

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: P573416

Luminaire Tested: **ARCH-S-PA2-70-750-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573416
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-PA2-70-750-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 725mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10669 lumens
Efficiency: N/A
Efficacy: 145.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

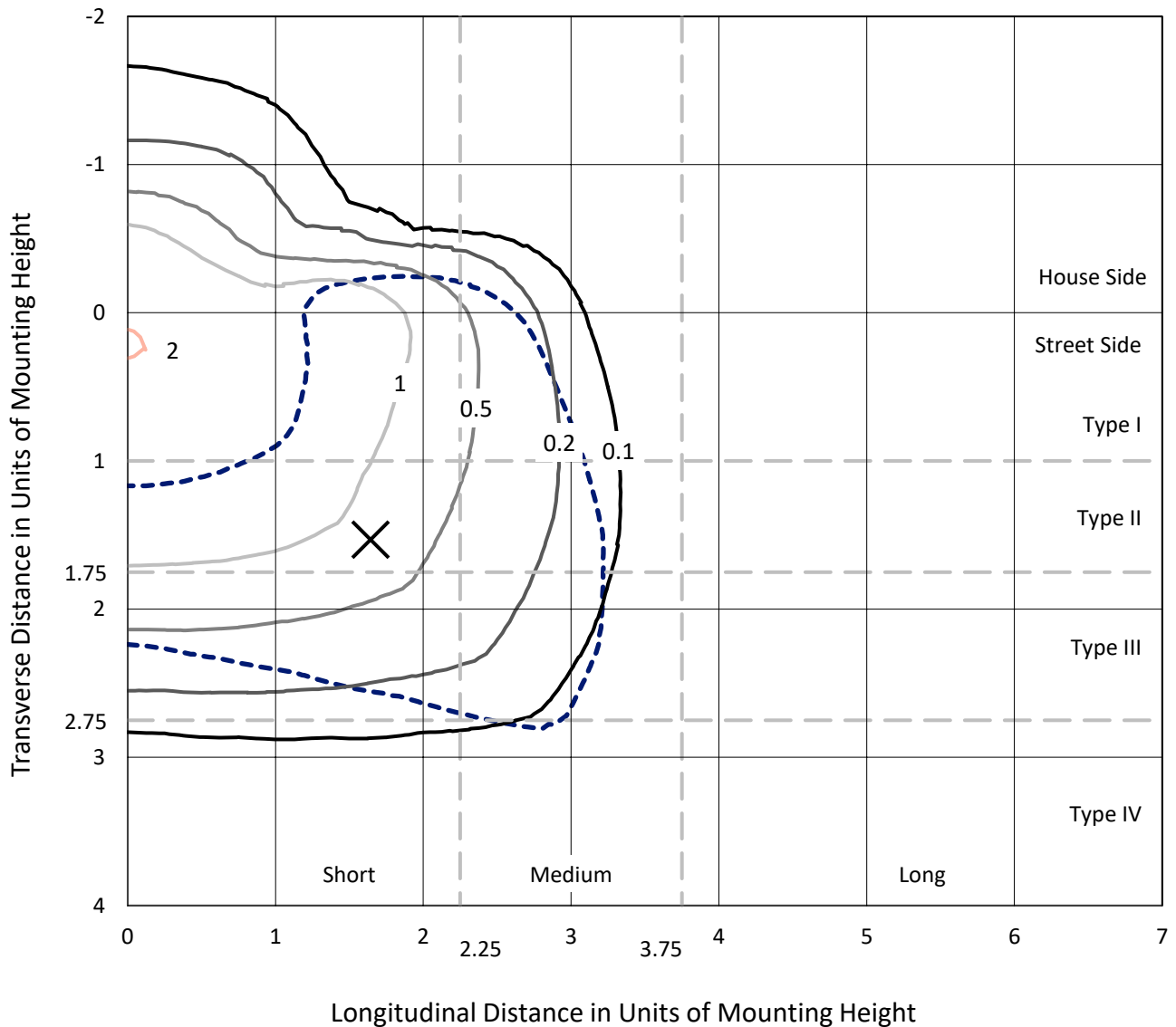
Input Watts (W): 73.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P573416
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Iso-Footcandle Lines of Horizontal Illumination

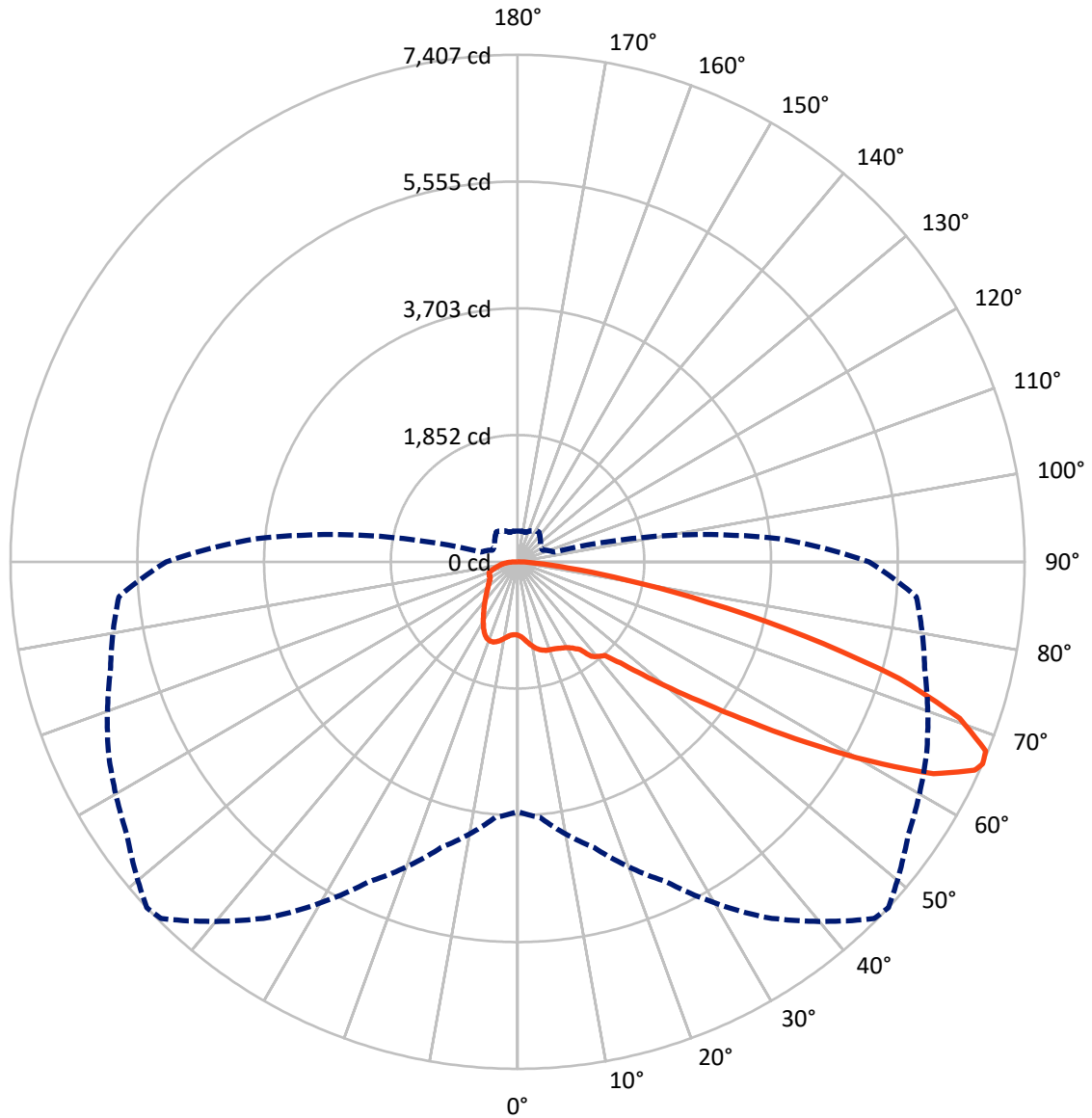
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P573416
CATALOG NUMBER: ARCH-S-PA2-70-750-U-T4W

Luminous Intensity Polar Plot



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

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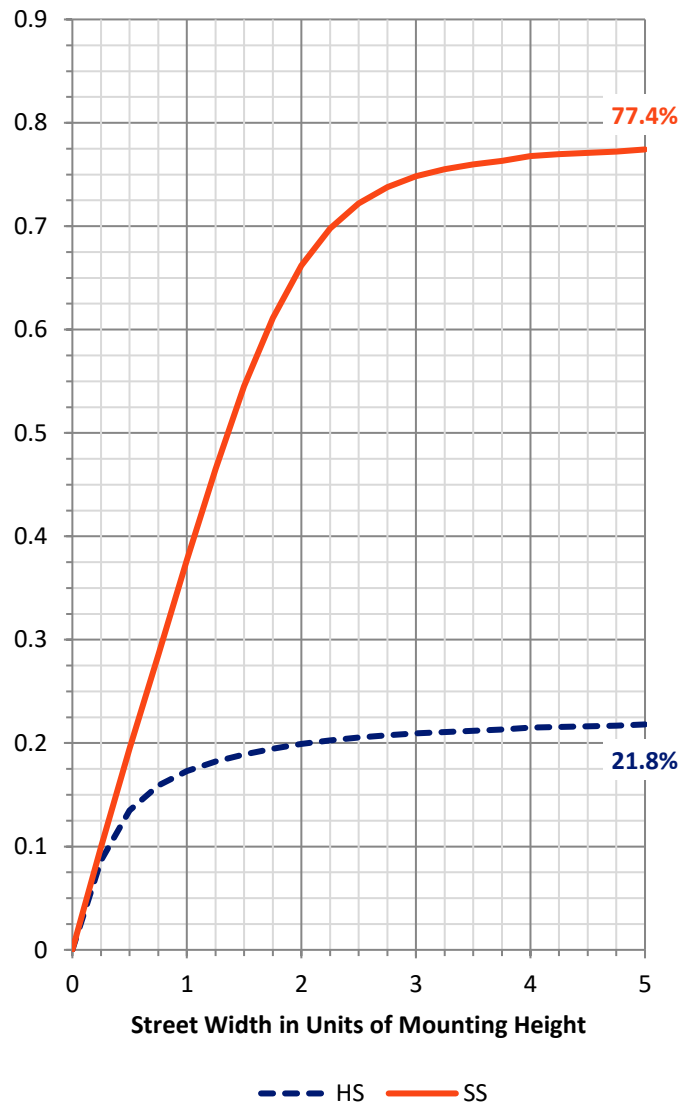
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2372.0	0.0	2372.0
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	8297.0	0.0	8297.0
	% Fixture	77.8	0.0	77.8
Total	Lumens	10669.0	0.0	10669.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.1	1.0
10°-20°	358.1	3.4
20°-30°	597.2	5.6
30°-40°	867.3	8.1
40°-50°	1326.4	12.4
50°-60°	2507.2	23.5
60°-70°	3239.7	30.4
70°-80°	1456.2	13.6
80°-90°	207.7	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°	10669.0	100.0
0°-180°	10669.0	100.0

Coefficient of Utilization



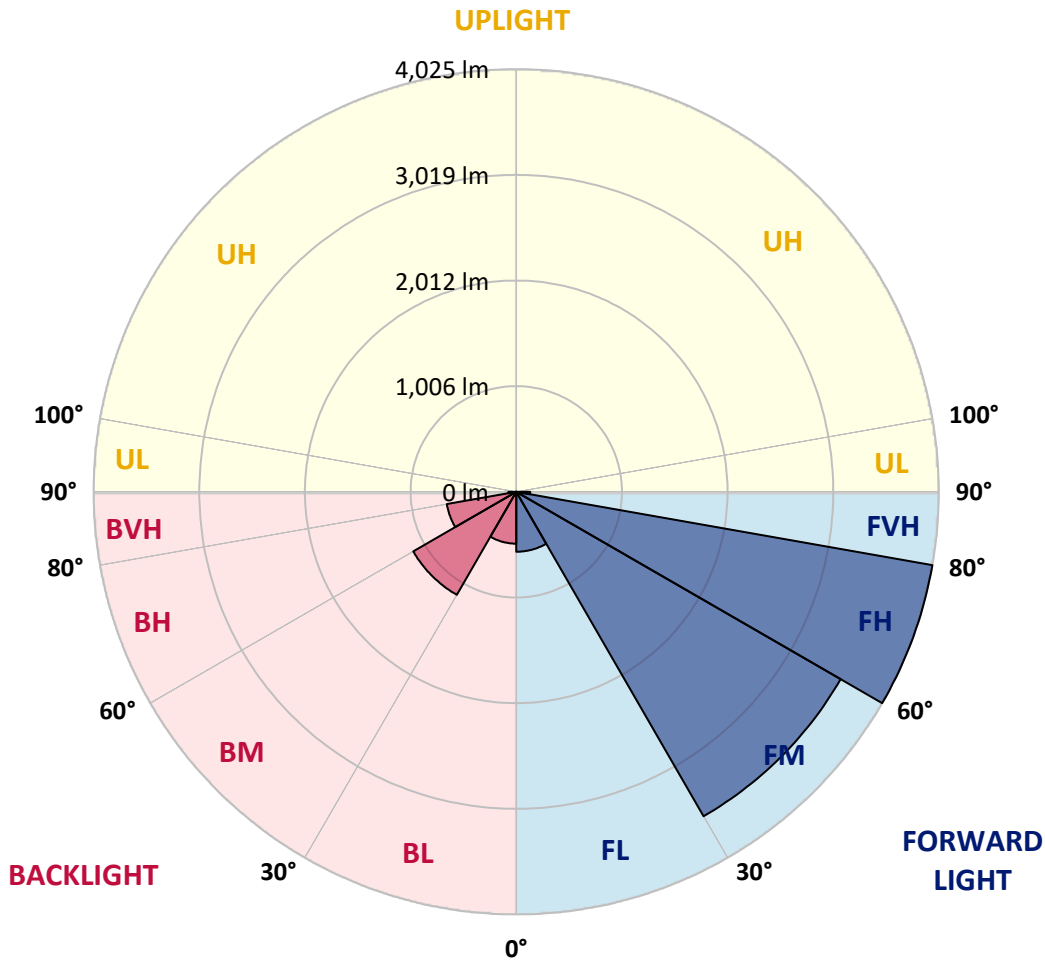
REPORT NUMBER: P573416
 CATALOG NUMBER: ARCH-S-PA2-70-750-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	570.8	5.4			
FM (30°-60°)	3567.9	33.4			
FH (60°-80°)	4024.8	37.7			G2/5000
FVH (80°-90°)	133.5	1.3			G2/225
BL (0°-30°)	493.6	4.6	B1/500		
BM (30°-60°)	1133.0	10.6	B2/2500		
BH (60°-80°)	671.2	6.3	B2/1000		G2/1000
BVH (80°-90°)	74.2	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°	1072.6	1072.6	1072.6	1072.6	1072.6	1072.6	1072.6	1072.6	1072.6	1072.6	1072.6
2.5°	1133.4	1124.7	1118.9	1116.0	1110.2	1098.6	1098.6	1095.7	1084.2	1078.4	1075.5
5°	1223.3	1217.5	1203.0	1191.4	1174.0	1150.8	1147.9	1130.5	1107.3	1090.0	1078.4
7.5°	1310.3	1304.5	1290.0	1272.6	1243.6	1214.6	1205.9	1182.7	1145.0	1118.9	1098.6
10°	1385.6	1376.9	1359.5	1336.4	1304.5	1272.6	1263.9	1237.8	1200.1	1162.4	1127.6
12.5°	1434.9	1429.1	1408.8	1379.8	1345.0	1313.2	1307.4	1284.2	1246.5	1205.9	1162.4
15°	1458.1	1455.2	1432.0	1403.0	1368.2	1342.1	1339.2	1319.0	1287.1	1246.5	1197.2
17.5°	1452.3	1449.4	1429.1	1400.1	1374.0	1359.5	1359.5	1345.0	1319.0	1284.2	1232.0
20°	1423.3	1423.3	1405.9	1385.6	1371.1	1368.2	1368.2	1365.3	1347.9	1319.0	1266.8
22.5°	1394.3	1394.3	1382.7	1368.2	1365.3	1376.9	1379.8	1385.6	1379.8	1356.6	1310.3
25°	1400.1	1397.2	1382.7	1365.3	1368.2	1394.3	1400.1	1414.6	1411.7	1394.3	1353.7
27.5°	1463.9	1461.0	1423.3	1388.5	1385.6	1417.5	1423.3	1443.6	1443.6	1429.1	1403.0
30°	1623.3	1629.1	1559.6	1472.6	1429.1	1449.4	1455.2	1478.4	1490.0	1495.8	1475.5
32.5°	1866.8	1858.1	1753.8	1611.7	1516.1	1495.8	1504.5	1524.8	1565.4	1577.0	1527.7
35°	2113.2	2119.0	2017.6	1837.8	1655.2	1579.9	1574.1	1603.0	1663.9	1611.7	1524.8
37.5°	2342.2	2333.5	2214.7	2020.5	1837.8	1750.9	1753.8	1742.2	1690.0	1585.6	1545.1
40°	2591.5	2568.3	2469.8	2220.5	1988.6	1843.6	1817.6	1719.0	1675.5	1632.0	1626.2
42.5°	2837.9	2840.8	2759.7	2513.3	2168.3	1910.3	1869.7	1768.3	1797.3	1788.6	1782.8
45°	3148.1	3148.1	3066.9	2837.9	2452.4	2159.6	2104.5	1982.8	2029.2	2064.0	2133.5
47.5°	3432.2	3414.8	3391.6	3197.4	2823.4	2484.3	2461.1	2321.9	2443.7	2551.0	2693.0
50°	3733.7	3710.5	3696.0	3577.1	3310.4	2977.1	2907.5	2762.6	3029.3	3229.3	3493.1
52.5°	4203.3	4162.7	4087.3	4020.6	3916.3	3530.7	3443.8	3336.5	3681.5	3933.7	4472.9
55°	4626.5	4591.7	4519.2	4568.5	4554.0	4203.3	4127.9	4026.4	4400.4	4707.7	5325.1
57.5°	4783.0	4785.9	4884.5	5148.3	5287.4	5084.5	4977.3	4875.8	5191.8	5333.8	5890.4
60°	4855.5	4846.8	5101.9	5530.9	5983.1	6044.0	5907.8	5699.1	5817.9	5826.6	6368.7
62.5°	4699.0	4722.2	5072.9	5690.4	6400.6	6838.3	6818.0	6452.7	6342.6	6220.8	6496.2
65°	4104.7	4136.6	4652.6	5406.3	6467.2	7319.5	7339.8	6913.7	6606.4	6267.2	6133.9
66°	3652.5	3748.2	4322.1	5159.9	6345.5	7368.8	7406.5	6962.9	6594.8	6157.1	5846.9
67.5°	3064.0	3058.2	3698.9	4617.8	6006.3	7325.3	7374.6	6893.4	6438.3	5832.4	5272.9
70°	1875.5	1933.5	2484.3	3446.7	4971.5	6783.2	6849.9	6403.5	5762.8	4939.6	3898.9
72.5°	962.4	1058.1	1420.4	2240.8	3609.0	5606.3	5832.4	5377.3	4710.6	3574.2	2379.9
75°	510.2	504.4	669.6	1214.6	2304.6	4206.2	4325.0	4032.2	3255.4	2130.6	1211.7
77.5°	272.5	287.0	350.8	623.2	1266.8	2687.2	2837.9	2600.2	1855.2	1090.0	579.8
80°	185.5	194.2	237.7	350.8	687.0	1458.1	1597.2	1385.6	971.1	516.0	272.5
82.5°	118.9	124.6	162.3	217.4	411.6	707.3	745.0	710.2	475.4	292.8	165.2
85°	72.5	75.4	98.6	139.1	258.0	287.0	298.6	301.5	266.7	191.3	89.9
87.5°	34.8	37.7	55.1	69.6	121.7	104.4	95.7	98.6	147.8	113.1	40.6
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°	1072.6	1072.6	1072.6	1072.6	1072.6	1072.6	1072.6	1072.6	1072.6	1072.6	1072.6
2.5°	1072.6	1069.7	1063.9	1061.0	1063.9	1063.9	1063.9	1066.8	1072.6	1072.6	1075.5
5°	1072.6	1066.8	1061.0	1061.0	1066.8	1072.6	1078.4	1090.0	1095.7	1098.6	1098.6
7.5°	1087.1	1081.3	1075.5	1075.5	1084.2	1095.7	1107.3	1121.8	1136.3	1147.9	1147.9
10°	1116.0	1107.3	1101.5	1104.4	1118.9	1133.4	1147.9	1165.3	1179.8	1194.3	1194.3
12.5°	1147.9	1139.2	1130.5	1136.3	1156.6	1174.0	1188.5	1197.2	1211.7	1223.3	1223.3
15°	1179.8	1165.3	1162.4	1174.0	1194.3	1205.9	1211.7	1211.7	1217.5	1229.1	1229.1
17.5°	1214.6	1200.1	1197.2	1208.8	1226.2	1226.2	1214.6	1205.9	1203.0	1211.7	1214.6
20°	1249.4	1234.9	1234.9	1243.6	1240.7	1220.4	1200.1	1185.6	1174.0	1182.7	1185.6
22.5°	1292.9	1278.4	1272.6	1261.0	1234.9	1194.3	1162.4	1145.0	1136.3	1142.1	1147.9
25°	1336.4	1324.8	1310.3	1269.7	1208.8	1145.0	1104.4	1090.0	1092.9	1104.4	1110.2
27.5°	1391.4	1385.6	1350.8	1263.9	1162.4	1075.5	1034.9	1032.0	1043.6	1061.0	1069.7
30°	1458.1	1449.4	1388.5	1246.5	1098.6	994.3	965.3	971.1	988.5	1003.0	1011.7
32.5°	1504.5	1498.7	1405.9	1205.9	1020.4	921.8	898.6	898.6	907.3	927.6	936.3
35°	1519.0	1542.2	1417.5	1145.0	927.6	858.0	834.9	820.4	820.4	837.8	843.6
37.5°	1568.3	1620.4	1423.3	1063.9	852.2	800.1	771.1	745.0	736.3	733.4	733.4
40°	1681.3	1742.2	1420.4	959.5	779.8	742.1	707.3	678.3	655.1	623.2	626.1
42.5°	1878.4	1924.8	1411.7	849.4	716.0	689.9	655.1	620.3	582.7	547.9	545.0
45°	2258.2	2188.6	1388.5	753.7	658.0	643.5	611.6	571.1	524.7	492.8	492.8
47.5°	2858.2	2666.9	1374.0	663.8	605.9	603.0	574.0	530.5	484.1	460.9	458.0
50°	3681.5	3327.8	1397.2	600.1	559.5	568.2	545.0	504.4	466.7	446.4	443.5
52.5°	4626.5	4038.0	1423.3	559.5	524.7	542.1	530.5	492.8	455.1	437.7	434.8
55°	5357.0	4614.9	1385.6	521.8	489.9	516.0	516.0	481.2	449.3	431.9	431.9
57.5°	5870.1	4846.8	1255.2	487.0	460.9	492.8	501.5	475.4	446.4	440.6	440.6
60°	6090.4	4835.2	1026.2	455.1	440.6	469.6	492.8	469.6	452.2	466.7	469.6
62.5°	5971.5	4583.0	797.2	431.9	426.1	463.8	501.5	492.8	472.5	484.1	489.9
65°	5435.3	4139.5	600.1	411.6	408.7	466.7	524.7	507.3	458.0	460.9	463.8
66°	5133.8	3840.9	550.8	405.8	402.9	469.6	536.3	501.5	446.4	452.2	449.3
67.5°	4490.3	3371.3	484.1	394.2	391.3	469.6	550.8	489.9	431.9	440.6	431.9
70°	3293.0	2385.7	414.5	379.7	373.9	460.9	547.9	466.7	400.0	394.2	379.7
72.5°	1910.3	1443.6	368.1	362.4	347.9	405.8	513.1	429.0	365.2	347.9	333.4
75°	939.2	733.4	327.6	342.1	304.4	356.6	463.8	397.1	336.3	313.1	304.4
77.5°	431.9	371.0	295.7	313.1	269.6	307.3	423.2	362.4	298.6	263.8	255.1
80°	234.8	231.9	249.3	260.9	226.1	269.6	373.9	316.0	252.2	214.5	202.9
82.5°	144.9	147.8	182.6	200.0	176.8	234.8	330.5	263.8	191.3	150.7	153.6
85°	75.4	84.1	121.7	133.3	116.0	173.9	249.3	176.8	107.3	78.3	78.3
87.5°	26.1	34.8	60.9	72.5	63.8	104.4	156.5	84.1	23.2	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)