

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: P836667

Luminaire Tested: **ARCH3-60-722-U-T2R**

Issue Date: 5/16/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P836667  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH3-60-722-U-T2R  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2200K, 505mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

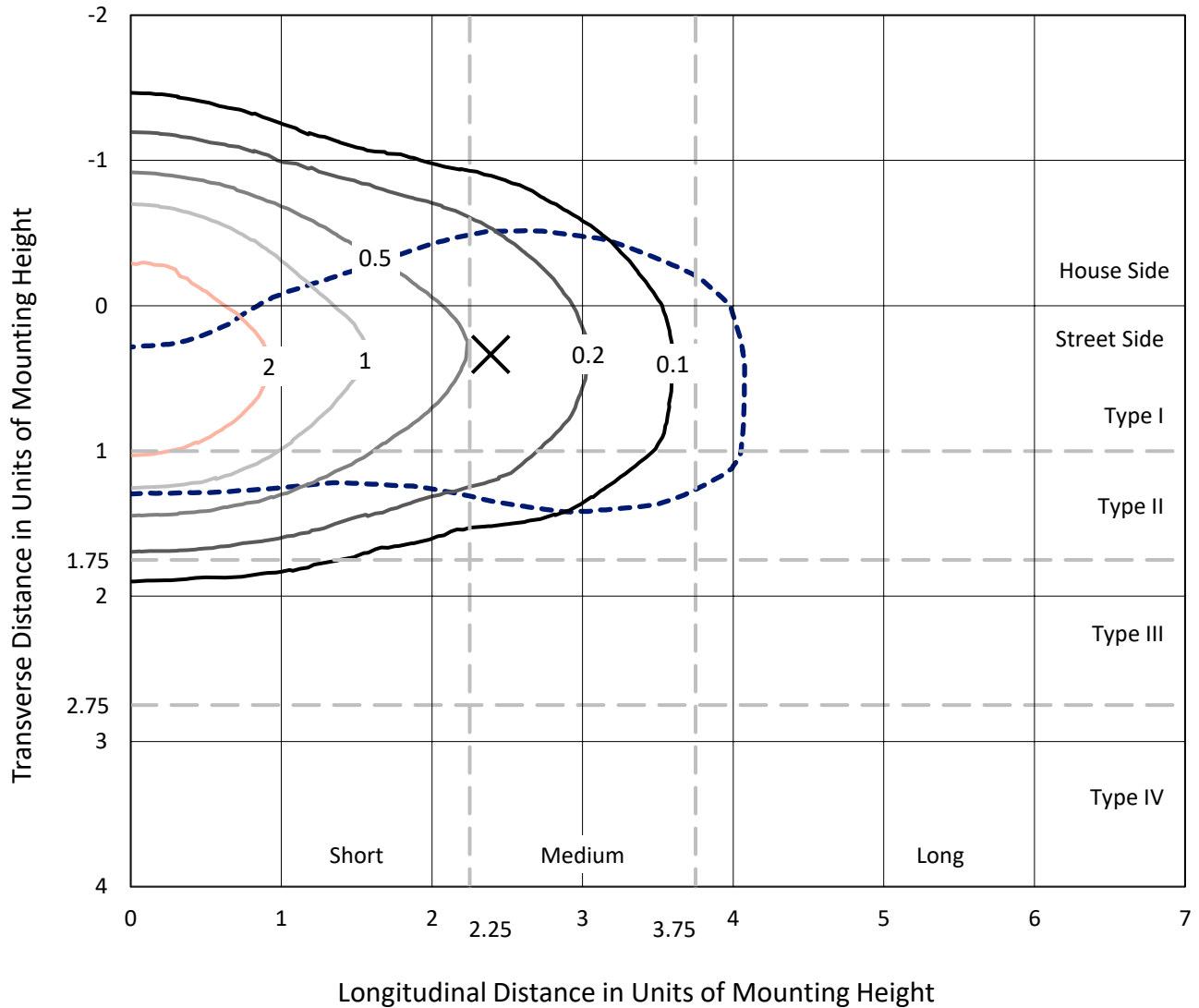
Lumens per Lamp: N/A  
Luminaire Lumens: 9159 lumens  
Efficiency: N/A  
Efficacy: 144.9 lumens/watt  
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 63.2  
Input Voltage (V): NR  
Input Current (Ain): 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

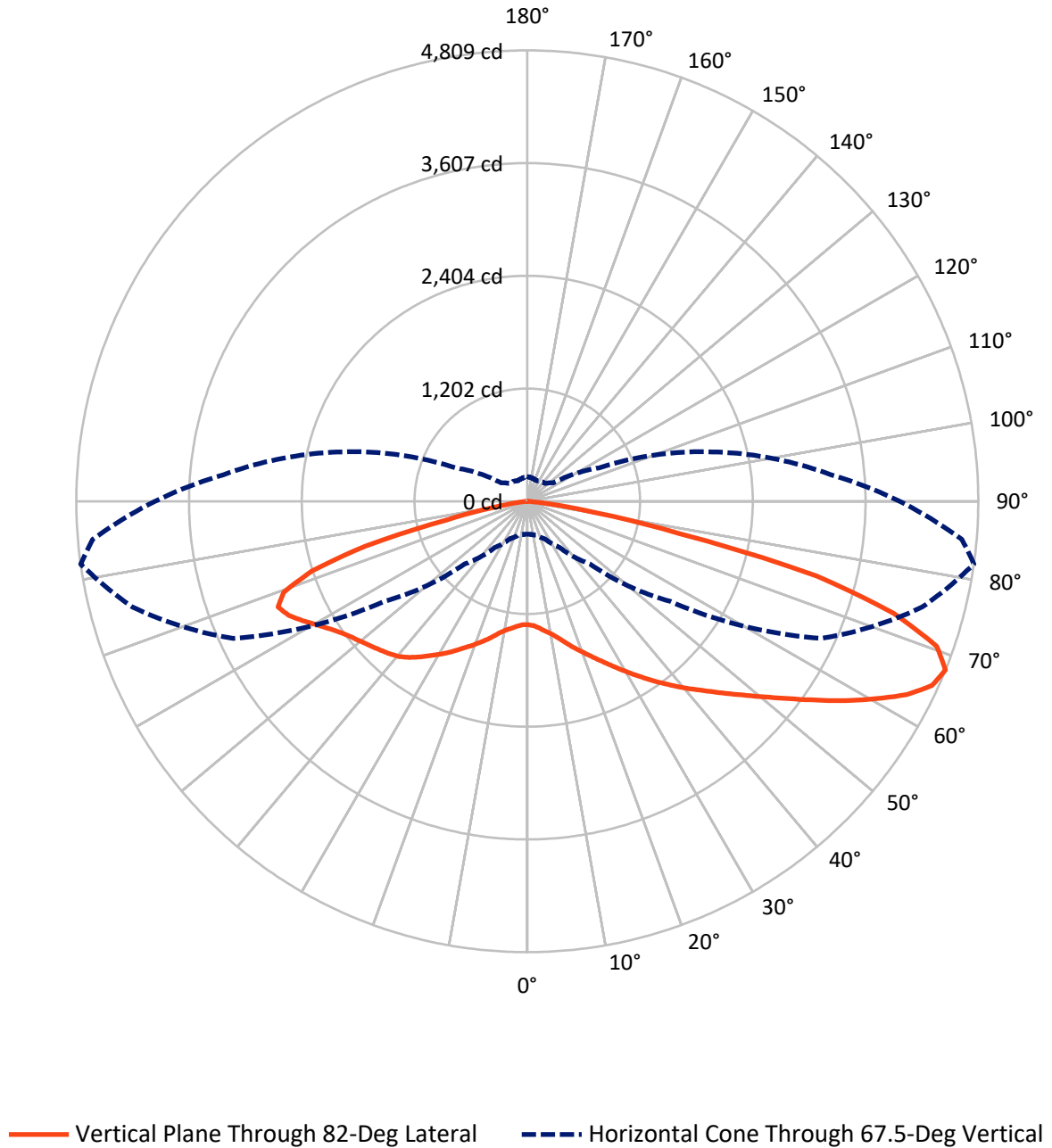
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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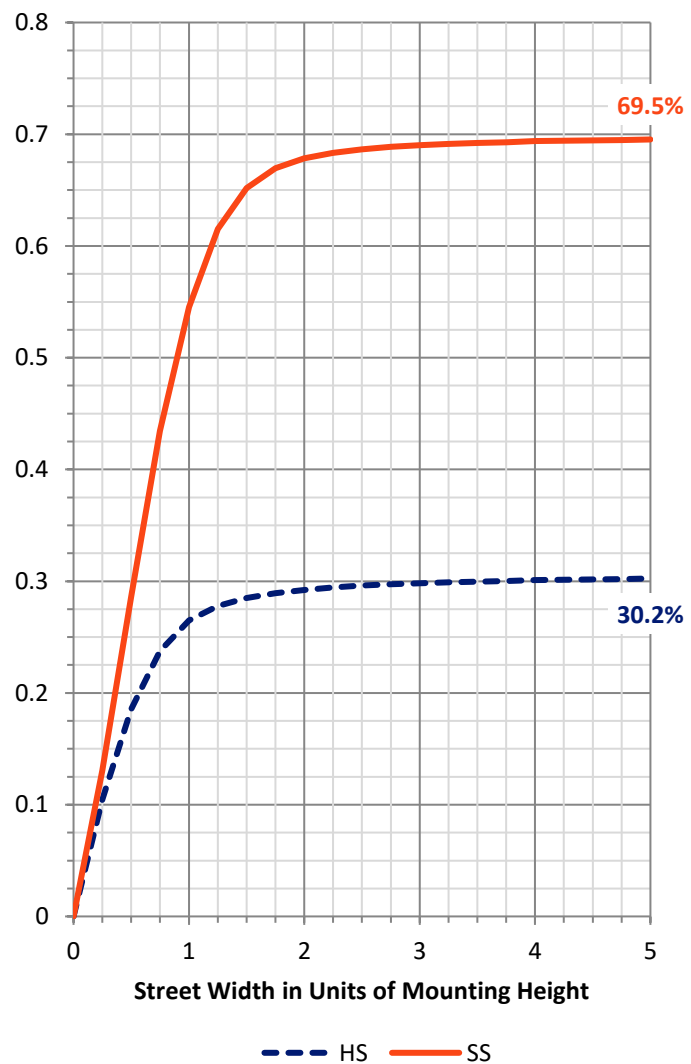
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2789.3	0.0	2789.3
	% Fixture	30.5	0.0	30.5
<b>Street Side</b>	Lumens	6369.7	0.0	6369.7
	% Fixture	69.5	0.0	69.5
<b>Total</b>	Lumens	9159.0	0.0	9159.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.1	1.5
10°-20°	490.1	5.4
20°-30°	985.0	10.8
30°-40°	1547.3	16.9
40°-50°	1884.9	20.6
50°-60°	1781.0	19.4
60°-70°	1470.7	16.1
70°-80°	800.9	8.7
80°-90°	63.0	0.7
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°	9159.0	100.0
0°-180°	9159.0	100.0

**Coefficient of Utilization**



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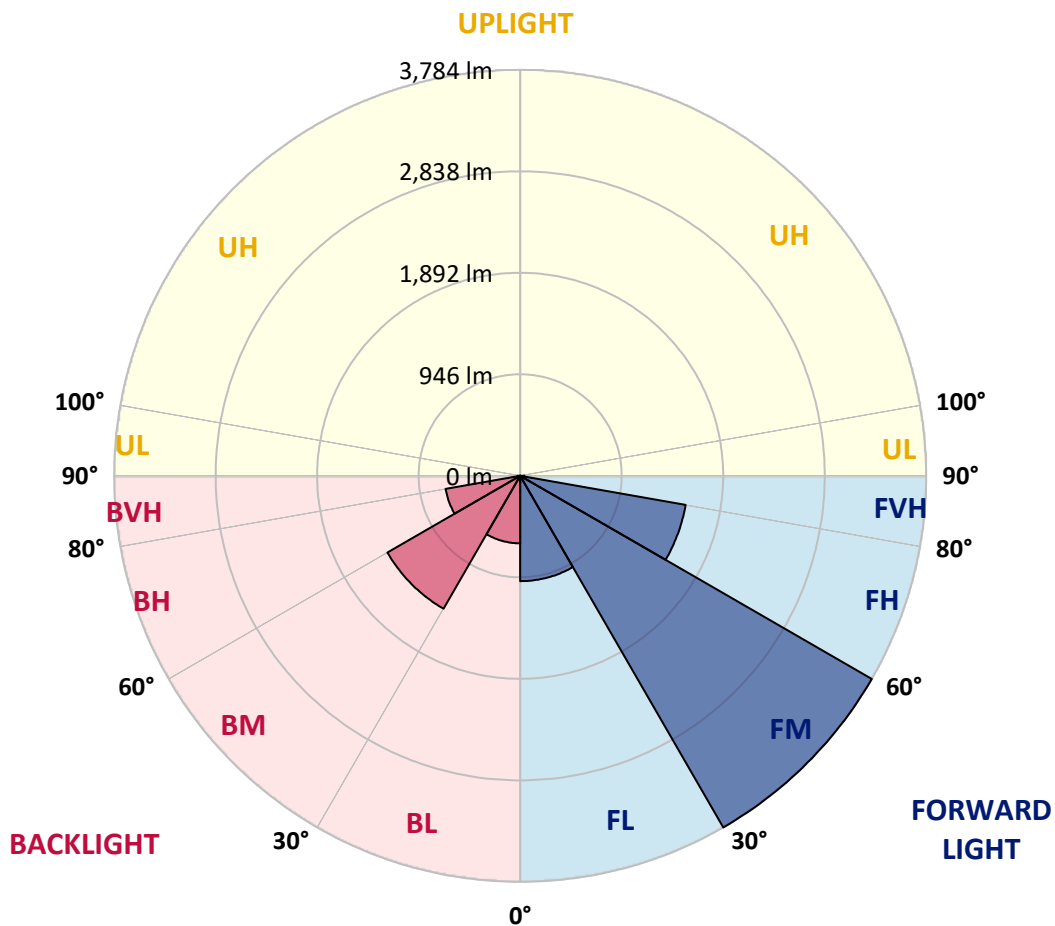
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	982.2	10.7			
FM (30°-60°)	3784.0	41.3			
FH (60°-80°)	1565.6	17.1			G1/1800
FVH (80°-90°)	38.0	0.4			G1/100
BL (0°-30°)	629.0	6.9	B2/1000		
BM (30°-60°)	1429.3	15.6	B2/2500		
BH (60°-80°)	706.0	7.7	B2/1000		G2/1000
BVH (80°-90°)	25.0	0.3			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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1316.6	1316.6	1316.6	1316.6	1316.6	1316.6	1316.6	1316.6	1316.6	1316.6	1316.6
2.5°	1376.4	1376.4	1387.1	1387.1	1377.8	1363.1	1359.2	1343.2	1328.6	1328.6	1329.9
5°	1508.1	1506.8	1514.8	1504.1	1481.5	1452.3	1432.3	1397.7	1368.5	1359.2	1357.8
7.5°	1669.0	1667.7	1671.7	1654.4	1611.8	1564.0	1524.1	1468.2	1420.3	1400.4	1395.1
10°	1848.6	1847.2	1843.2	1814.0	1756.8	1682.3	1622.5	1545.3	1473.5	1441.6	1435.0
12.5°	2054.7	2052.0	2042.7	2000.2	1921.7	1826.0	1739.5	1639.8	1544.0	1500.1	1485.5
15°	2284.8	2280.8	2263.5	2211.6	2106.6	1985.5	1873.8	1746.2	1629.1	1571.9	1552.0
17.5°	2526.8	2526.8	2500.2	2423.1	2306.0	2155.8	2017.5	1855.2	1718.2	1647.7	1623.8
20°	2772.8	2771.5	2738.3	2645.2	2506.9	2334.0	2158.4	1980.2	1810.0	1724.9	1695.6
22.5°	3032.2	3029.5	2988.3	2881.9	2717.0	2521.5	2316.7	2103.9	1911.1	1808.7	1771.4
25°	3330.1	3326.1	3275.5	3145.2	2949.7	2729.0	2494.9	2248.9	2026.8	1901.8	1857.9
27.5°	3646.6	3641.3	3581.4	3429.8	3215.7	2949.7	2691.7	2416.4	2154.4	2005.5	1956.3
30°	3928.5	3924.5	3859.4	3703.8	3457.7	3169.2	2879.2	2584.0	2288.8	2115.9	2054.7
32.5°	4141.3	4141.3	4082.8	3929.9	3674.5	3379.3	3068.1	2742.3	2428.4	2234.2	2162.4
35°	4270.3	4274.3	4223.8	4101.4	3860.7	3577.4	3263.6	2928.4	2577.3	2360.6	2283.4
37.5°	4288.9	4302.2	4273.0	4190.5	3989.7	3742.3	3455.1	3108.0	2731.6	2488.2	2401.8
40°	4202.5	4211.8	4213.1	4181.2	4042.9	3860.7	3624.0	3298.2	2895.2	2622.6	2522.8
42.5°	4029.6	4036.2	4048.2	4057.5	4004.3	3912.6	3753.0	3475.0	3069.4	2759.5	2642.5
45°	3806.2	3804.8	3824.8	3864.7	3862.0	3883.3	3824.8	3635.9	3250.3	2915.1	2775.5
47.5°	3472.4	3465.7	3536.2	3626.6	3671.9	3771.6	3826.1	3762.3	3447.1	3086.7	2927.1
50°	2949.7	2943.1	3097.3	3310.1	3443.1	3594.7	3753.0	3838.1	3653.2	3279.5	3092.0
52.5°	2314.0	2307.4	2502.9	2875.2	3165.2	3385.9	3605.4	3855.4	3848.7	3495.0	3278.2
55°	1720.9	1715.6	1905.7	2308.7	2778.2	3143.9	3424.5	3810.2	4032.3	3742.3	3504.3
57.5°	1212.9	1210.2	1375.1	1708.9	2280.8	2848.6	3250.3	3722.4	4201.2	4011.0	3759.6
60°	851.1	847.1	966.8	1224.8	1724.9	2403.1	3077.4	3605.4	4327.5	4275.6	4030.9
62.5°	573.2	570.5	655.6	871.1	1224.8	1849.9	2815.4	3526.9	4399.3	4541.6	4304.9
65°	434.9	433.5	472.1	590.5	867.1	1328.6	2399.1	3517.6	4408.6	4741.1	4537.6
67.5°	351.1	352.4	373.7	441.5	599.8	944.2	1860.5	3459.1	4359.4	4808.9	4650.7
70°	287.3	287.3	296.6	341.8	442.9	637.0	1299.3	3193.1	4222.4	4632.0	4516.3
72.5°	219.4	220.8	250.0	276.6	333.8	446.8	832.5	2642.5	3899.3	4084.1	3996.4
75°	174.2	172.9	190.2	227.4	259.3	319.2	510.7	1895.1	3318.1	3191.8	3135.9
77.5°	125.0	123.7	137.0	168.9	196.8	226.1	304.5	956.2	1804.7	1658.4	1617.2
80°	85.1	82.5	94.4	117.0	130.3	133.0	148.9	367.1	787.3	742.1	732.8
82.5°	43.9	43.9	50.5	66.5	67.8	69.2	66.5	118.4	260.7	243.4	232.7
85°	17.3	17.3	18.6	22.6	22.6	23.9	23.9	30.6	27.9	26.6	25.3
87.5°	1.3	1.3	2.7	2.7	4.0	4.0	4.0	5.3	6.6	6.6	6.6
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°	1316.6	1316.6	1316.6	1316.6	1316.6	1316.6	1316.6	1316.6	1316.6	1316.6	1316.6
2.5°	1327.2	1321.9	1304.6	1300.6	1298.0	1294.0	1295.3	1286.0	1282.0	1283.4	1278.0
5°	1351.2	1341.9	1320.6	1311.3	1308.6	1304.6	1308.6	1302.0	1295.3	1298.0	1295.3
7.5°	1384.4	1371.1	1344.5	1335.2	1333.9	1329.9	1335.2	1329.9	1324.6	1327.2	1321.9
10°	1419.0	1401.7	1372.5	1363.1	1363.1	1361.8	1367.1	1359.2	1353.8	1355.2	1352.5
12.5°	1469.5	1446.9	1415.0	1407.0	1403.0	1407.0	1408.4	1397.7	1388.4	1389.7	1385.8
15°	1530.7	1505.4	1470.9	1458.9	1456.2	1454.9	1449.6	1436.3	1424.3	1423.0	1419.0
17.5°	1597.2	1565.3	1524.1	1512.1	1500.1	1496.1	1482.8	1465.6	1446.9	1446.9	1441.6
20°	1661.0	1625.1	1575.9	1558.6	1541.4	1525.4	1502.8	1474.9	1450.9	1446.9	1441.6
22.5°	1730.2	1687.6	1630.5	1605.2	1574.6	1542.7	1504.1	1466.9	1436.3	1429.6	1425.7
25°	1807.3	1754.1	1686.3	1649.1	1599.9	1550.7	1493.5	1445.6	1409.7	1399.1	1396.4
27.5°	1892.4	1828.6	1746.2	1691.6	1619.8	1542.7	1469.5	1412.4	1368.5	1355.2	1351.2
30°	1978.9	1903.1	1800.7	1720.9	1619.8	1517.4	1425.7	1359.2	1308.6	1290.0	1287.3
32.5°	2065.3	1980.2	1849.9	1736.9	1603.9	1474.9	1368.5	1290.0	1232.8	1210.2	1215.5
35°	2169.1	2065.3	1895.1	1743.5	1577.3	1423.0	1303.3	1211.5	1153.0	1133.1	1137.1
37.5°	2276.8	2150.4	1931.0	1738.2	1540.0	1364.5	1230.2	1141.1	1067.9	1033.3	1037.3
40°	2369.9	2227.6	1956.3	1719.6	1492.1	1298.0	1158.3	1041.3	940.2	907.0	903.0
42.5°	2457.7	2284.8	1969.6	1691.6	1437.6	1220.8	1055.9	905.7	804.6	763.4	764.7
45°	2549.4	2340.6	1964.3	1654.4	1369.8	1130.4	924.3	772.7	683.6	646.3	647.7
47.5°	2654.5	2400.5	1958.9	1614.5	1287.3	1013.4	797.9	655.6	578.5	551.9	549.2
50°	2766.2	2467.0	1952.3	1565.3	1195.6	883.1	672.9	546.6	481.4	464.1	460.1
52.5°	2892.5	2538.8	1948.3	1506.8	1085.2	744.7	561.2	450.8	406.9	395.0	393.7
55°	3044.1	2622.6	1953.6	1436.3	952.2	614.4	466.8	388.3	359.1	352.4	351.1
57.5°	3229.0	2730.3	1969.6	1353.8	812.6	501.4	397.6	349.8	331.1	325.8	325.8
60°	3429.8	2852.6	1998.8	1260.7	672.9	413.6	352.4	319.2	311.2	317.8	317.8
62.5°	3646.6	2996.3	2050.7	1147.7	542.6	349.8	316.5	293.9	288.6	301.9	303.2
65°	3847.4	3135.9	2084.0	1012.1	430.9	303.2	288.6	268.6	271.3	284.6	283.3
67.5°	3971.1	3251.6	2037.4	841.8	341.8	268.6	259.3	242.0	248.7	259.3	260.7
70°	3895.3	3186.4	1807.3	635.7	267.3	234.1	227.4	216.8	222.1	235.4	240.7
72.5°	3524.2	2854.0	1405.7	429.6	215.4	196.8	199.5	194.2	200.8	212.8	224.8
75°	2860.6	2157.1	942.9	275.3	170.2	167.6	171.6	167.6	170.2	182.2	188.8
77.5°	1493.5	1052.0	469.5	171.6	126.3	130.3	137.0	138.3	146.3	148.9	151.6
80°	696.9	473.4	195.5	95.8	83.8	91.8	105.1	106.4	109.1	113.0	114.4
82.5°	227.4	142.3	90.4	51.9	47.9	51.9	67.8	81.1	82.5	90.4	90.4
85°	23.9	14.6	19.9	21.3	18.6	22.6	30.6	29.3	13.3	8.0	8.0
87.5°	6.6	5.3	6.6	6.6	5.3	5.3	4.0	1.3	0.0	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)