

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: P573351

Luminaire Tested: **ARCH-S-PA2-60-827-U-T3**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573351  
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-PA2-60-827-U-T3  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 2700K, 625mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6955 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

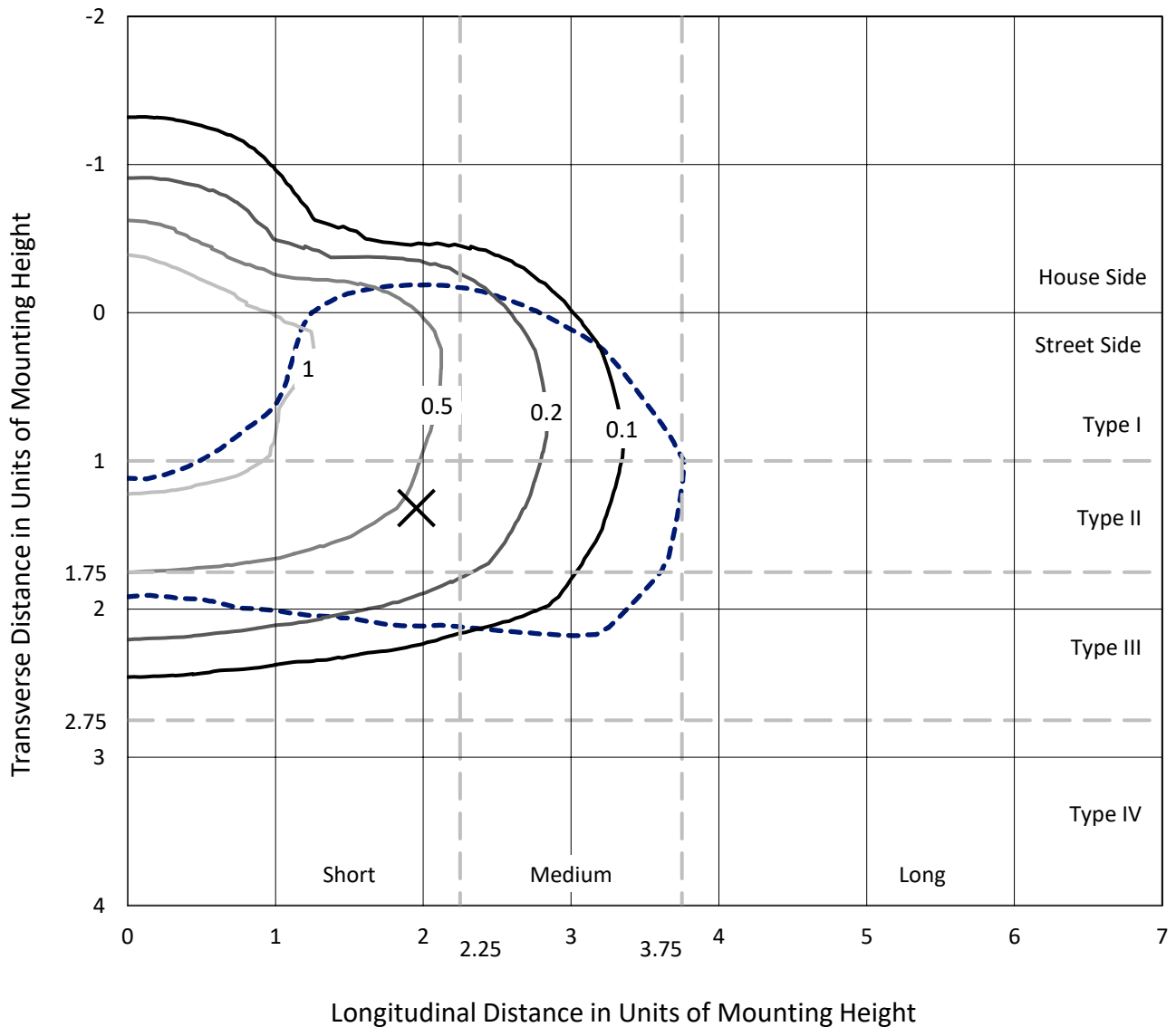
Input Watts (W): 63.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

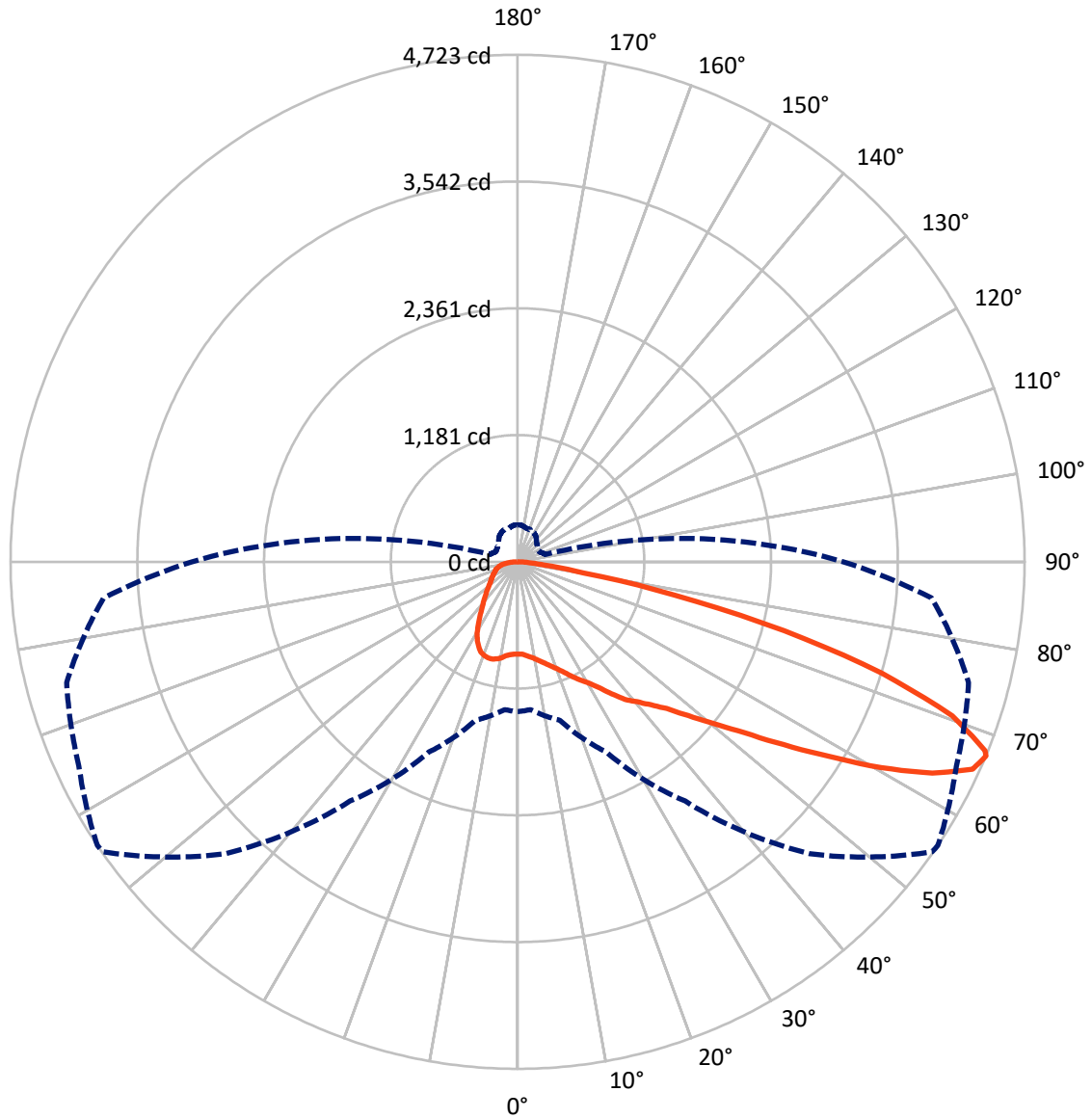
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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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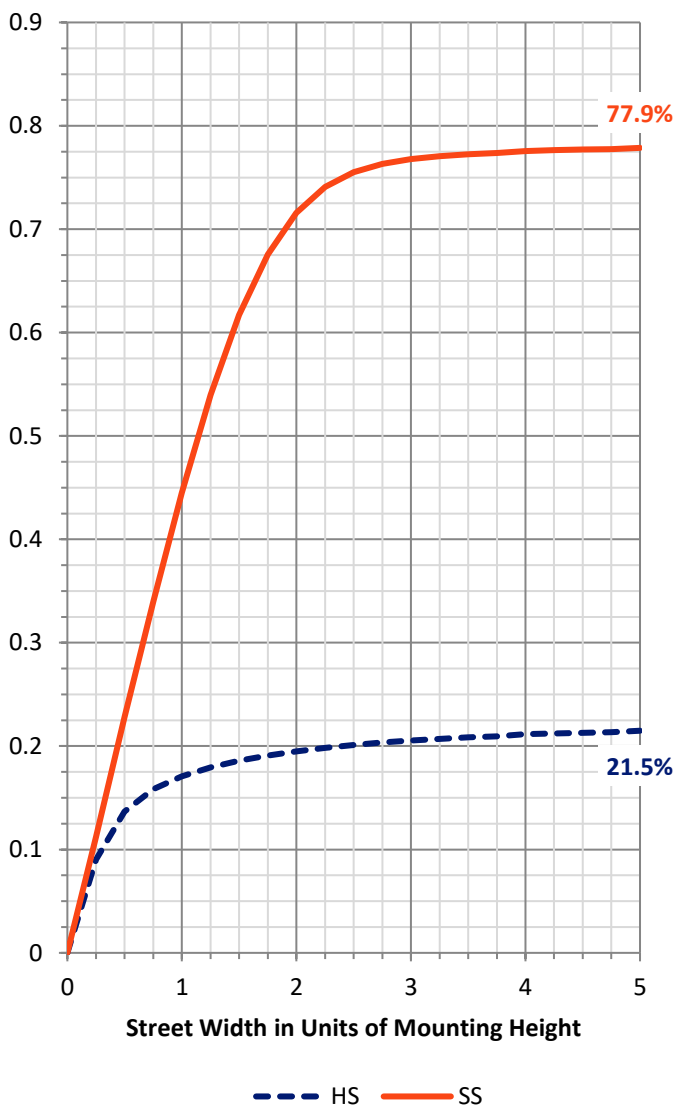
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1521.6	0.0	1521.6
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	5433.4	0.0	5433.4
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	6955.0	0.0	6955.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.5	1.2
10°-20°	270.9	3.9
20°-30°	471.5	6.8
30°-40°	691.3	9.9
40°-50°	1011.5	14.5
50°-60°	1580.9	22.7
60°-70°	1878.9	27.0
70°-80°	855.7	12.3
80°-90°	109.7	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°	6955.0	100.0
0°-180°	6955.0	100.0

**Coefficient of Utilization**

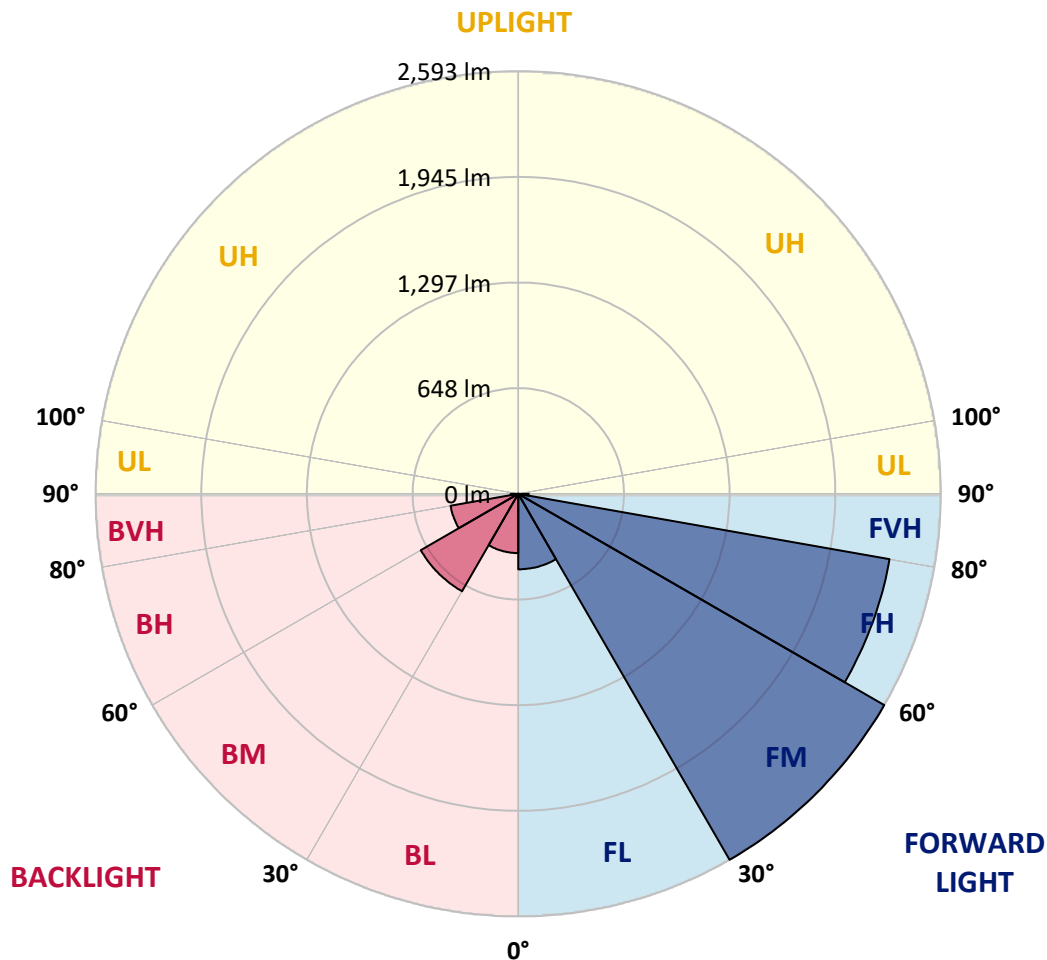


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	463.3	6.7			
FM (30°-60°)	2593.0	37.3			
FH (60°-80°)	2313.1	33.3			G2/5000
FVH (80°-90°)	64.0	0.9			G1/100
BL (0°-30°)	363.6	5.2	B1/500		
BM (30°-60°)	690.7	9.9	B1/1000		
BH (60°-80°)	421.5	6.1	B1/500		G1/500
BVH (80°-90°)	45.7	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	858.7	858.7	858.7	858.7	858.7	858.7	858.7	858.7	858.7	858.7	858.7
2.5°	871.9	868.1	866.2	868.1	866.2	862.4	864.3	862.4	860.6	858.7	858.7
5°	883.1	879.4	877.5	879.4	881.3	877.5	877.5	877.5	871.9	870.0	866.2
7.5°	890.7	885.0	885.0	888.8	892.6	894.4	898.2	896.3	890.7	886.9	879.4
10°	915.2	907.6	907.6	907.6	911.4	915.2	918.9	920.8	918.9	917.0	911.4
12.5°	952.8	945.3	945.3	945.3	945.3	943.4	949.1	950.9	954.7	954.7	945.3
15°	1003.7	994.2	990.5	983.0	981.1	977.3	984.8	984.8	990.5	992.4	983.0
17.5°	1052.6	1041.3	1037.6	1030.0	1022.5	1013.1	1020.6	1022.5	1033.8	1035.7	1020.6
20°	1103.5	1099.7	1094.1	1082.8	1069.6	1060.2	1067.7	1065.8	1075.2	1079.0	1060.2
22.5°	1169.4	1160.0	1156.2	1141.1	1126.1	1116.6	1116.6	1120.4	1129.8	1129.8	1101.6
25°	1248.5	1235.3	1225.9	1208.9	1190.1	1178.8	1180.7	1184.4	1197.6	1188.2	1144.9
27.5°	1346.4	1333.2	1320.0	1286.1	1267.3	1244.7	1242.8	1246.6	1267.3	1242.8	1186.3
30°	1438.6	1433.0	1421.7	1395.3	1365.2	1327.5	1310.6	1312.5	1327.5	1293.7	1222.1
32.5°	1517.7	1510.2	1504.6	1485.7	1465.0	1419.8	1397.2	1399.1	1397.2	1355.8	1265.4
35°	1611.9	1600.6	1596.8	1579.9	1553.5	1523.4	1514.0	1510.2	1498.9	1442.4	1321.9
37.5°	1702.3	1691.0	1685.3	1675.9	1655.2	1628.8	1628.8	1627.0	1604.4	1525.3	1378.4
40°	1809.6	1796.4	1779.5	1773.8	1756.9	1738.1	1723.0	1713.6	1674.0	1602.5	1487.6
42.5°	1939.5	1932.0	1922.6	1898.1	1871.7	1868.0	1824.7	1820.9	1792.7	1751.2	1642.0
45°	2126.0	2110.9	2097.7	2090.2	2058.2	2024.3	1964.0	1949.0	1949.0	1939.5	1822.8
47.5°	2314.3	2287.9	2306.7	2301.1	2293.6	2255.9	2139.1	2141.0	2137.3	2161.7	2088.3
50°	2440.4	2425.4	2478.1	2502.6	2555.3	2555.3	2387.7	2367.0	2382.1	2453.6	2359.5
52.5°	2538.3	2528.9	2589.2	2685.2	2841.5	2856.6	2683.3	2640.0	2660.7	2762.4	2724.8
55°	2617.4	2608.0	2677.7	2845.3	3095.7	3188.0	3024.2	3005.3	2963.9	3073.1	3084.4
57.5°	2664.5	2643.8	2749.3	2973.3	3302.9	3515.7	3423.4	3417.7	3321.7	3423.4	3474.2
60°	2593.0	2579.8	2724.8	3026.1	3470.5	3824.5	3892.3	3892.3	3720.9	3775.5	3837.7
62.5°	2361.3	2344.4	2496.9	2903.7	3491.2	4076.8	4357.4	4334.8	4105.0	4103.2	4048.6
65°	1920.7	1900.0	2071.4	2500.7	3229.4	4106.9	4671.8	4658.7	4393.2	4317.8	4061.7
67°	1395.3	1382.2	1529.0	1954.6	2721.0	3845.2	4711.4	4722.7	4508.0	4348.0	3871.5
67.5°	1252.2	1250.3	1372.7	1794.5	2572.2	3749.1	4685.0	4696.3	4506.1	4323.5	3796.2
70°	583.7	610.1	725.0	1028.1	1734.3	2952.6	4251.9	4295.2	4265.1	4041.0	3197.4
72.5°	271.2	282.5	333.3	497.1	932.1	1903.8	3446.0	3549.5	3681.4	3466.7	2532.7
75°	167.6	171.4	199.6	258.0	438.8	915.2	2453.6	2566.6	2766.2	2608.0	1619.4
77.5°	131.8	133.7	152.5	184.5	256.1	393.6	1346.4	1487.6	1747.5	1542.2	815.4
80°	97.9	101.7	116.7	143.1	180.8	201.5	572.4	625.2	843.6	645.9	338.9
82.5°	71.6	75.3	90.4	103.6	126.2	128.0	233.5	246.7	361.5	261.7	146.9
85°	60.3	60.3	69.7	77.2	84.7	71.6	114.9	113.0	139.3	118.6	58.4
87.5°	28.2	30.1	65.9	49.0	41.4	30.1	33.9	35.8	43.3	47.1	22.6
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°	858.7	858.7	858.7	858.7	858.7	858.7	858.7	858.7	858.7	858.7	858.7
2.5°	856.8	856.8	856.8	858.7	860.6	860.6	862.4	862.4	864.3	866.2	870.0
5°	864.3	864.3	862.4	864.3	868.1	870.0	873.7	877.5	881.3	885.0	886.9
7.5°	879.4	877.5	877.5	877.5	881.3	885.0	890.7	894.4	900.1	902.0	905.7
10°	907.6	903.9	903.9	905.7	907.6	902.0	900.1	898.2	903.9	907.6	911.4
12.5°	941.5	937.8	935.9	930.2	922.7	911.4	902.0	894.4	896.3	900.1	905.7
15°	977.3	969.8	966.0	952.8	934.0	909.5	894.4	885.0	885.0	885.0	890.7
17.5°	1015.0	1007.4	992.4	967.9	932.1	898.2	879.4	862.4	854.9	853.0	856.8
20°	1050.7	1039.4	1015.0	977.3	920.8	875.6	851.1	822.9	811.6	804.1	807.8
22.5°	1084.6	1069.6	1035.7	977.3	902.0	841.7	798.4	760.8	741.9	738.2	740.0
25°	1120.4	1101.6	1056.4	966.0	860.6	790.9	730.6	691.1	666.6	662.8	668.5
27.5°	1156.2	1127.9	1073.3	935.9	813.5	721.2	657.2	619.5	606.3	598.8	600.7
30°	1186.3	1160.0	1090.3	894.4	749.5	640.2	581.9	564.9	555.5	551.7	551.7
32.5°	1225.9	1201.4	1101.6	845.5	674.1	566.8	529.1	516.0	508.4	499.0	500.9
35°	1274.8	1252.2	1095.9	783.3	602.6	517.8	487.7	468.9	451.9	438.8	436.9
37.5°	1340.7	1323.8	1067.7	708.0	536.7	482.1	451.9	427.5	403.0	382.3	378.5
40°	1449.9	1410.4	1026.3	625.2	491.5	453.8	418.0	387.9	357.8	335.2	329.5
42.5°	1589.3	1506.4	969.8	540.4	453.8	423.7	387.9	348.4	320.1	299.4	299.4
45°	1751.2	1610.0	902.0	476.4	414.3	393.6	350.2	316.4	299.4	286.2	284.3
47.5°	1943.3	1713.6	815.4	425.6	382.3	367.2	323.9	303.2	291.9	280.6	278.7
50°	2201.3	1852.9	751.3	382.3	350.2	337.1	316.4	299.4	288.1	280.6	278.7
52.5°	2496.9	2031.8	706.1	348.4	323.9	318.2	314.5	301.3	290.0	284.3	282.5
55°	2817.0	2252.1	662.8	320.1	303.2	310.7	318.2	305.1	297.5	290.0	286.2
57.5°	3118.3	2438.5	593.2	295.6	288.1	301.3	316.4	306.9	297.5	291.9	290.0
60°	3323.6	2532.7	497.1	273.0	273.0	288.1	310.7	297.5	288.1	290.0	290.0
62.5°	3389.5	2496.9	393.6	252.3	258.0	273.0	293.8	286.2	282.5	291.9	291.9
65°	3291.6	2351.9	314.5	235.4	242.9	254.2	284.3	291.9	303.2	323.9	325.8
67°	3035.5	2118.4	265.5	222.2	229.7	248.6	295.6	322.0	322.0	344.6	344.6
67.5°	2960.2	2039.3	258.0	218.4	227.8	248.6	301.3	329.5	322.0	348.4	348.4
70°	2406.5	1604.4	218.4	207.1	220.3	261.7	325.8	331.4	314.5	338.9	337.1
72.5°	1785.1	1160.0	199.6	195.8	205.3	246.7	323.9	318.2	293.8	301.3	295.6
75°	1103.5	672.2	184.5	180.8	186.4	218.4	299.4	290.0	261.7	256.1	250.4
77.5°	532.9	340.8	158.2	163.8	169.5	190.2	263.6	254.2	229.7	216.6	214.7
80°	231.6	175.1	135.6	145.0	146.9	161.9	218.4	207.1	184.5	163.8	163.8
82.5°	114.9	97.9	107.3	120.5	116.7	129.9	171.4	152.5	135.6	113.0	109.2
85°	52.7	56.5	79.1	90.4	79.1	81.0	116.7	107.3	84.7	64.0	65.9
87.5°	18.8	26.4	45.2	54.6	39.5	37.7	62.1	45.2	26.4	7.5	9.4
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)