

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: P573403

Luminaire Tested: **ARCH-S-PA2-70-740-U-T2U**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573403  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-70-740-U-T2U  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 725mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10576 lumens  
Efficiency: N/A  
Efficacy: 144.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

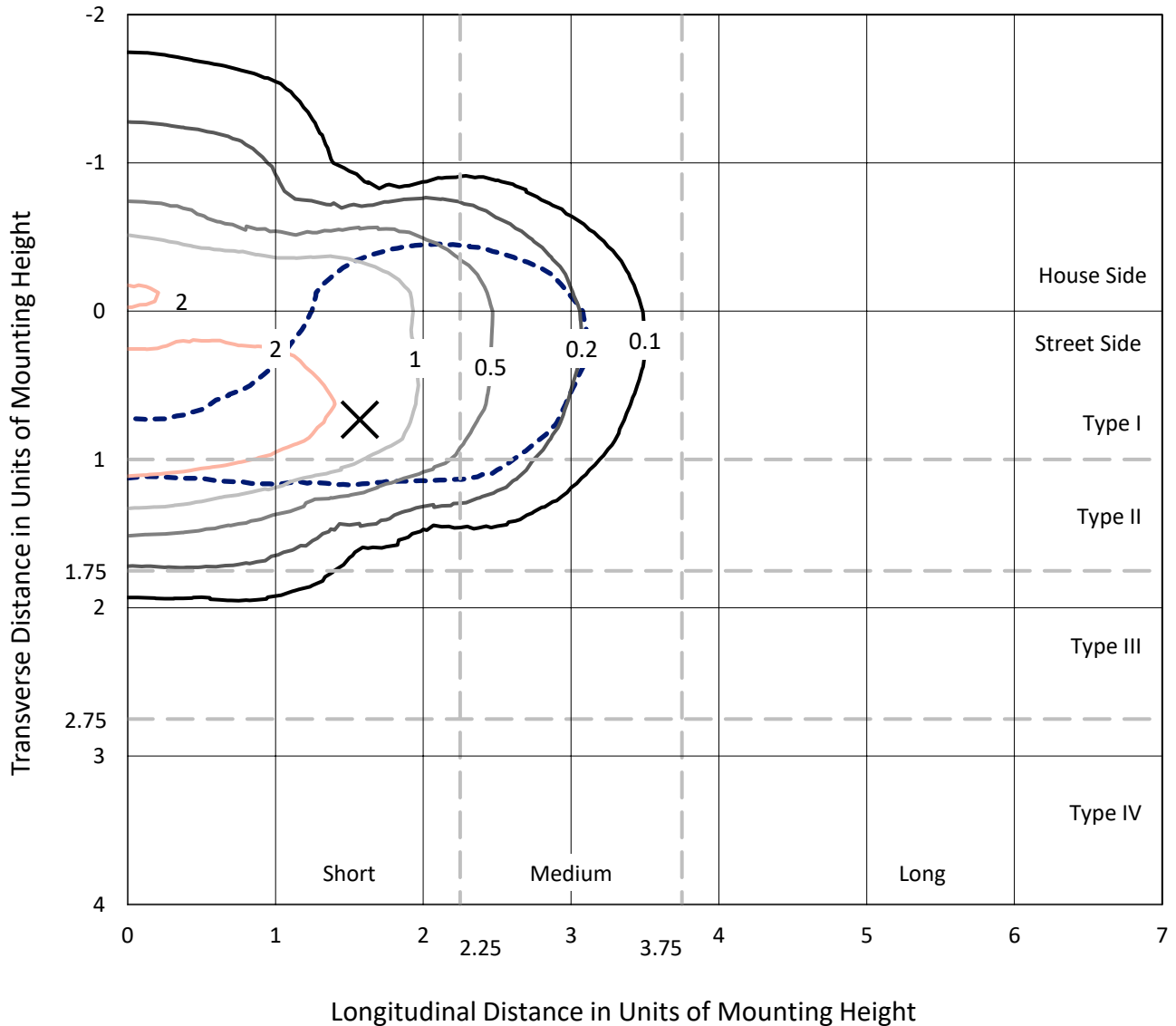
Input Watts (W): 73.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

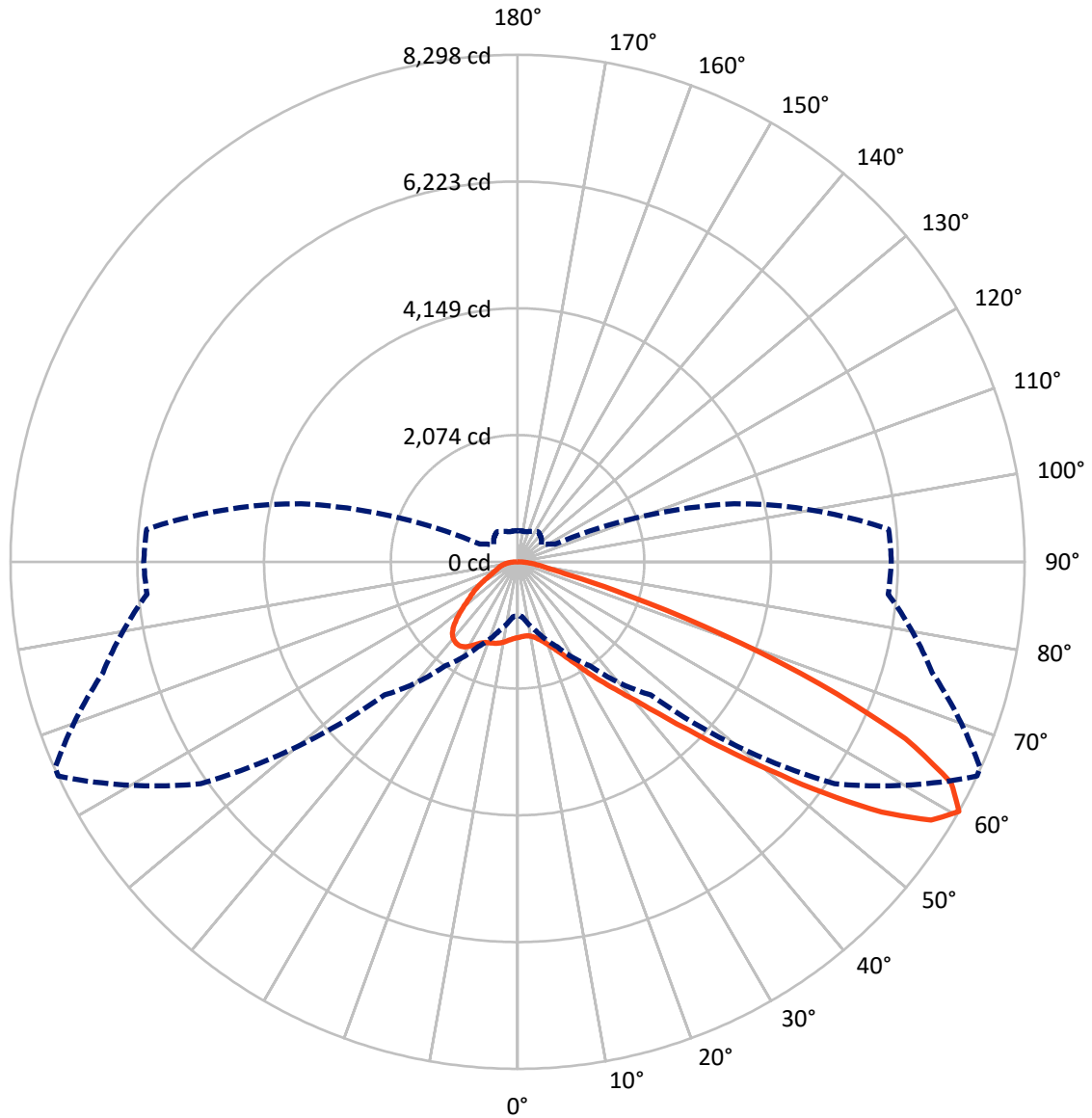
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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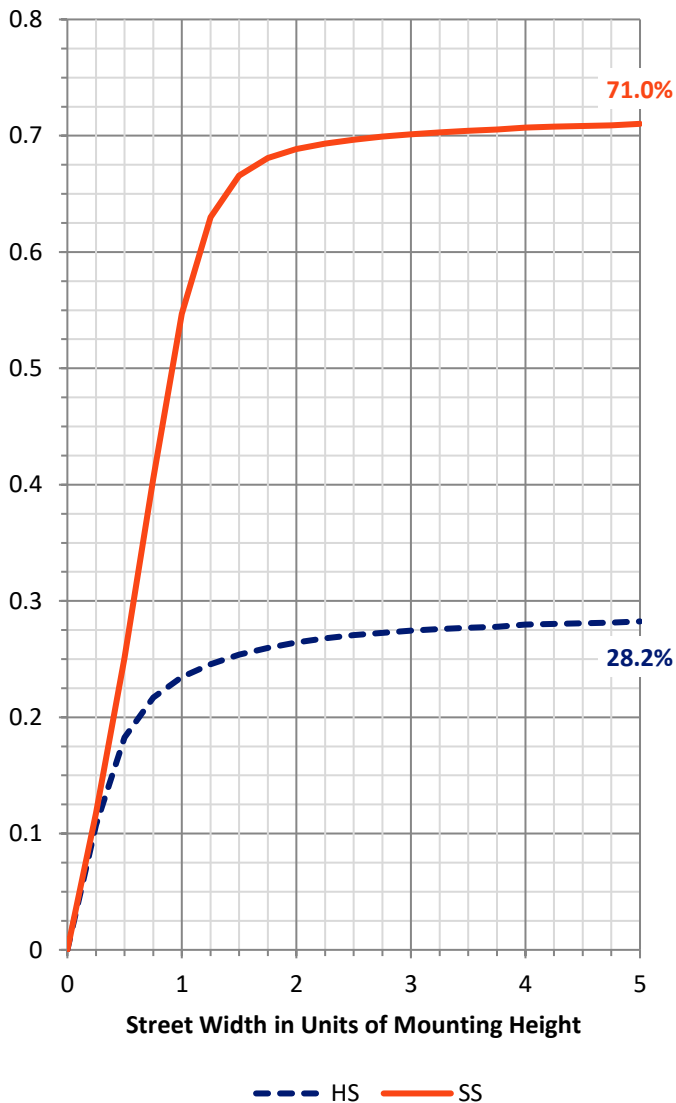
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3027.6	0.0	3027.6
	% Fixture	28.6	0.0	28.6
<b>Street Side</b>	Lumens	7548.4	0.0	7548.4
	% Fixture	71.4	0.0	71.4
<b>Total</b>	Lumens	10576.0	0.0	10576.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.9	1.1
10°-20°	385.8	3.6
20°-30°	739.7	7.0
30°-40°	1284.6	12.1
40°-50°	2178.7	20.6
50°-60°	2712.9	25.7
60°-70°	2186.1	20.7
70°-80°	827.8	7.8
80°-90°	140.4	1.3
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°	10576.0	100.0
0°-180°	10576.0	100.0

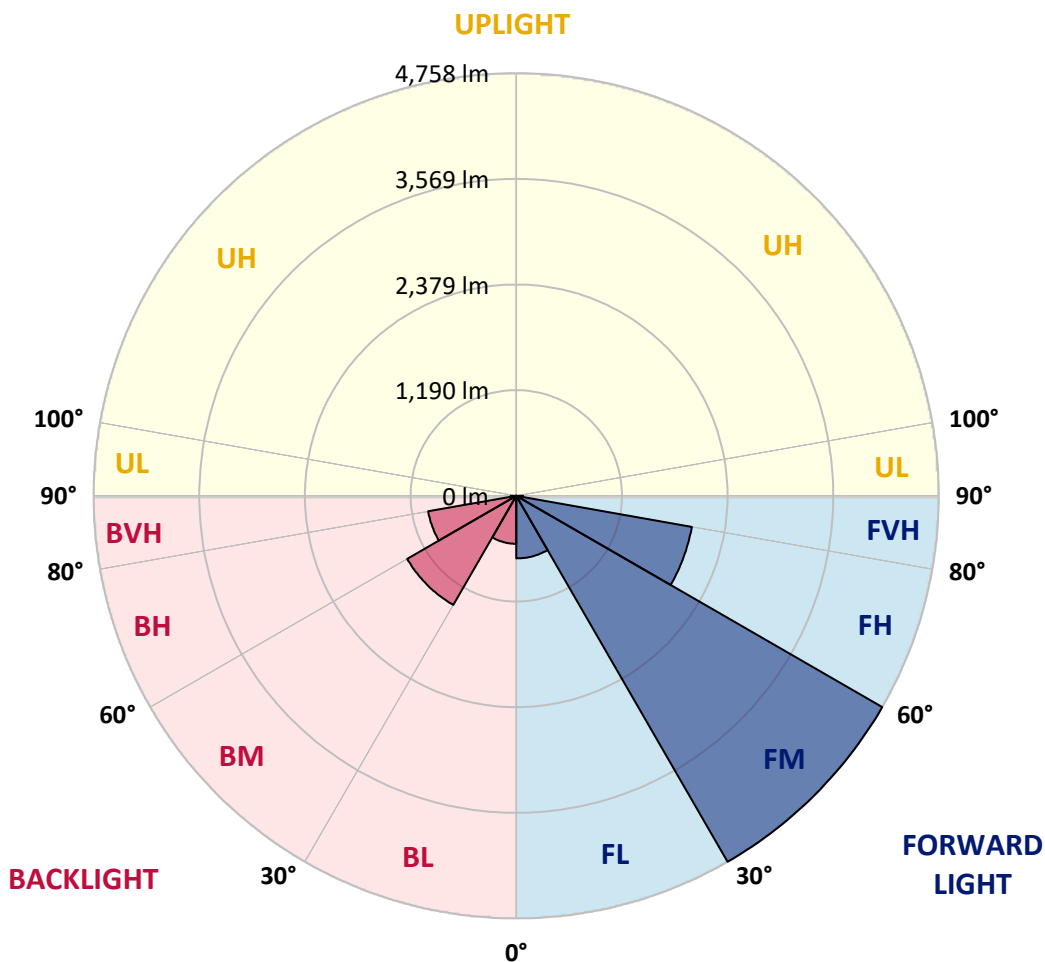


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	705.1	6.7			
FM (30°-60°)	4758.2	45.0			
FH (60°-80°)	2007.3	19.0			G2/5000
FVH (80°-90°)	77.9	0.7			G1/100
BL (0°-30°)	540.3	5.1	B2/1000		
BM (30°-60°)	1418.1	13.4	B2/2500		
BH (60°-80°)	1006.7	9.5	B3/2500		G3/2500
BVH (80°-90°)	62.5	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1240.9	1240.9	1240.9	1240.9	1240.9	1240.9	1240.9	1240.9	1240.9	1240.9	1240.9
2.5°	1211.9	1211.9	1211.9	1214.8	1217.7	1220.6	1226.4	1226.4	1226.4	1229.3	1235.1
5°	1188.7	1185.8	1188.7	1191.6	1197.4	1203.2	1214.8	1220.6	1220.6	1232.2	1243.8
7.5°	1191.6	1185.8	1185.8	1188.7	1194.5	1200.3	1211.9	1220.6	1223.5	1238.0	1258.3
10°	1220.6	1211.9	1211.9	1214.8	1214.8	1220.6	1229.3	1240.9	1243.8	1258.3	1278.6
12.5°	1281.5	1272.8	1269.9	1261.2	1252.5	1258.3	1267.0	1269.9	1272.8	1281.5	1301.8
15°	1409.0	1394.5	1371.3	1354.0	1330.8	1316.3	1313.4	1316.3	1316.3	1319.2	1330.8
17.5°	1591.7	1574.3	1539.5	1501.8	1446.7	1400.3	1385.8	1374.2	1374.2	1365.6	1365.6
20°	1814.9	1788.8	1748.3	1693.2	1612.0	1527.9	1478.6	1452.5	1443.8	1429.3	1409.0
22.5°	2073.0	2055.6	2003.4	1919.3	1797.5	1684.5	1603.3	1545.3	1545.3	1510.5	1467.0
25°	2377.4	2345.5	2284.6	2186.0	2020.8	1858.4	1748.3	1664.2	1655.5	1600.4	1530.8
27.5°	2673.1	2652.8	2577.4	2447.0	2249.8	2061.4	1907.7	1809.1	1794.6	1707.7	1600.4
30°	3032.6	3009.4	2896.4	2713.7	2502.1	2287.5	2107.8	1980.2	1965.7	1846.8	1696.1
32.5°	3479.1	3400.8	3261.7	3052.9	2780.4	2539.8	2333.9	2197.6	2180.2	2044.0	1864.2
35°	4021.3	3954.6	3714.0	3493.6	3168.9	2852.9	2606.4	2426.7	2403.5	2241.1	2015.0
37.5°	4404.0	4372.1	4206.8	4032.9	3661.8	3235.6	2934.1	2684.7	2661.5	2447.0	2154.1
40°	4644.6	4612.7	4566.3	4517.0	4311.2	3829.9	3328.3	2989.1	2951.4	2748.5	2432.5
42.5°	4769.3	4743.2	4751.9	4850.5	4908.4	4833.1	3890.8	3395.0	3368.9	3122.5	2771.7
45°	4696.8	4679.4	4763.5	5024.4	5308.5	5865.2	4612.7	3928.5	3858.9	3566.1	3183.4
47.5°	4348.9	4296.7	4493.9	4937.4	5546.3	6358.1	5482.5	4586.6	4511.2	4090.9	3600.9
50°	3632.8	3618.3	3887.9	4450.4	5453.5	6552.3	6413.2	5363.6	5308.5	4656.2	4064.8
52.5°	2965.9	2960.1	3168.9	3685.0	4862.1	6416.1	7088.7	6288.5	6123.2	5224.5	4569.2
55°	2302.0	2299.1	2484.7	2870.3	3879.2	5775.3	7407.6	7230.8	7109.0	5844.9	5088.2
57.5°	1574.3	1554.0	1794.6	2087.5	2913.8	4575.0	7198.9	7975.9	7900.5	6503.0	5639.1
60°	875.6	904.6	1171.3	1533.7	2084.6	3081.9	6329.1	8297.7	8286.1	7027.8	6088.4
62.5°	620.4	632.0	745.1	1090.1	1371.3	1765.6	4882.4	7964.3	8057.0	7317.7	6343.6
65°	516.1	521.9	577.0	806.0	1003.1	1020.5	3044.2	6975.6	7097.4	7227.9	6398.7
67.5°	487.1	490.0	519.0	594.3	785.7	739.3	1359.8	5325.9	5584.0	6503.0	6039.2
70°	443.6	446.5	490.0	524.8	634.9	582.8	698.7	3537.1	3885.0	5140.4	5207.1
72.5°	379.8	388.5	423.3	492.9	516.1	484.2	539.3	1890.3	2235.3	3438.5	4021.3
75°	327.6	333.4	359.5	417.5	484.2	385.6	458.1	861.1	1008.9	2017.9	2545.5
77.5°	263.8	266.7	304.4	342.1	405.9	313.1	356.6	516.1	542.2	985.7	1151.0
80°	200.0	200.0	226.1	272.5	301.5	301.5	260.9	359.5	374.0	469.7	455.2
82.5°	153.7	150.8	171.1	191.4	217.4	252.2	197.1	237.7	243.5	284.1	243.5
85°	101.5	101.5	113.1	130.5	145.0	139.2	153.7	139.2	145.0	176.9	133.4
87.5°	43.5	43.5	60.9	58.0	63.8	66.7	75.4	66.7	66.7	81.2	60.9
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°	1240.9	1240.9	1240.9	1240.9	1240.9	1240.9	1240.9	1240.9	1240.9	1240.9	1240.9
2.5°	1238.0	1240.9	1246.7	1249.6	1258.3	1261.2	1261.2	1267.0	1267.0	1272.8	1272.8
5°	1246.7	1255.4	1264.1	1272.8	1281.5	1284.4	1290.2	1293.1	1293.1	1298.9	1296.0
7.5°	1264.1	1272.8	1290.2	1298.9	1310.5	1316.3	1313.4	1316.3	1313.4	1316.3	1316.3
10°	1287.3	1298.9	1319.2	1330.8	1339.5	1342.4	1333.7	1325.0	1313.4	1313.4	1313.4
12.5°	1313.4	1322.1	1348.2	1356.9	1362.7	1354.0	1330.8	1313.4	1304.7	1307.6	1304.7
15°	1339.5	1348.2	1368.5	1377.1	1377.1	1351.1	1330.8	1325.0	1322.1	1325.0	1325.0
17.5°	1365.6	1374.2	1391.6	1391.6	1382.9	1362.7	1342.4	1322.1	1307.6	1298.9	1298.9
20°	1400.3	1400.3	1406.1	1406.1	1403.2	1371.3	1322.1	1272.8	1243.8	1226.4	1223.5
22.5°	1446.7	1435.1	1423.5	1423.5	1435.1	1351.1	1255.4	1180.0	1133.6	1127.8	1116.2
25°	1496.0	1469.9	1440.9	1461.2	1440.9	1298.9	1162.6	1061.1	1006.0	985.7	991.5
27.5°	1548.2	1507.6	1464.1	1522.1	1411.9	1197.4	1032.1	919.1	866.9	852.4	852.4
30°	1620.7	1559.8	1496.0	1585.9	1356.9	1081.4	878.5	797.3	768.3	756.7	753.8
32.5°	1759.9	1667.1	1574.3	1643.9	1296.0	930.7	774.1	724.8	690.0	678.4	687.1
35°	1884.5	1754.1	1693.2	1670.0	1200.3	808.9	710.3	666.8	637.8	623.3	623.3
37.5°	1997.6	1872.9	1826.5	1670.0	1075.6	733.5	669.7	634.9	597.2	585.7	585.7
40°	2244.0	2078.8	1997.6	1646.8	922.0	695.8	649.4	608.8	577.0	565.4	562.5
42.5°	2583.2	2360.0	2174.4	1594.6	791.5	678.4	637.8	591.4	565.4	556.7	553.8
45°	2942.7	2745.6	2342.6	1501.8	707.4	661.0	634.9	585.7	553.8	545.1	542.2
47.5°	3377.6	3174.7	2536.9	1359.8	649.4	649.4	632.0	577.0	548.0	539.3	539.3
50°	3858.9	3690.8	2783.3	1197.4	605.9	640.7	626.2	577.0	545.1	536.4	533.5
52.5°	4351.8	4273.5	3041.3	1037.9	562.5	629.1	623.3	577.0	539.3	530.6	530.6
55°	4978.0	4914.2	3339.9	919.1	527.7	605.9	623.3	571.2	530.6	524.8	524.8
57.5°	5592.7	5569.5	3571.9	814.7	501.6	577.0	614.6	562.5	521.9	519.0	519.0
60°	6117.4	6094.2	3670.5	684.2	475.5	548.0	597.2	548.0	507.4	510.3	510.3
62.5°	6442.2	6308.8	3598.0	565.4	449.4	521.9	577.0	530.6	492.9	501.6	498.7
65°	6500.1	6189.9	3316.8	472.6	420.4	492.9	553.8	510.3	472.6	492.9	490.0
67.5°	6073.9	5557.9	2789.1	411.7	391.4	461.0	527.7	481.3	449.4	478.4	469.7
70°	5152.0	4514.1	2064.3	365.3	362.4	423.3	492.9	446.5	417.5	432.0	420.4
72.5°	3835.7	3258.8	1336.6	330.5	330.5	379.8	443.6	403.0	374.0	376.9	365.3
75°	2391.9	2003.4	759.6	298.6	298.6	336.3	394.3	353.7	333.4	321.8	336.3
77.5°	1087.2	881.4	400.1	266.7	269.6	287.0	339.2	301.5	278.3	260.9	269.6
80°	403.0	359.5	260.9	229.0	234.8	237.7	272.5	240.6	220.3	208.7	202.9
82.5°	208.7	194.3	176.9	182.7	191.4	182.7	211.6	179.8	156.6	147.9	124.7
85°	104.4	101.5	107.3	121.8	133.4	113.1	127.6	116.0	95.7	69.6	69.6
87.5°	40.6	43.5	40.6	55.1	60.9	52.2	58.0	40.6	29.0	14.5	11.6
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)