

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: P573594

Luminaire Tested: **ARCH-S-PA2-90-827-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573594
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-38)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-90-827-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 910mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9438 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

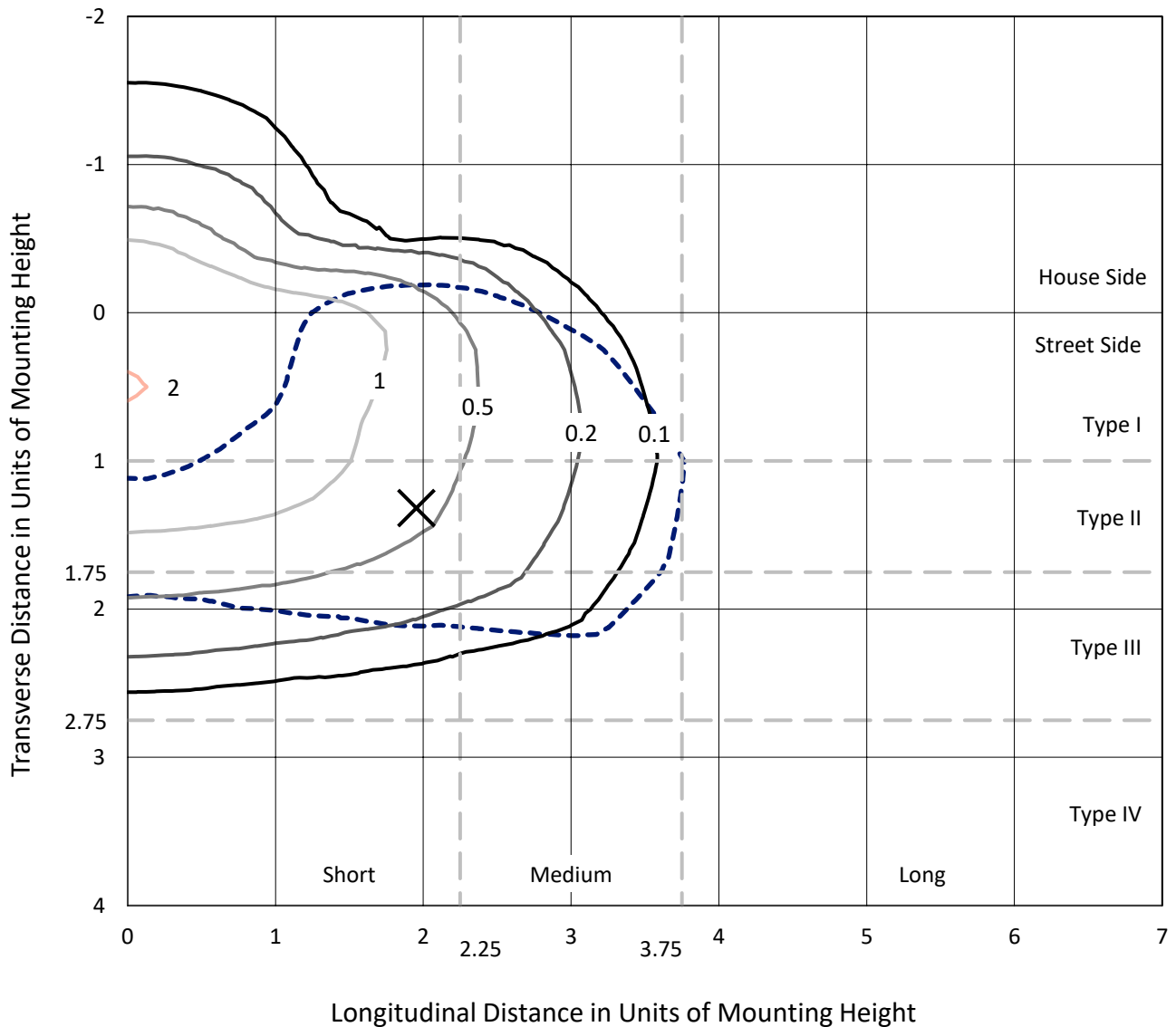
Input Watts (W): 92.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

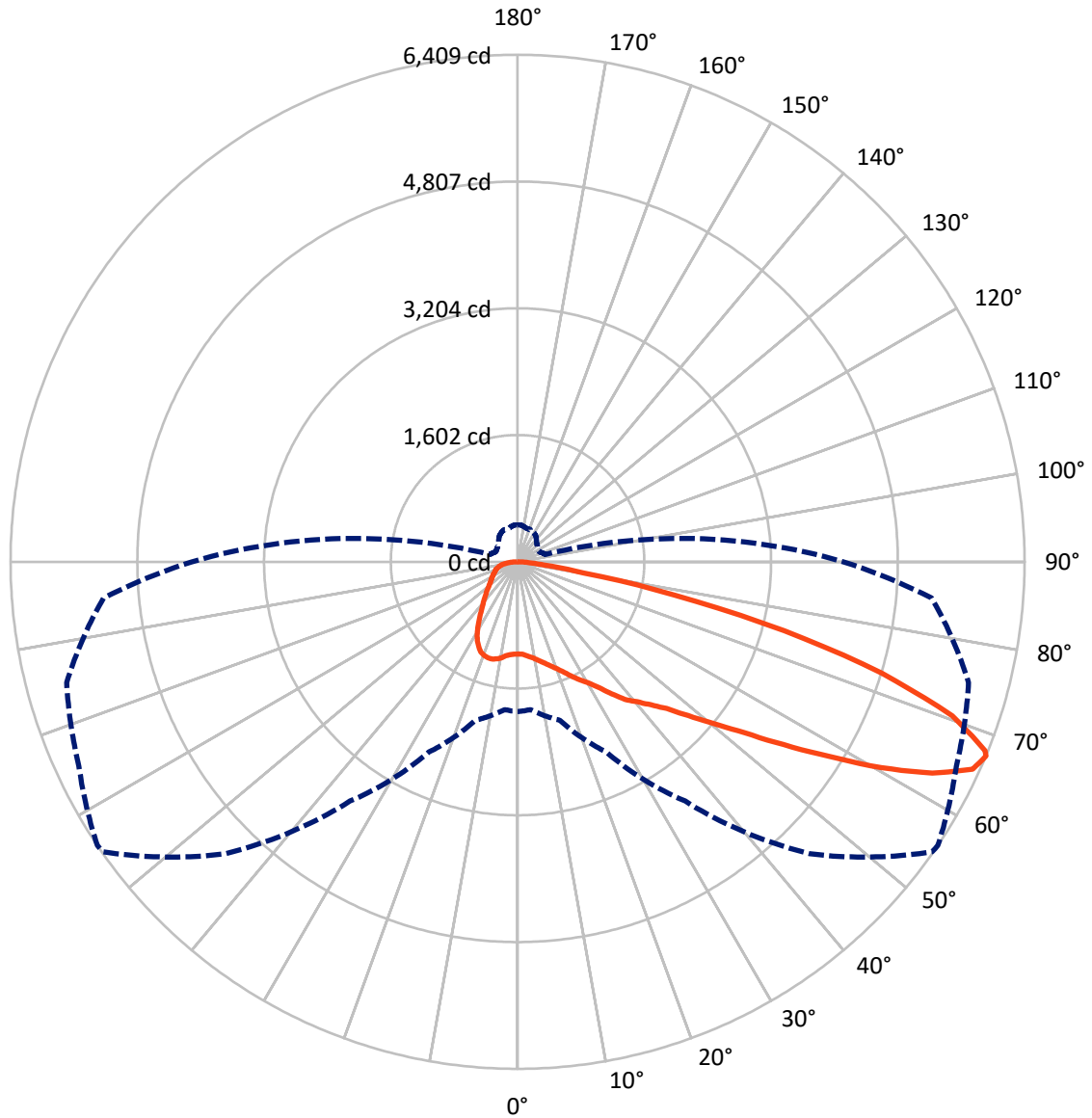
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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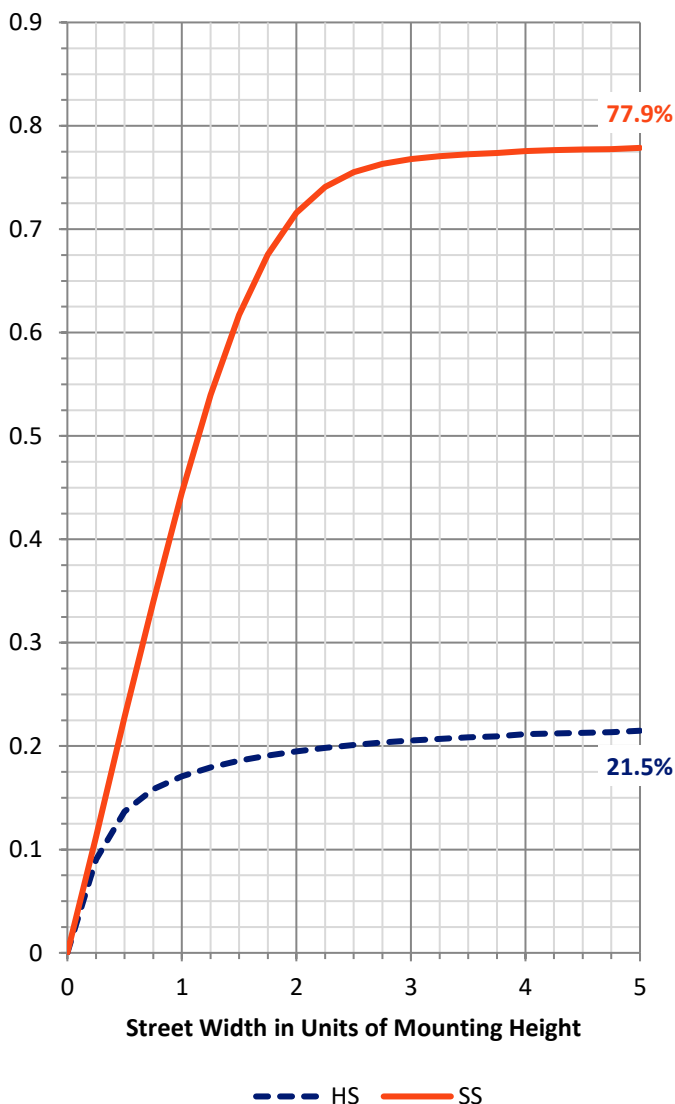
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2064.8	0.0	2064.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	7373.2	0.0	7373.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	9438.0	0.0	9438.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.6	1.2
10°-20°	367.6	3.9
20°-30°	639.8	6.8
30°-40°	938.1	9.9
40°-50°	1372.6	14.5
50°-60°	2145.2	22.7
60°-70°	2549.7	27.0
70°-80°	1161.2	12.3
80°-90°	148.9	1.6
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°	9438.0	100.0
0°-180°	9438.0	100.0

Coefficient of Utilization



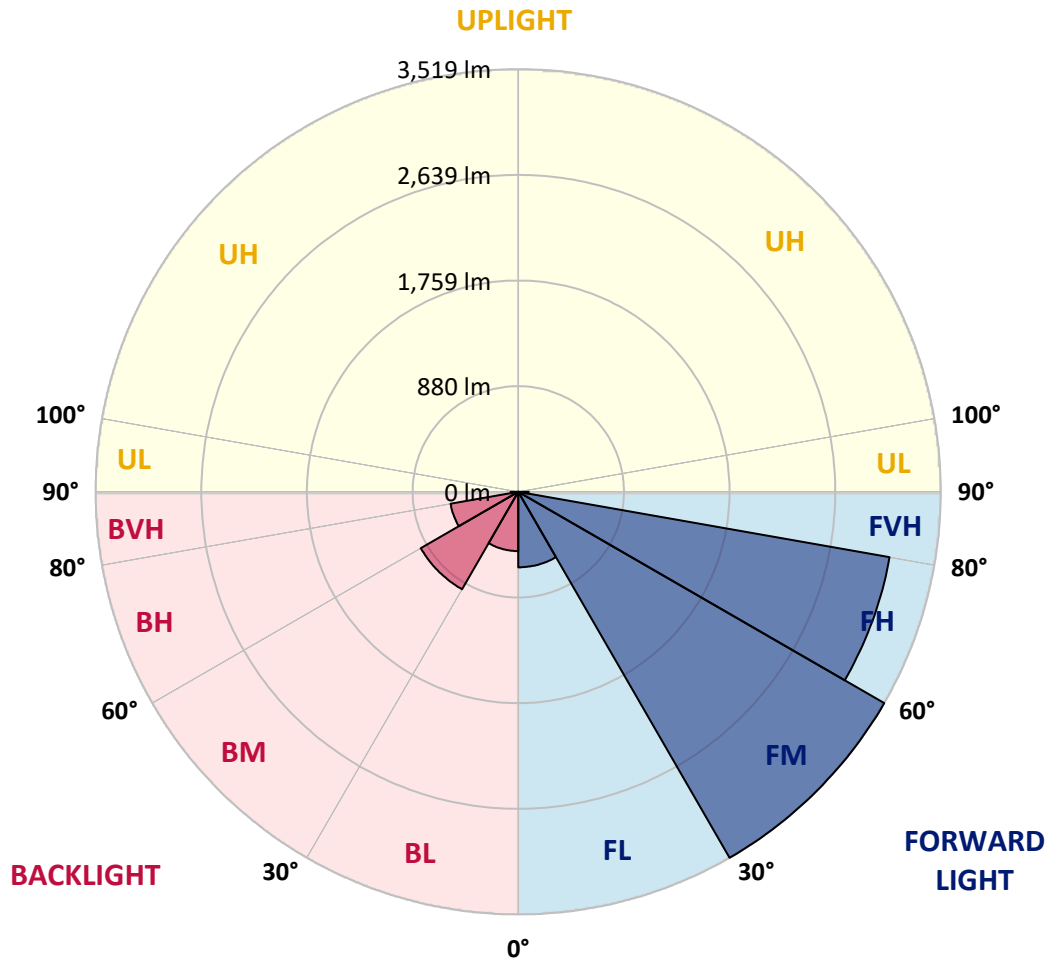
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	628.6	6.7			
FM (30°-60°)	3518.7	37.3			
FH (60°-80°)	3138.9	33.3			G2/5000
FVH (80°-90°)	86.8	0.9			G1/100
BL (0°-30°)	493.5	5.2	B1/500		
BM (30°-60°)	937.3	9.9	B1/1000		
BH (60°-80°)	572.0	6.1	B2/1000		G2/1000
BVH (80°-90°)	62.1	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°	55°	56°	65°	75°	85°
0°	1165.2	1165.2	1165.2	1165.2	1165.2	1165.2	1165.2	1165.2	1165.2	1165.2	1165.2
2.5°	1183.1	1178.0	1175.4	1178.0	1175.4	1170.3	1172.9	1170.3	1167.8	1165.2	1165.2
5°	1198.4	1193.3	1190.8	1193.3	1195.9	1190.8	1190.8	1190.8	1183.1	1180.6	1175.4
7.5°	1208.7	1201.0	1201.0	1206.1	1211.2	1213.8	1218.9	1216.3	1208.7	1203.6	1193.3
10°	1241.9	1231.7	1231.7	1231.7	1236.8	1241.9	1247.0	1249.5	1247.0	1244.4	1236.8
12.5°	1293.0	1282.8	1282.8	1282.8	1282.8	1280.2	1287.9	1290.4	1295.5	1295.5	1282.8
15°	1362.0	1349.2	1344.1	1333.9	1331.3	1326.2	1336.4	1336.4	1344.1	1346.7	1333.9
17.5°	1428.4	1413.1	1408.0	1397.8	1387.5	1374.8	1385.0	1387.5	1402.9	1405.4	1385.0
20°	1497.4	1492.3	1484.6	1469.3	1451.4	1438.6	1448.9	1446.3	1459.1	1464.2	1438.6
22.5°	1586.9	1574.1	1569.0	1548.5	1528.1	1515.3	1515.3	1520.4	1533.2	1533.2	1494.9
25°	1694.2	1676.3	1663.5	1640.5	1615.0	1599.6	1602.2	1607.3	1625.2	1612.4	1553.6
27.5°	1827.0	1809.2	1791.3	1745.3	1719.7	1689.1	1686.5	1691.6	1719.7	1686.5	1609.8
30°	1952.3	1944.6	1929.3	1893.5	1852.6	1801.5	1778.5	1781.1	1801.5	1755.5	1658.4
32.5°	2059.6	2049.4	2041.7	2016.1	1988.0	1926.7	1896.0	1898.6	1896.0	1839.8	1717.2
35°	2187.3	2172.0	2166.9	2143.9	2108.1	2067.2	2054.5	2049.4	2034.0	1957.4	1793.8
37.5°	2310.0	2294.7	2287.0	2274.2	2246.1	2210.3	2210.3	2207.8	2177.1	2069.8	1870.5
40°	2455.7	2437.8	2414.8	2407.1	2384.1	2358.6	2338.1	2325.3	2271.7	2174.6	2018.7
42.5°	2632.0	2621.8	2609.0	2575.8	2540.0	2534.9	2476.1	2471.0	2432.7	2376.4	2228.2
45°	2884.9	2864.5	2846.6	2836.4	2793.0	2747.0	2665.2	2644.8	2644.8	2632.0	2473.5
47.5°	3140.5	3104.7	3130.3	3122.6	3112.4	3061.3	2902.8	2905.4	2900.3	2933.5	2833.8
50°	3311.7	3291.2	3362.8	3396.0	3467.6	3467.6	3240.1	3212.0	3232.5	3329.6	3201.8
52.5°	3444.6	3431.8	3513.6	3643.9	3856.0	3876.4	3641.3	3582.6	3610.7	3748.6	3697.5
55°	3551.9	3539.1	3633.7	3861.1	4200.9	4326.1	4103.8	4078.3	4022.1	4170.3	4185.6
57.5°	3615.8	3587.7	3730.8	4034.8	4482.0	4770.8	4645.6	4637.9	4507.6	4645.6	4714.6
60°	3518.7	3500.8	3697.5	4106.4	4709.4	5189.8	5281.8	5281.8	5049.3	5123.4	5207.7
62.5°	3204.4	3181.4	3388.3	3940.3	4737.6	5532.3	5913.0	5882.3	5570.6	5568.0	5493.9
65°	2606.4	2578.3	2810.8	3393.5	4382.4	5573.1	6339.7	6321.8	5961.5	5859.3	5511.8
67°	1893.5	1875.6	2074.9	2652.4	3692.4	5218.0	6393.4	6408.7	6117.4	5900.2	5253.7
67.5°	1699.3	1696.7	1862.8	2435.2	3490.6	5087.6	6357.6	6373.0	6114.9	5867.0	5151.5
70°	792.1	827.9	983.8	1395.2	2353.4	4006.7	5769.9	5828.7	5787.8	5483.7	4338.9
72.5°	368.0	383.3	452.3	674.6	1264.9	2583.4	4676.2	4816.8	4995.6	4704.3	3436.9
75°	227.4	232.5	270.9	350.1	595.4	1241.9	3329.6	3482.9	3753.8	3539.1	2197.6
77.5°	178.9	181.4	207.0	250.4	347.5	534.1	1827.0	2018.7	2371.3	2092.8	1106.5
80°	132.9	138.0	158.4	194.2	245.3	273.4	776.8	848.4	1144.8	876.5	460.0
82.5°	97.1	102.2	122.7	140.5	171.2	173.8	316.9	334.7	490.6	355.2	199.3
85°	81.8	81.8	94.5	104.8	115.0	97.1	155.9	153.3	189.1	161.0	79.2
87.5°	38.3	40.9	89.4	66.4	56.2	40.9	46.0	48.6	58.8	63.9	30.7
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°	1165.2	1165.2	1165.2	1165.2	1165.2	1165.2	1165.2	1165.2	1165.2	1165.2	1165.2
2.5°	1162.7	1162.7	1162.7	1165.2	1167.8	1167.8	1170.3	1170.3	1172.9	1175.4	1180.6
5°	1172.9	1172.9	1170.3	1172.9	1178.0	1180.6	1185.7	1190.8	1195.9	1201.0	1203.6
7.5°	1193.3	1190.8	1190.8	1190.8	1195.9	1201.0	1208.7	1213.8	1221.4	1224.0	1229.1
10°	1231.7	1226.6	1226.6	1229.1	1231.7	1224.0	1221.4	1218.9	1226.6	1231.7	1236.8
12.5°	1277.7	1272.5	1270.0	1262.3	1252.1	1236.8	1224.0	1213.8	1216.3	1221.4	1229.1
15°	1326.2	1316.0	1310.9	1293.0	1267.4	1234.2	1213.8	1201.0	1201.0	1201.0	1208.7
17.5°	1377.3	1367.1	1346.7	1313.4	1264.9	1218.9	1193.3	1170.3	1160.1	1157.6	1162.7
20°	1425.9	1410.5	1377.3	1326.2	1249.5	1188.2	1155.0	1116.7	1101.3	1091.1	1096.2
22.5°	1471.9	1451.4	1405.4	1326.2	1224.0	1142.2	1083.5	1032.3	1006.8	1001.7	1004.2
25°	1520.4	1494.9	1433.5	1310.9	1167.8	1073.2	991.5	937.8	904.6	899.5	907.1
27.5°	1569.0	1530.6	1456.5	1270.0	1103.9	978.7	891.8	840.7	822.8	812.6	815.1
30°	1609.8	1574.1	1479.5	1213.8	1017.0	868.8	789.6	766.6	753.8	748.7	748.7
32.5°	1663.5	1630.3	1494.9	1147.3	914.8	769.1	718.0	700.2	689.9	677.2	679.7
35°	1729.9	1699.3	1487.2	1063.0	817.7	702.7	661.8	636.3	613.3	595.4	592.8
37.5°	1819.4	1796.4	1448.9	960.8	728.3	654.2	613.3	580.1	546.8	518.7	513.6
40°	1967.6	1913.9	1392.6	848.4	666.9	615.8	567.3	526.4	485.5	454.8	447.2
42.5°	2156.7	2044.3	1316.0	733.4	615.8	574.9	526.4	472.7	434.4	406.3	406.3
45°	2376.4	2184.8	1224.0	646.5	562.2	534.1	475.3	429.3	406.3	388.4	385.9
47.5°	2637.1	2325.3	1106.5	577.5	518.7	498.3	439.5	411.4	396.1	380.7	378.2
50°	2987.2	2514.4	1019.6	518.7	475.3	457.4	429.3	406.3	391.0	380.7	378.2
52.5°	3388.3	2757.2	958.2	472.7	439.5	431.8	426.7	408.9	393.5	385.9	383.3
55°	3822.7	3056.2	899.5	434.4	411.4	421.6	431.8	414.0	403.7	393.5	388.4
57.5°	4231.6	3309.1	804.9	401.2	391.0	408.9	429.3	416.5	403.7	396.1	393.5
60°	4510.1	3436.9	674.6	370.5	370.5	391.0	421.6	403.7	391.0	393.5	393.5
62.5°	4599.6	3388.3	534.1	342.4	350.1	370.5	398.6	388.4	383.3	396.1	396.1
65°	4466.7	3191.6	426.7	319.4	329.6	345.0	385.9	396.1	411.4	439.5	442.1
67°	4119.2	2874.7	360.3	301.5	311.7	337.3	401.2	437.0	437.0	467.6	467.6
67.5°	4017.0	2767.4	350.1	296.4	309.2	337.3	408.9	447.2	437.0	472.7	472.7
70°	3265.7	2177.1	296.4	281.1	299.0	355.2	442.1	449.7	426.7	460.0	457.4
72.5°	2422.4	1574.1	270.9	265.8	278.5	334.7	439.5	431.8	398.6	408.9	401.2
75°	1497.4	912.2	250.4	245.3	253.0	296.4	406.3	393.5	355.2	347.5	339.9
77.5°	723.2	462.5	214.6	222.3	230.0	258.1	357.7	345.0	311.7	293.9	291.3
80°	314.3	237.6	184.0	196.8	199.3	219.8	296.4	281.1	250.4	222.3	222.3
82.5°	155.9	132.9	145.7	163.5	158.4	176.3	232.5	207.0	184.0	153.3	148.2
85°	71.5	76.7	107.3	122.7	107.3	109.9	158.4	145.7	115.0	86.9	89.4
87.5°	25.6	35.8	61.3	74.1	53.7	51.1	84.3	61.3	35.8	10.2	12.8
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)