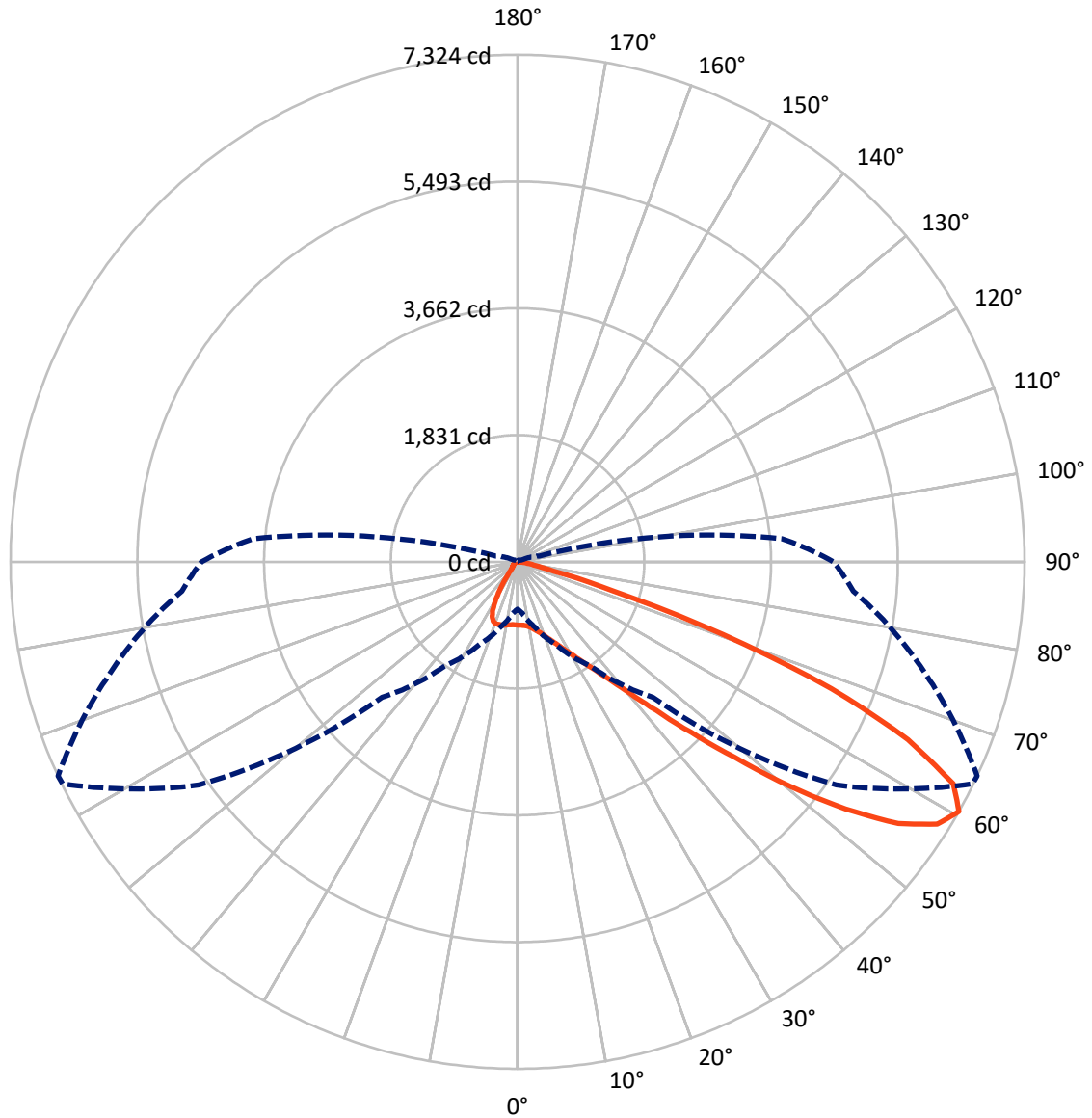
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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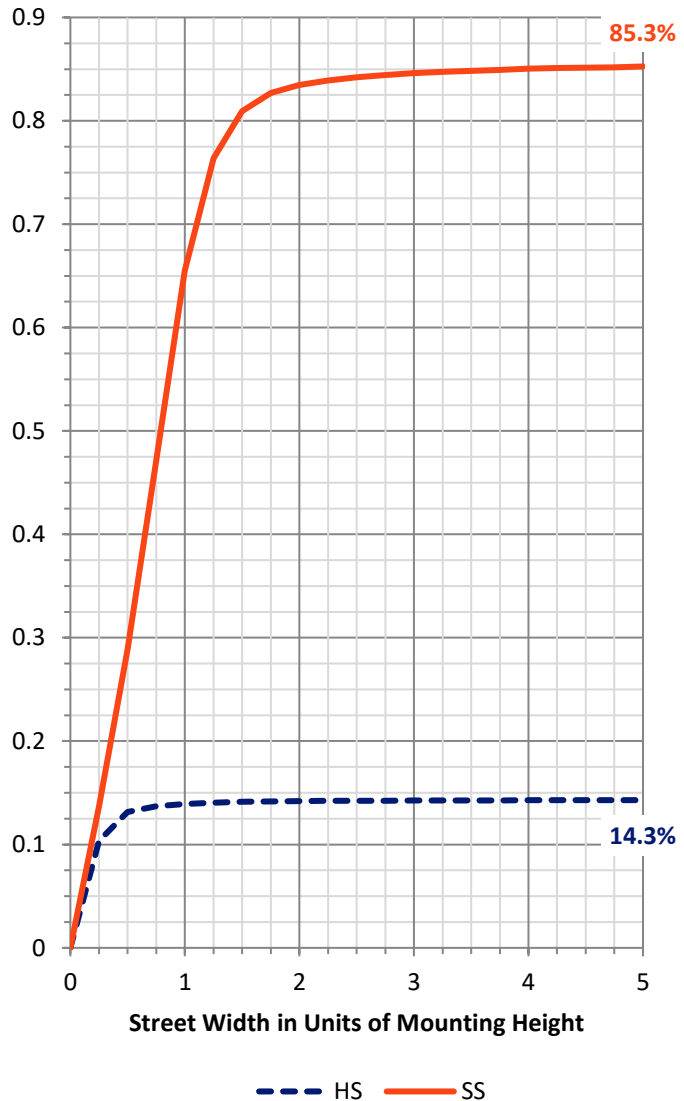
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1064.8	0.0	1064.8
	% Fixture	14.5	0.0	14.5
<b>Street Side</b>	Lumens	6290.2	0.0	6290.2
	% Fixture	85.5	0.0	85.5
<b>Total</b>	Lumens	7355.0	0.0	7355.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.6	1.2
10°-20°	245.7	3.3
20°-30°	417.3	5.7
30°-40°	861.1	11.7
40°-50°	1731.8	23.5
50°-60°	2119.2	28.8
60°-70°	1499.3	20.4
70°-80°	361.3	4.9
80°-90°	32.6	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°	7355.0	100.0
0°-180°	7355.0	100.0

**Coefficient of Utilization**

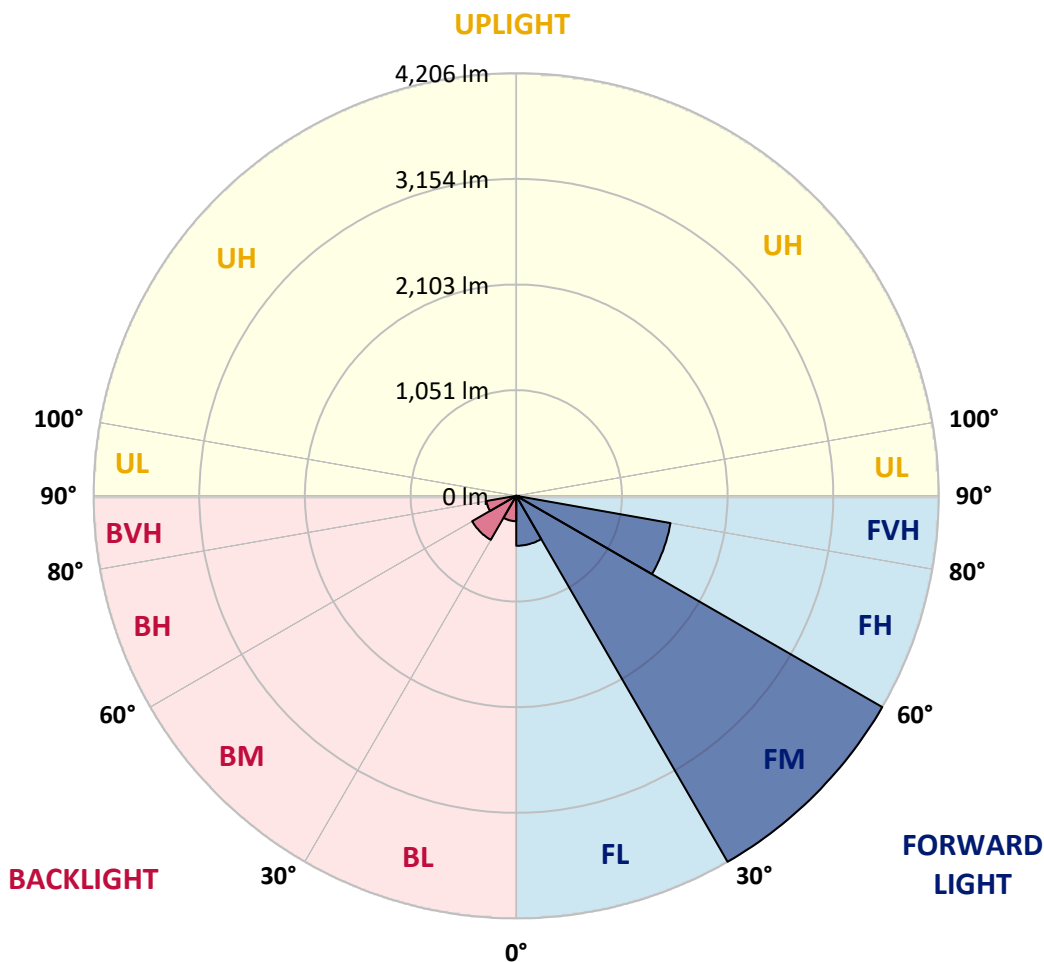


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	497.2	6.8			
FM (30°-60°)	4205.9	57.2			
FH (60°-80°)	1558.7	21.2			G1/1800
FVH (80°-90°)	28.4	0.4			G1/100
BL (0°-30°)	252.4	3.4	B1/500		
BM (30°-60°)	506.3	6.9	B1/1000		
BH (60°-80°)	301.8	4.1	B1/500		G1/500
BVH (80°-90°)	4.2	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-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	916.2	916.2	916.2	916.2	916.2	916.2	916.2	916.2	916.2	916.2	916.2
2.5°	919.1	916.2	916.2	916.2	919.1	919.1	922.0	916.2	916.2	916.2	916.2
5°	913.3	910.5	910.5	913.3	916.2	916.2	922.0	922.0	922.0	924.9	924.9
7.5°	924.9	919.1	919.1	922.0	924.9	924.9	930.7	933.6	933.6	939.4	942.3
10°	939.4	936.5	936.5	942.3	948.1	948.1	956.8	956.8	956.8	962.6	965.5
12.5°	959.7	956.8	956.8	965.5	974.2	980.0	985.8	988.7	991.6	991.6	991.6
15°	988.7	985.8	985.8	994.5	1006.1	1020.6	1029.3	1029.3	1035.1	1032.2	1020.6
17.5°	1029.3	1026.4	1029.3	1035.1	1049.6	1064.1	1081.5	1084.4	1081.5	1075.7	1058.3
20°	1096.0	1087.3	1093.1	1107.6	1107.6	1116.3	1139.5	1148.2	1151.1	1133.7	1101.8
22.5°	1165.6	1165.6	1171.4	1188.8	1177.2	1188.8	1209.1	1223.6	1229.4	1214.9	1162.7
25°	1296.1	1301.9	1293.2	1287.4	1258.4	1264.2	1290.3	1319.3	1319.3	1307.7	1232.3
27.5°	1583.1	1577.3	1516.5	1432.4	1357.0	1362.8	1388.9	1426.6	1429.5	1403.4	1301.9
30°	1994.9	2000.7	1881.8	1690.4	1525.1	1481.7	1510.7	1554.1	1559.9	1516.5	1391.8
32.5°	2638.6	2589.3	2368.9	2113.8	1803.5	1646.9	1658.5	1704.9	1722.3	1684.6	1533.8
35°	3470.7	3354.7	3024.2	2708.2	2258.7	1942.7	1852.8	1902.1	1910.8	1890.5	1710.7
37.5°	3966.5	3873.8	3659.2	3372.1	2844.4	2337.0	2108.0	2157.2	2148.5	2108.0	1887.6
40°	4273.9	4221.7	4105.7	3972.3	3636.0	2957.5	2528.4	2487.8	2490.7	2432.7	2174.6
42.5°	4447.9	4401.5	4358.0	4392.8	4294.2	4082.5	3137.3	2951.7	2934.3	2824.1	2508.1
45°	4456.6	4387.0	4439.2	4642.1	4798.7	5080.0	3931.8	3502.6	3511.3	3328.7	2922.7
47.5°	4123.1	4068.0	4218.8	4616.0	5135.1	5732.4	4856.7	4256.5	4215.9	3856.4	3343.1
50°	3464.9	3462.0	3662.1	4224.6	5135.1	6068.7	5848.3	5140.9	5097.4	4407.3	3725.9
52.5°	2742.9	2798.0	2934.3	3467.8	4662.4	6036.8	6579.0	6054.2	5932.4	4897.3	4044.8
55°	2134.0	2113.8	2279.0	2647.3	3696.9	5485.9	6816.8	6773.3	6671.8	5332.2	4326.1
57.5°	1310.6	1386.0	1609.2	1936.9	2690.8	4314.5	6474.6	7211.1	7150.2	5738.2	4618.9
60°	681.4	739.4	980.0	1322.2	1838.3	2766.1	5619.3	7312.6	7324.2	6065.8	4868.3
62.5°	429.1	426.2	536.4	927.8	1183.0	1554.1	4363.8	6953.1	7063.2	6318.1	5106.1
65°	321.8	324.7	368.2	614.7	803.2	811.9	2589.3	6013.6	6196.3	6384.7	5187.2
67.5°	298.7	301.6	321.8	403.0	603.1	542.2	1139.5	4636.3	4891.5	5770.1	4874.1
70°	266.8	269.7	301.6	333.4	455.2	397.2	513.2	2792.2	3146.0	4186.9	3899.9
72.5°	208.8	214.6	252.3	316.0	339.2	301.6	356.6	1235.2	1441.1	2302.2	2232.6
75°	153.7	156.6	191.4	243.6	298.7	214.6	275.5	490.0	536.4	864.1	736.5
77.5°	107.3	107.3	133.4	182.7	249.4	150.8	197.2	263.9	269.7	321.8	211.7
80°	66.7	69.6	84.1	124.7	153.7	145.0	121.8	176.9	176.9	168.2	87.0
82.5°	37.7	40.6	58.0	84.1	104.4	98.6	78.3	101.5	104.4	107.3	49.3
85°	17.4	20.3	34.8	52.2	60.9	46.4	46.4	52.2	52.2	69.6	29.0
87.5°	2.9	2.9	17.4	23.2	20.3	23.2	23.2	29.0	29.0	34.8	14.5
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°	916.2	916.2	916.2	916.2	916.2	916.2	916.2	916.2	916.2	916.2	916.2
2.5°	913.3	913.3	913.3	910.5	910.5	907.6	901.8	901.8	901.8	901.8	904.7
5°	924.9	922.0	919.1	910.5	904.7	893.1	881.5	878.6	869.9	869.9	872.8
7.5°	939.4	939.4	930.7	916.2	901.8	881.5	861.2	846.7	832.2	829.3	826.4
10°	965.5	959.7	951.0	924.9	901.8	869.9	838.0	800.3	771.3	756.8	751.0
12.5°	985.8	982.9	965.5	936.5	898.9	849.6	777.1	690.1	620.5	582.8	582.8
15°	1014.8	1009.0	982.9	942.3	890.2	774.2	626.3	492.9	417.5	376.9	371.1
17.5°	1043.8	1032.2	1000.3	945.2	852.5	637.9	437.8	316.0	263.9	243.6	237.8
20°	1078.6	1058.3	1011.9	948.1	759.7	463.9	284.2	211.7	191.4	182.7	185.6
22.5°	1125.0	1090.2	1023.5	930.7	620.5	301.6	200.1	171.1	159.5	150.8	150.8
25°	1183.0	1133.7	1043.8	881.5	449.4	203.0	159.5	142.1	130.5	124.7	121.8
27.5°	1235.2	1174.3	1064.1	794.5	287.1	159.5	133.4	118.9	107.3	104.4	101.5
30°	1304.8	1220.7	1084.4	655.3	188.5	130.5	113.1	98.6	89.9	87.0	87.0
32.5°	1423.7	1310.6	1122.1	498.7	142.1	113.1	95.7	84.1	78.3	75.4	75.4
35°	1562.8	1420.8	1154.0	347.9	121.8	95.7	81.2	72.5	69.6	66.7	66.7
37.5°	1707.8	1551.2	1159.8	220.4	107.3	84.1	72.5	66.7	60.9	60.9	60.9
40°	1968.8	1780.3	1133.7	147.9	92.8	75.4	63.8	60.9	55.1	55.1	55.1
42.5°	2273.2	2058.7	1067.0	118.9	84.1	66.7	60.9	55.1	49.3	49.3	46.4
45°	2667.6	2374.7	953.9	104.4	75.4	60.9	55.1	49.3	46.4	43.5	43.5
47.5°	3038.7	2734.3	846.7	92.8	69.6	58.0	49.3	43.5	40.6	40.6	40.6
50°	3392.4	3009.7	722.0	87.0	63.8	55.1	46.4	40.6	37.7	34.8	34.8
52.5°	3647.6	3227.2	606.0	78.3	58.0	49.3	43.5	37.7	31.9	29.0	29.0
55°	3931.8	3447.5	501.6	69.6	55.1	46.4	37.7	31.9	26.1	23.2	23.2
57.5°	4250.7	3662.1	405.9	63.8	52.2	40.6	31.9	26.1	20.3	17.4	17.4
60°	4566.7	3833.2	324.7	58.0	46.4	37.7	29.0	20.3	14.5	11.6	11.6
62.5°	4882.8	3949.2	249.4	52.2	43.5	31.9	23.2	14.5	8.7	5.8	5.8
65°	5013.3	3917.3	185.6	46.4	37.7	26.1	20.3	14.5	8.7	5.8	5.8
67.5°	4650.8	3522.9	130.5	46.4	34.8	26.1	17.4	11.6	5.8	2.9	2.9
70°	3630.2	2719.8	95.7	46.4	34.8	26.1	17.4	11.6	5.8	2.9	2.9
72.5°	2058.7	1513.6	72.5	40.6	31.9	23.2	17.4	11.6	5.8	2.9	2.9
75°	733.6	487.1	55.1	37.7	29.0	20.3	17.4	11.6	5.8	2.9	2.9
77.5°	176.9	124.7	43.5	31.9	26.1	20.3	14.5	11.6	8.7	2.9	2.9
80°	72.5	52.2	34.8	26.1	20.3	17.4	14.5	11.6	5.8	2.9	2.9
82.5°	31.9	26.1	14.5	14.5	11.6	11.6	11.6	11.6	5.8	2.9	2.9
85°	14.5	11.6	5.8	5.8	2.9	2.9	2.9	5.8	5.8	2.9	2.9
87.5°	8.7	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)