

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: P573542

Luminaire Tested: **ARCH-S-PA2-90-727-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573542
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-19)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-90-727-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 910mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10699 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

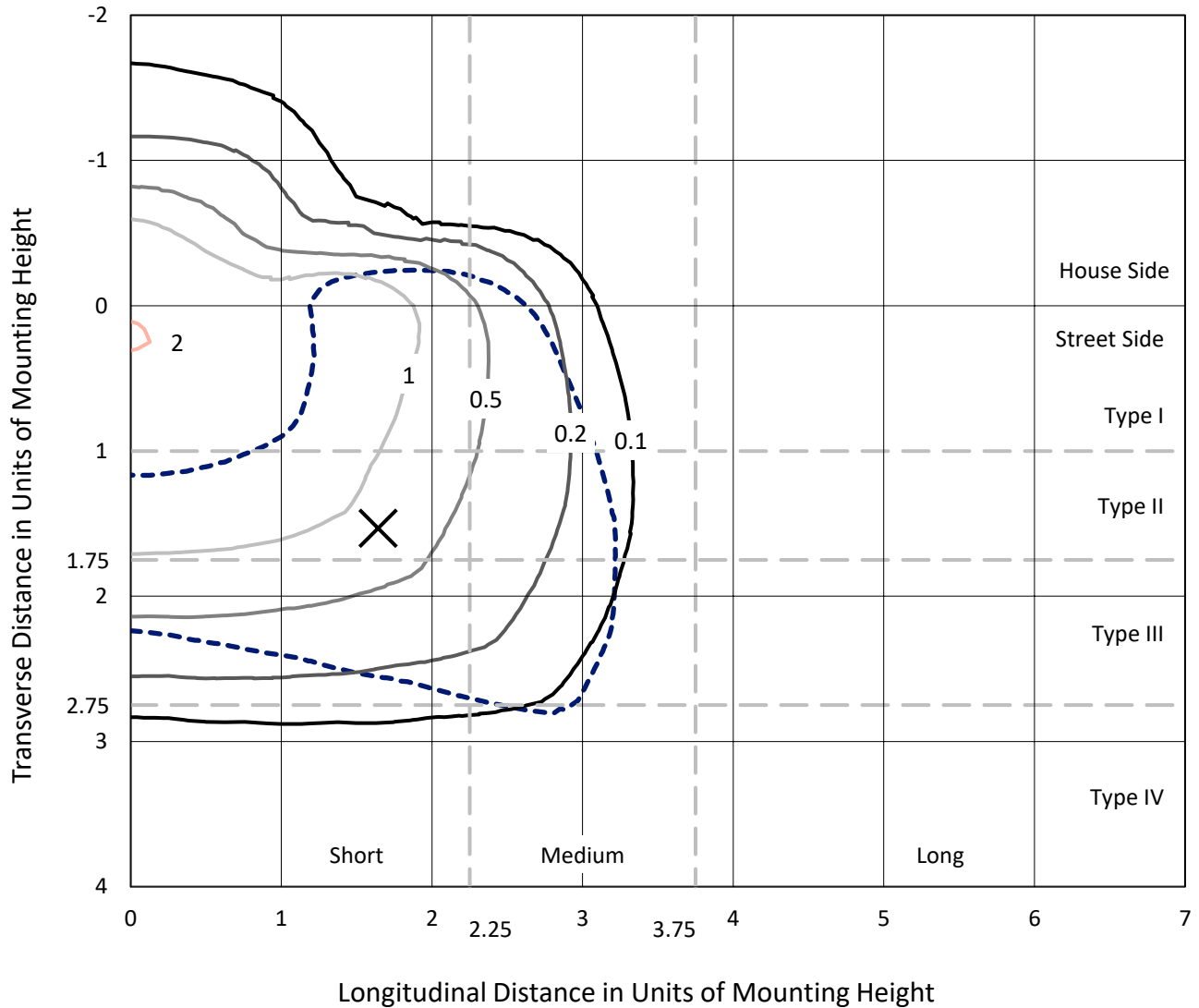
Input Watts (W): 92.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

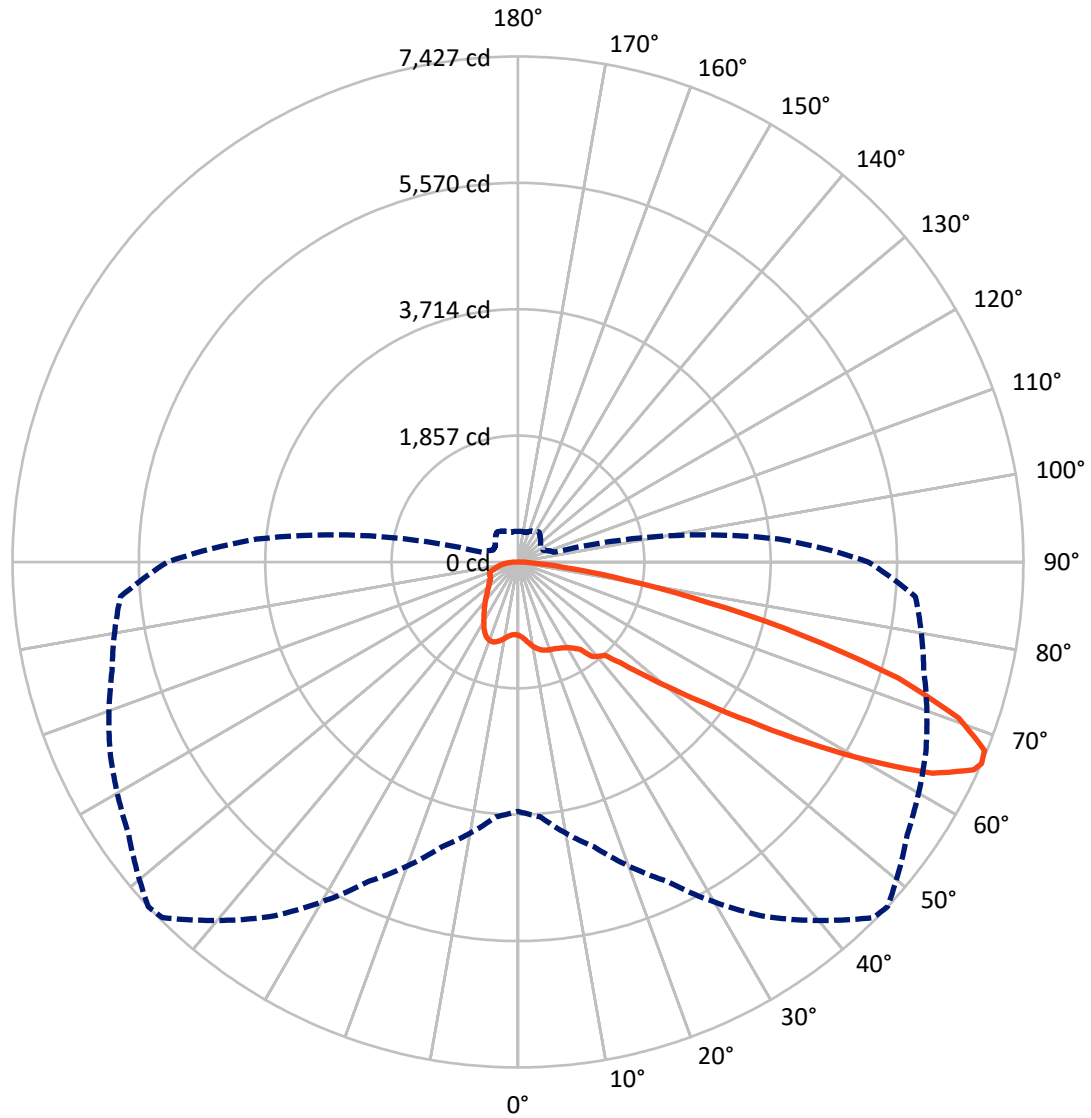
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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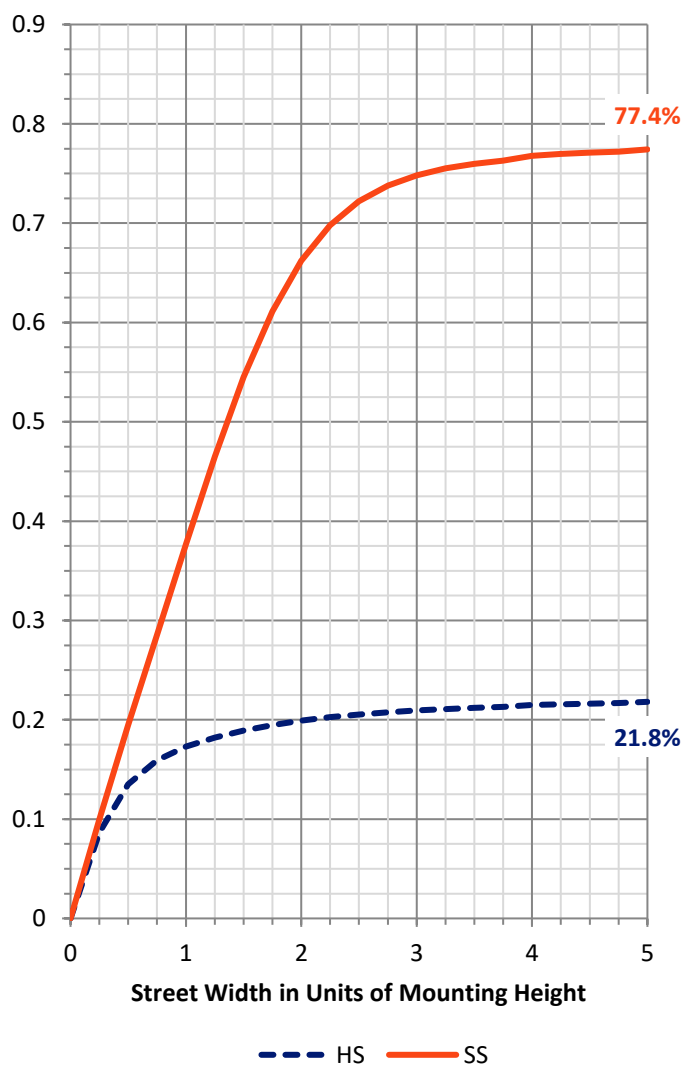
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2378.7	0.0	2378.7
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	8320.3	0.0	8320.3
	% Fixture	77.8	0.0	77.8
Total	Lumens	10699.0	0.0	10699.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.4	1.0
10°-20°	359.1	3.4
20°-30°	598.9	5.6
30°-40°	869.7	8.1
40°-50°	1330.1	12.4
50°-60°	2514.3	23.5
60°-70°	3248.8	30.4
70°-80°	1460.3	13.6
80°-90°	208.3	1.9
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°	10699.0	100.0
0°-180°	10699.0	100.0

Coefficient of Utilization



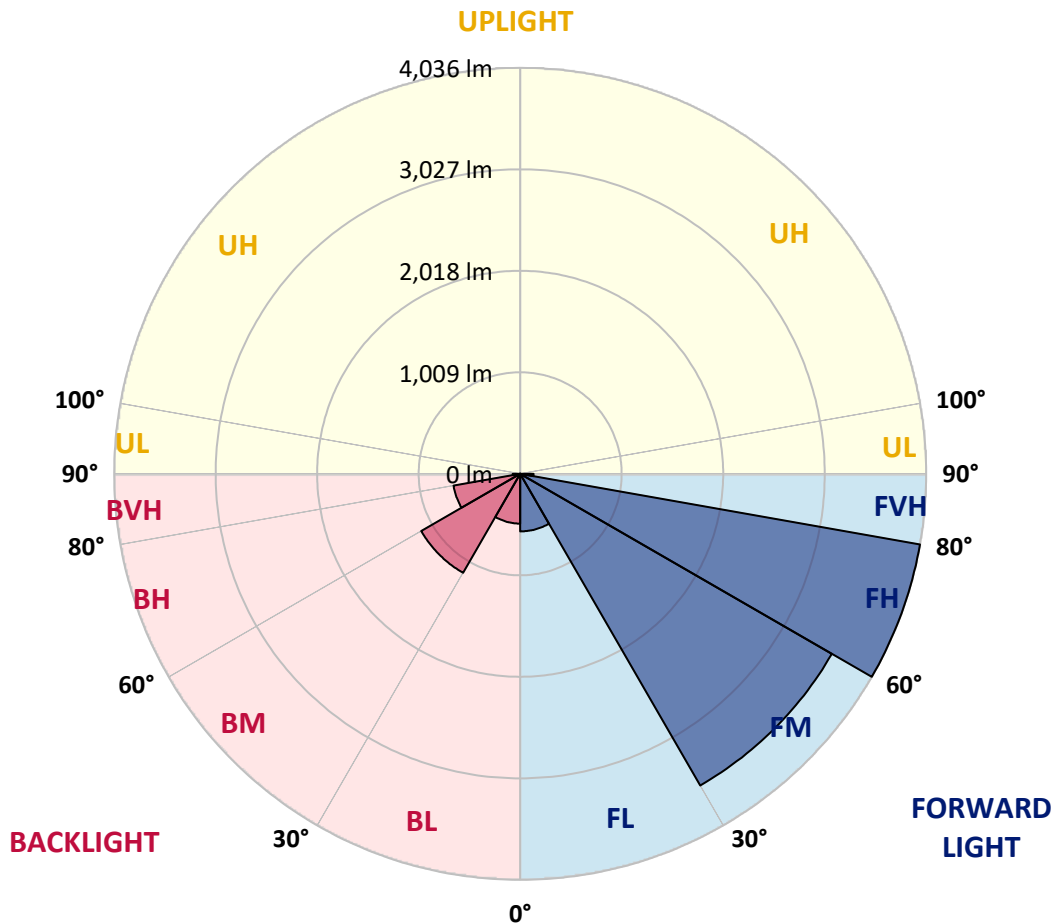
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	572.4	5.4			
FM (30°-60°)	3578.0	33.4			
FH (60°-80°)	4036.1	37.7			G2/5000
FVH (80°-90°)	133.8	1.3			G2/225
BL (0°-30°)	495.0	4.6	B1/500		
BM (30°-60°)	1136.2	10.6	B2/2500		
BH (60°-80°)	673.0	6.3	B2/1000		G2/1000
BVH (80°-90°)	74.5	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6
2.5°	1136.6	1127.9	1122.1	1119.2	1113.4	1101.7	1101.7	1098.8	1087.2	1081.4	1078.5
5°	1226.7	1220.9	1206.4	1194.8	1177.3	1154.1	1151.2	1133.7	1110.5	1093.0	1081.4
7.5°	1313.9	1308.1	1293.6	1276.2	1247.1	1218.0	1209.3	1186.0	1148.2	1122.1	1101.7
10°	1389.5	1380.8	1363.4	1340.1	1308.1	1276.2	1267.4	1241.3	1203.5	1165.7	1130.8
12.5°	1438.9	1433.1	1412.8	1383.7	1348.8	1316.9	1311.0	1287.8	1250.0	1209.3	1165.7
15°	1462.2	1459.3	1436.0	1407.0	1372.1	1345.9	1343.0	1322.7	1290.7	1250.0	1200.6
17.5°	1456.4	1453.5	1433.1	1404.1	1377.9	1363.4	1363.4	1348.8	1322.7	1287.8	1235.5
20°	1427.3	1427.3	1409.9	1389.5	1375.0	1372.1	1372.1	1369.2	1351.7	1322.7	1270.3
22.5°	1398.2	1398.2	1386.6	1372.1	1369.2	1380.8	1383.7	1389.5	1383.7	1360.5	1313.9
25°	1404.1	1401.2	1386.6	1369.2	1372.1	1398.2	1404.1	1418.6	1415.7	1398.2	1357.5
27.5°	1468.0	1465.1	1427.3	1392.4	1389.5	1421.5	1427.3	1447.7	1447.7	1433.1	1407.0
30°	1627.9	1633.7	1563.9	1476.7	1433.1	1453.5	1459.3	1482.5	1494.2	1500.0	1479.6
32.5°	1872.1	1863.4	1758.7	1616.3	1520.3	1500.0	1508.7	1529.1	1569.8	1581.4	1532.0
35°	2119.2	2125.0	2023.2	1843.0	1659.9	1584.3	1578.5	1607.5	1668.6	1616.3	1529.1
37.5°	2348.8	2340.1	2220.9	2026.2	1843.0	1755.8	1758.7	1747.1	1694.8	1590.1	1549.4
40°	2598.8	2575.6	2476.7	2226.7	1994.2	1848.8	1822.7	1723.8	1680.2	1636.6	1630.8
42.5°	2845.9	2848.8	2767.4	2520.3	2174.4	1915.7	1875.0	1773.2	1802.3	1793.6	1787.8
45°	3157.0	3157.0	3075.6	2845.9	2459.3	2165.7	2110.5	1988.4	2034.9	2069.8	2139.5
47.5°	3441.8	3424.4	3401.1	3206.4	2831.4	2491.3	2468.0	2328.5	2450.6	2558.1	2700.6
50°	3744.2	3720.9	3706.4	3587.2	3319.7	2985.4	2915.7	2770.3	3037.8	3238.4	3502.9
52.5°	4215.1	4174.4	4098.8	4032.0	3927.3	3540.7	3453.5	3345.9	3691.8	3944.7	4485.4
55°	4639.5	4604.6	4531.9	4581.4	4566.8	4215.1	4139.5	4037.8	4412.8	4720.9	5340.1
57.5°	4796.5	4799.4	4898.2	5162.8	5302.3	5098.8	4991.2	4889.5	5206.4	5348.8	5906.9
60°	4869.2	4860.4	5116.2	5546.5	6000.0	6061.0	5924.4	5715.1	5834.3	5843.0	6386.6
62.5°	4712.2	4735.4	5087.2	5706.4	6418.6	6857.5	6837.2	6470.9	6360.4	6238.3	6514.5
65°	4116.3	4148.2	4665.7	5421.5	6485.4	7340.1	7360.4	6933.1	6625.0	6284.8	6151.1
66°	3662.8	3758.7	4334.3	5174.4	6363.3	7389.5	7427.3	6982.5	6613.3	6174.4	5863.3
67.5°	3072.7	3066.8	3709.3	4630.8	6023.2	7345.9	7395.3	6912.7	6456.4	5848.8	5287.8
70°	1880.8	1938.9	2491.3	3456.4	4985.4	6802.3	6869.1	6421.5	5779.0	4953.5	3909.9
72.5°	965.1	1061.0	1424.4	2247.1	3619.2	5622.1	5848.8	5392.4	4723.8	3584.3	2386.6
75°	511.6	505.8	671.5	1218.0	2311.0	4218.0	4337.2	4043.6	3264.5	2136.6	1215.1
77.5°	273.3	287.8	351.7	625.0	1270.3	2694.8	2845.9	2607.5	1860.5	1093.0	581.4
80°	186.0	194.8	238.4	351.7	688.9	1462.2	1601.7	1389.5	973.8	517.4	273.3
82.5°	119.2	125.0	162.8	218.0	412.8	709.3	747.1	712.2	476.7	293.6	165.7
85°	72.7	75.6	98.8	139.5	258.7	287.8	299.4	302.3	267.4	191.9	90.1
87.5°	34.9	37.8	55.2	69.8	122.1	104.7	95.9	98.8	148.3	113.4	40.7
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°	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6
2.5°	1075.6	1072.7	1066.9	1063.9	1066.9	1066.9	1066.9	1069.8	1075.6	1075.6	1078.5
5°	1075.6	1069.8	1063.9	1063.9	1069.8	1075.6	1081.4	1093.0	1098.8	1101.7	1101.7
7.5°	1090.1	1084.3	1078.5	1078.5	1087.2	1098.8	1110.5	1125.0	1139.5	1151.2	1151.2
10°	1119.2	1110.5	1104.6	1107.6	1122.1	1136.6	1151.2	1168.6	1183.1	1197.7	1197.7
12.5°	1151.2	1142.4	1133.7	1139.5	1159.9	1177.3	1191.9	1200.6	1215.1	1226.7	1226.7
15°	1183.1	1168.6	1165.7	1177.3	1197.7	1209.3	1215.1	1215.1	1220.9	1232.6	1232.6
17.5°	1218.0	1203.5	1200.6	1212.2	1229.6	1229.6	1218.0	1209.3	1206.4	1215.1	1218.0
20°	1252.9	1238.4	1238.4	1247.1	1244.2	1223.8	1203.5	1188.9	1177.3	1186.0	1188.9
22.5°	1296.5	1282.0	1276.2	1264.5	1238.4	1197.7	1165.7	1148.2	1139.5	1145.3	1151.2
25°	1340.1	1328.5	1313.9	1273.2	1212.2	1148.2	1107.6	1093.0	1095.9	1107.6	1113.4
27.5°	1395.3	1389.5	1354.6	1267.4	1165.7	1078.5	1037.8	1034.9	1046.5	1063.9	1072.7
30°	1462.2	1453.5	1392.4	1250.0	1101.7	997.1	968.0	973.8	991.3	1005.8	1014.5
32.5°	1508.7	1502.9	1409.9	1209.3	1023.2	924.4	901.2	901.2	909.9	930.2	938.9
35°	1523.2	1546.5	1421.5	1148.2	930.2	860.5	837.2	822.7	822.7	840.1	845.9
37.5°	1572.7	1625.0	1427.3	1066.9	854.6	802.3	773.3	747.1	738.4	735.5	735.5
40°	1686.0	1747.1	1424.4	962.2	782.0	744.2	709.3	680.2	657.0	625.0	627.9
42.5°	1883.7	1930.2	1415.7	851.7	718.0	691.9	657.0	622.1	584.3	549.4	546.5
45°	2264.5	2194.8	1392.4	755.8	659.9	645.3	613.4	572.7	526.2	494.2	494.2
47.5°	2866.3	2674.4	1377.9	665.7	607.6	604.6	575.6	532.0	485.5	462.2	459.3
50°	3691.8	3337.2	1401.2	601.7	561.0	569.8	546.5	505.8	468.0	447.7	444.8
52.5°	4639.5	4049.4	1427.3	561.0	526.2	543.6	532.0	494.2	456.4	439.0	436.0
55°	5372.1	4627.9	1389.5	523.3	491.3	517.4	517.4	482.6	450.6	433.1	433.1
57.5°	5886.6	4860.4	1258.7	488.4	462.2	494.2	502.9	476.7	447.7	441.9	441.9
60°	6107.5	4848.8	1029.1	456.4	441.9	470.9	494.2	470.9	453.5	468.0	470.9
62.5°	5988.3	4595.9	799.4	433.1	427.3	465.1	502.9	494.2	473.8	485.5	491.3
65°	5450.5	4151.1	601.7	412.8	409.9	468.0	526.2	508.7	459.3	462.2	465.1
66°	5148.2	3851.7	552.3	407.0	404.1	470.9	537.8	502.9	447.7	453.5	450.6
67.5°	4502.9	3380.8	485.5	395.3	392.4	470.9	552.3	491.3	433.1	441.9	433.1
70°	3302.3	2392.4	415.7	380.8	375.0	462.2	549.4	468.0	401.2	395.3	380.8
72.5°	1915.7	1447.7	369.2	363.4	348.8	407.0	514.5	430.2	366.3	348.8	334.3
75°	941.9	735.5	328.5	343.0	305.2	357.6	465.1	398.3	337.2	314.0	305.2
77.5°	433.1	372.1	296.5	314.0	270.3	308.1	424.4	363.4	299.4	264.5	255.8
80°	235.5	232.6	250.0	261.6	226.7	270.3	375.0	316.9	252.9	215.1	203.5
82.5°	145.3	148.3	183.1	200.6	177.3	235.5	331.4	264.5	191.9	151.2	154.1
85°	75.6	84.3	122.1	133.7	116.3	174.4	250.0	177.3	107.6	78.5	78.5
87.5°	26.2	34.9	61.0	72.7	64.0	104.7	157.0	84.3	23.3	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)