

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: P799875

Luminaire Tested: **ARCH2-60-727-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-60-727-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 485mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8625 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

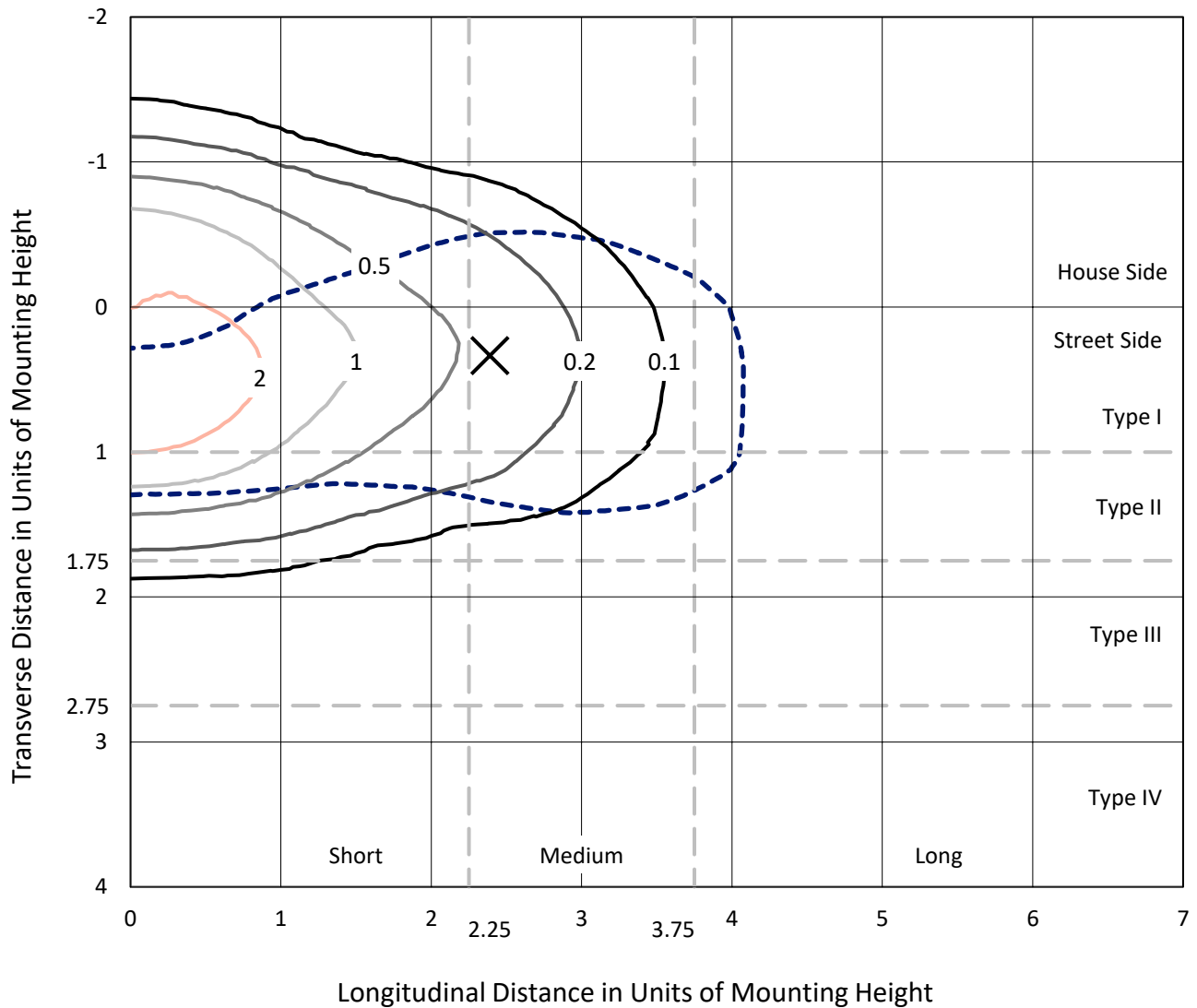
Input Watts (W): 63.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

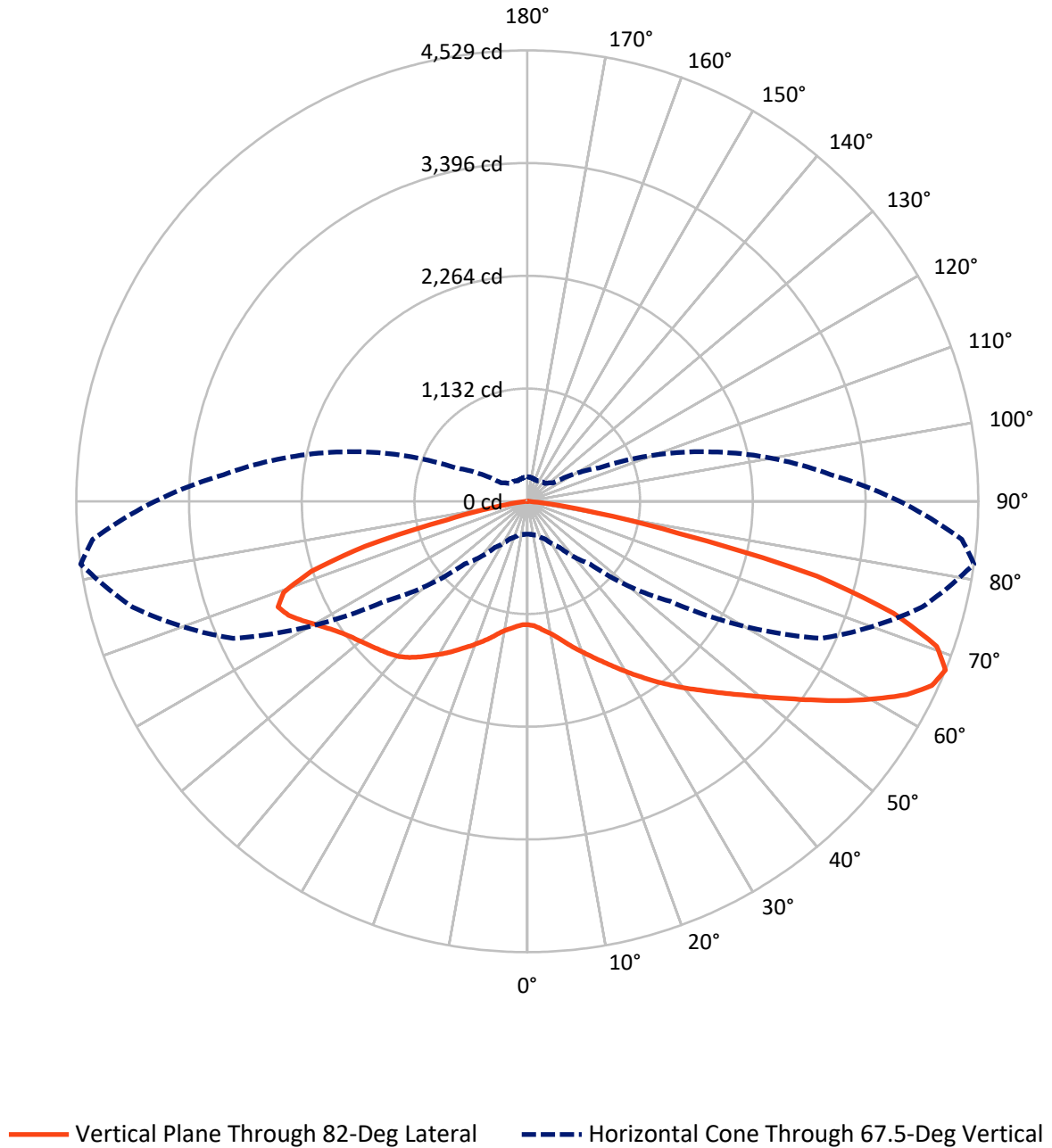
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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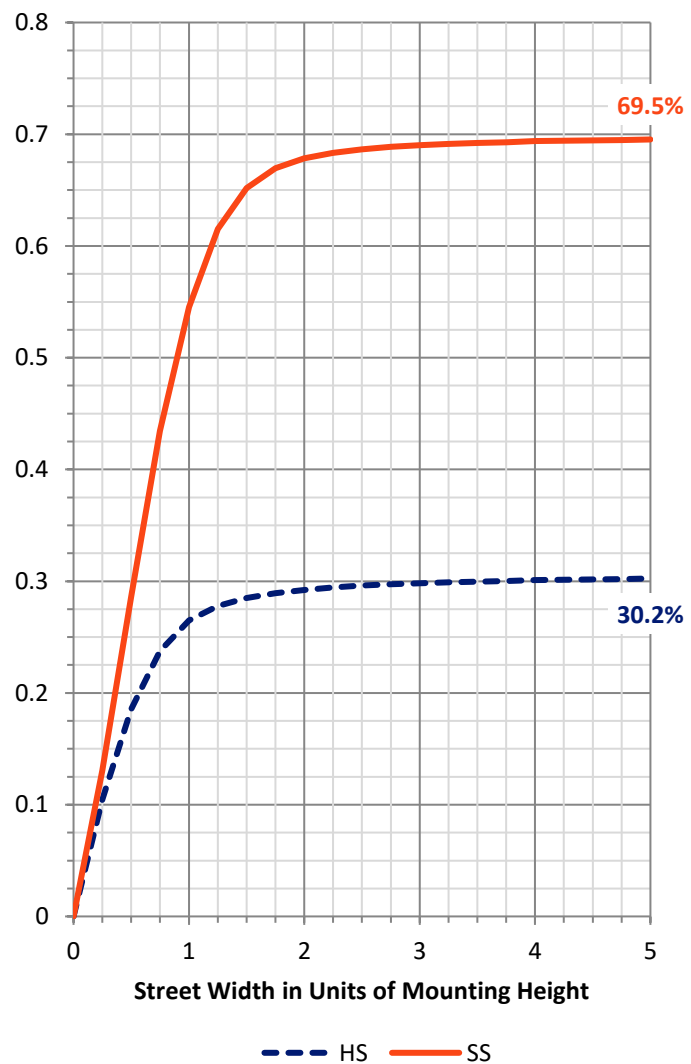
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2626.7	0.0	2626.7
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	5998.3	0.0	5998.3
	% Fixture	69.5	0.0	69.5
Total	Lumens	8625.0	0.0	8625.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.1	1.5
10°-20°	461.5	5.4
20°-30°	927.6	10.8
30°-40°	1457.1	16.9
40°-50°	1775.0	20.6
50°-60°	1677.2	19.4
60°-70°	1385.0	16.1
70°-80°	754.2	8.7
80°-90°	59.3	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°	8625.0	100.0
0°-180°	8625.0	100.0

Coefficient of Utilization



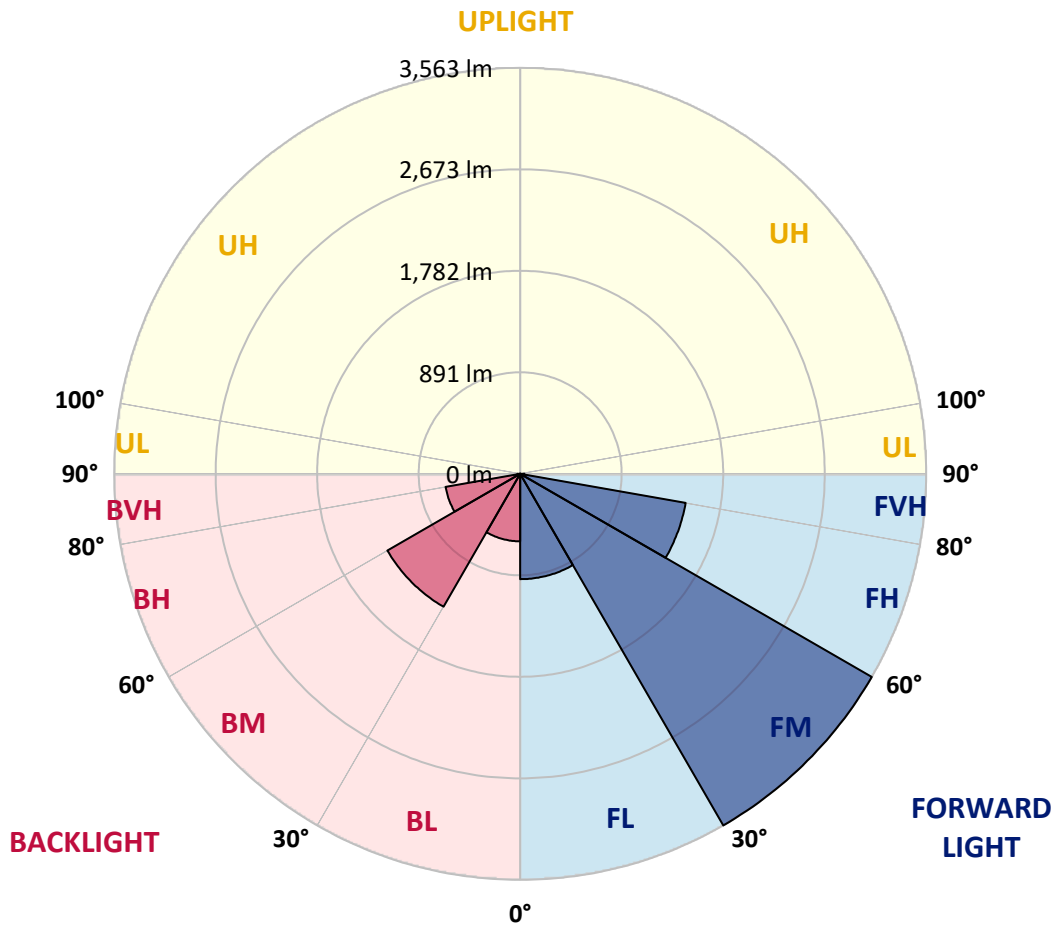
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	924.9	10.7			
FM (30°-60°)	3563.4	41.3			
FH (60°-80°)	1474.3	17.1			G1/1800
FVH (80°-90°)	35.7	0.4			G1/100
BL (0°-30°)	592.3	6.9	B2/1000		
BM (30°-60°)	1346.0	15.6	B2/2500		
BH (60°-80°)	664.8	7.7	B2/1000		G2/1000
BVH (80°-90°)	23.6	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°	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8
2.5°	1296.2	1296.2	1306.2	1306.2	1297.4	1283.7	1279.9	1264.9	1251.1	1251.1	1252.4
5°	1420.2	1418.9	1426.4	1416.4	1395.1	1367.6	1348.8	1316.2	1288.7	1279.9	1278.7
7.5°	1571.7	1570.5	1574.2	1557.9	1517.9	1472.8	1435.2	1382.6	1337.5	1318.7	1313.7
10°	1740.8	1739.5	1735.8	1708.2	1654.4	1584.2	1527.9	1455.2	1387.6	1357.6	1351.3
12.5°	1934.9	1932.4	1923.6	1883.6	1809.7	1719.5	1638.1	1544.2	1454.0	1412.7	1398.9
15°	2151.6	2147.8	2131.5	2082.7	1983.7	1869.8	1764.6	1644.4	1534.1	1480.3	1461.5
17.5°	2379.5	2379.5	2354.4	2281.8	2171.6	2030.1	1899.8	1747.0	1618.1	1551.7	1529.1
20°	2611.2	2609.9	2578.6	2490.9	2360.7	2197.9	2032.6	1864.8	1704.5	1624.3	1596.8
22.5°	2855.4	2852.9	2814.1	2713.9	2558.6	2374.5	2181.6	1981.2	1799.6	1703.2	1668.1
25°	3135.9	3132.2	3084.6	2961.8	2777.7	2569.8	2349.4	2117.7	1908.6	1790.9	1749.6
27.5°	3434.0	3429.0	3372.6	3229.8	3028.2	2777.7	2534.8	2275.5	2028.8	1888.6	1842.2
30°	3699.5	3695.7	3634.4	3487.8	3256.1	2984.4	2711.4	2433.3	2155.3	1992.5	1934.9
32.5°	3899.9	3899.9	3844.8	3700.7	3460.3	3182.3	2889.2	2582.4	2286.8	2104.0	2036.3
35°	4021.3	4025.1	3977.5	3862.3	3635.6	3368.9	3073.3	2757.7	2427.1	2222.9	2150.3
37.5°	4038.9	4051.4	4023.8	3946.2	3757.1	3524.1	3253.6	2926.8	2572.4	2343.2	2261.8
40°	3957.5	3966.2	3967.5	3937.4	3807.2	3635.6	3412.7	3105.9	2726.4	2469.7	2375.7
42.5°	3794.7	3800.9	3812.2	3821.0	3770.9	3684.5	3534.2	3272.4	2890.5	2598.7	2488.4
45°	3584.3	3583.0	3601.8	3639.4	3636.9	3656.9	3601.8	3424.0	3060.8	2745.2	2613.7
47.5°	3269.9	3263.7	3330.0	3415.2	3457.8	3551.7	3603.0	3542.9	3246.1	2906.7	2756.5
50°	2777.7	2771.5	2916.8	3117.1	3242.4	3385.1	3534.2	3614.3	3440.2	3088.3	2911.7
52.5°	2179.1	2172.8	2356.9	2707.6	2980.6	3188.5	3395.2	3630.6	3624.3	3291.2	3087.1
55°	1620.6	1615.5	1794.6	2174.1	2616.2	2960.6	3224.8	3588.0	3797.2	3524.1	3300.0
57.5°	1142.2	1139.7	1294.9	1609.3	2147.8	2682.6	3060.8	3505.4	3956.2	3777.1	3540.4
60°	801.5	797.8	910.5	1153.4	1624.3	2263.0	2898.0	3395.2	4075.2	4026.3	3795.9
62.5°	539.8	537.3	617.4	820.3	1153.4	1742.0	2651.3	3321.3	4142.8	4276.8	4053.9
65°	409.5	408.3	444.6	556.0	816.5	1251.1	2259.3	3312.5	4151.6	4464.7	4273.1
67.5°	330.6	331.9	351.9	415.8	564.8	889.2	1752.1	3257.4	4105.2	4528.5	4379.5
70°	270.5	270.5	279.3	321.9	417.0	599.9	1223.6	3006.9	3976.3	4362.0	4253.0
72.5°	206.6	207.9	235.4	260.5	314.3	420.8	784.0	2488.4	3671.9	3846.0	3763.4
75°	164.1	162.8	179.1	214.2	244.2	300.6	480.9	1784.6	3124.6	3005.7	2953.1
77.5°	117.7	116.5	129.0	159.1	185.3	212.9	286.8	900.4	1699.5	1561.7	1522.9
80°	80.2	77.6	88.9	110.2	122.7	125.2	140.3	345.7	741.4	698.8	690.1
82.5°	41.3	41.3	47.6	62.6	63.9	65.1	62.6	111.5	245.5	229.2	219.2
85°	16.3	16.3	17.5	21.3	21.3	22.5	22.5	28.8	26.3	25.0	23.8
87.5°	1.3	1.3	2.5	2.5	3.8	3.8	3.8	5.0	6.3	6.3	6.3
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°	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8
2.5°	1249.9	1244.8	1228.6	1224.8	1222.3	1218.5	1219.8	1211.0	1207.3	1208.5	1203.5
5°	1272.4	1263.6	1243.6	1234.8	1232.3	1228.6	1232.3	1226.1	1219.8	1222.3	1219.8
7.5°	1303.7	1291.2	1266.1	1257.4	1256.1	1252.4	1257.4	1252.4	1247.4	1249.9	1244.8
10°	1336.3	1320.0	1292.4	1283.7	1283.7	1282.4	1287.4	1279.9	1274.9	1276.2	1273.7
12.5°	1383.9	1362.6	1332.5	1325.0	1321.2	1325.0	1326.3	1316.2	1307.5	1308.7	1305.0
15°	1441.5	1417.7	1385.1	1373.8	1371.3	1370.1	1365.1	1352.6	1341.3	1340.0	1336.3
17.5°	1504.1	1474.0	1435.2	1423.9	1412.7	1408.9	1396.4	1380.1	1362.6	1362.6	1357.6
20°	1564.2	1530.4	1484.1	1467.8	1451.5	1436.5	1415.2	1388.9	1366.3	1362.6	1357.6
22.5°	1629.3	1589.2	1535.4	1511.6	1482.8	1452.7	1416.4	1381.4	1352.6	1346.3	1342.5
25°	1702.0	1651.9	1588.0	1552.9	1506.6	1460.3	1406.4	1361.3	1327.5	1317.5	1315.0
27.5°	1782.1	1722.0	1644.4	1593.0	1525.4	1452.7	1383.9	1330.0	1288.7	1276.2	1272.4
30°	1863.5	1792.1	1695.7	1620.6	1525.4	1428.9	1342.5	1279.9	1232.3	1214.8	1212.3
32.5°	1944.9	1864.8	1742.0	1635.6	1510.3	1388.9	1288.7	1214.8	1160.9	1139.7	1144.7
35°	2042.6	1944.9	1784.6	1641.8	1485.3	1340.0	1227.3	1140.9	1085.8	1067.0	1070.8
37.5°	2144.0	2025.1	1818.4	1636.8	1450.2	1284.9	1158.4	1074.5	1005.6	973.1	976.8
40°	2231.7	2097.7	1842.2	1619.3	1405.2	1222.3	1090.8	980.6	885.4	854.1	850.4
42.5°	2314.4	2151.6	1854.7	1593.0	1353.8	1149.7	994.4	852.9	757.7	718.9	720.1
45°	2400.8	2204.2	1849.7	1557.9	1289.9	1064.5	870.4	727.6	643.7	608.6	609.9
47.5°	2499.7	2260.5	1844.7	1520.4	1212.3	954.3	751.4	617.4	544.8	519.7	517.2
50°	2604.9	2323.1	1838.5	1474.0	1125.9	831.6	633.7	514.7	453.4	437.1	433.3
52.5°	2723.9	2390.8	1834.7	1418.9	1021.9	701.3	528.5	424.6	383.2	372.0	370.7
55°	2866.7	2469.7	1839.7	1352.6	896.7	578.6	439.6	365.7	338.1	331.9	330.6
57.5°	3040.7	2571.1	1854.7	1274.9	765.2	472.1	374.5	329.4	311.8	306.8	306.8
60°	3229.8	2686.3	1882.3	1187.2	633.7	389.5	331.9	300.6	293.1	299.3	299.3
62.5°	3434.0	2821.6	1931.1	1080.8	511.0	329.4	298.1	276.8	271.8	284.3	285.5
65°	3623.1	2953.1	1962.5	953.0	405.8	285.5	271.8	253.0	255.5	268.0	266.8
67.5°	3739.6	3062.0	1918.6	792.7	321.9	253.0	244.2	227.9	234.2	244.2	245.5
70°	3668.2	3000.7	1702.0	598.6	251.7	220.4	214.2	204.1	209.1	221.7	226.7
72.5°	3318.8	2687.6	1323.7	404.5	202.9	185.3	187.9	182.8	189.1	200.4	211.6
75°	2693.8	2031.3	887.9	259.2	160.3	157.8	161.6	157.8	160.3	171.6	177.8
77.5°	1406.4	990.6	442.1	161.6	119.0	122.7	129.0	130.2	137.8	140.3	142.8
80°	656.2	445.8	184.1	90.2	78.9	86.4	98.9	100.2	102.7	106.5	107.7
82.5°	214.2	134.0	85.2	48.8	45.1	48.8	63.9	76.4	77.6	85.2	85.2
85°	22.5	13.8	18.8	20.0	17.5	21.3	28.8	27.6	12.5	7.5	7.5
87.5°	6.3	5.0	6.3	6.3	5.0	5.0	3.8	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)