

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: P836610

Luminaire Tested: **ARCH3-50-727-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-50-727-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 425mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

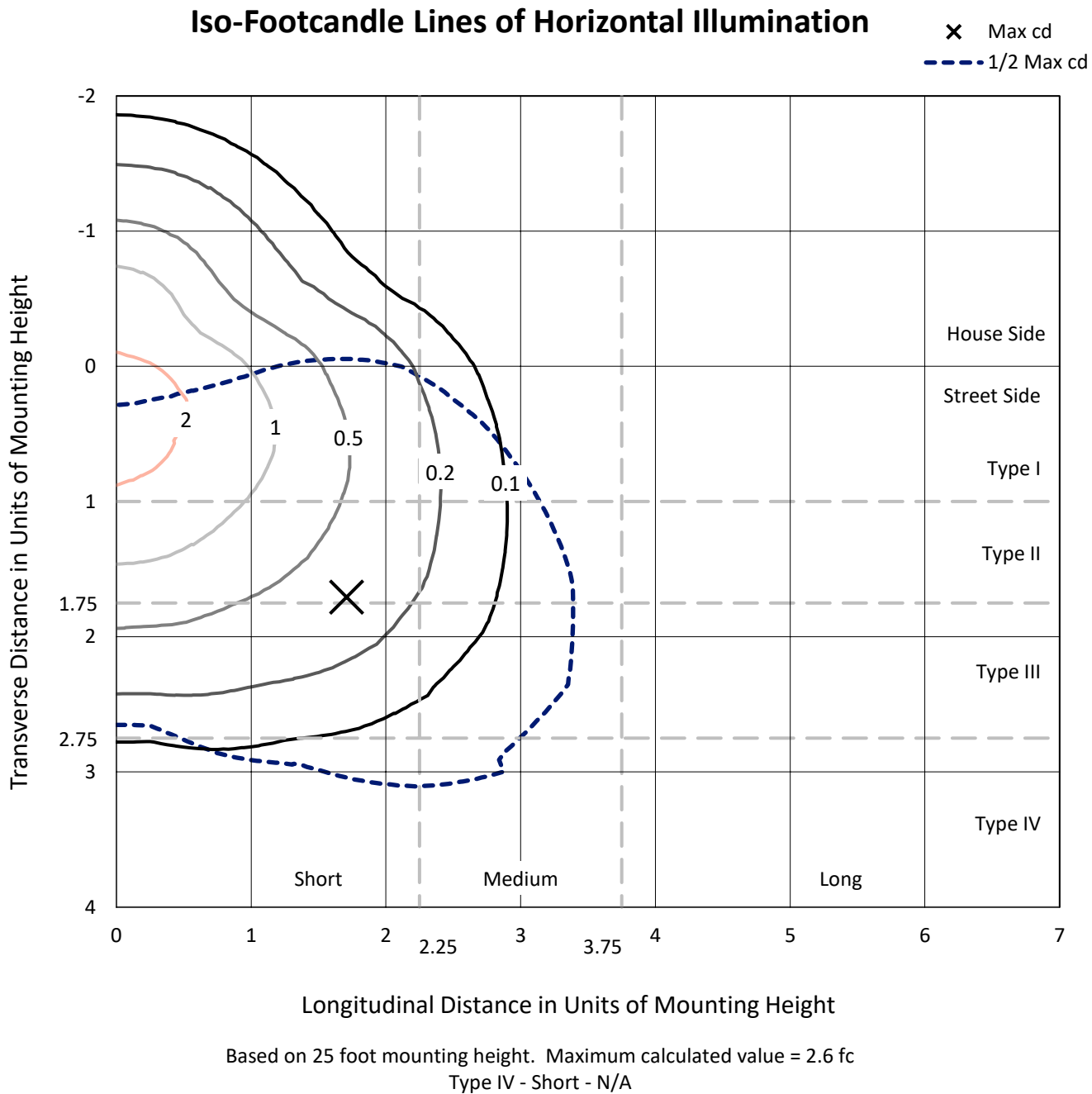
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8359 lumens
Efficiency: N/A
Efficacy: 156.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 53.6
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

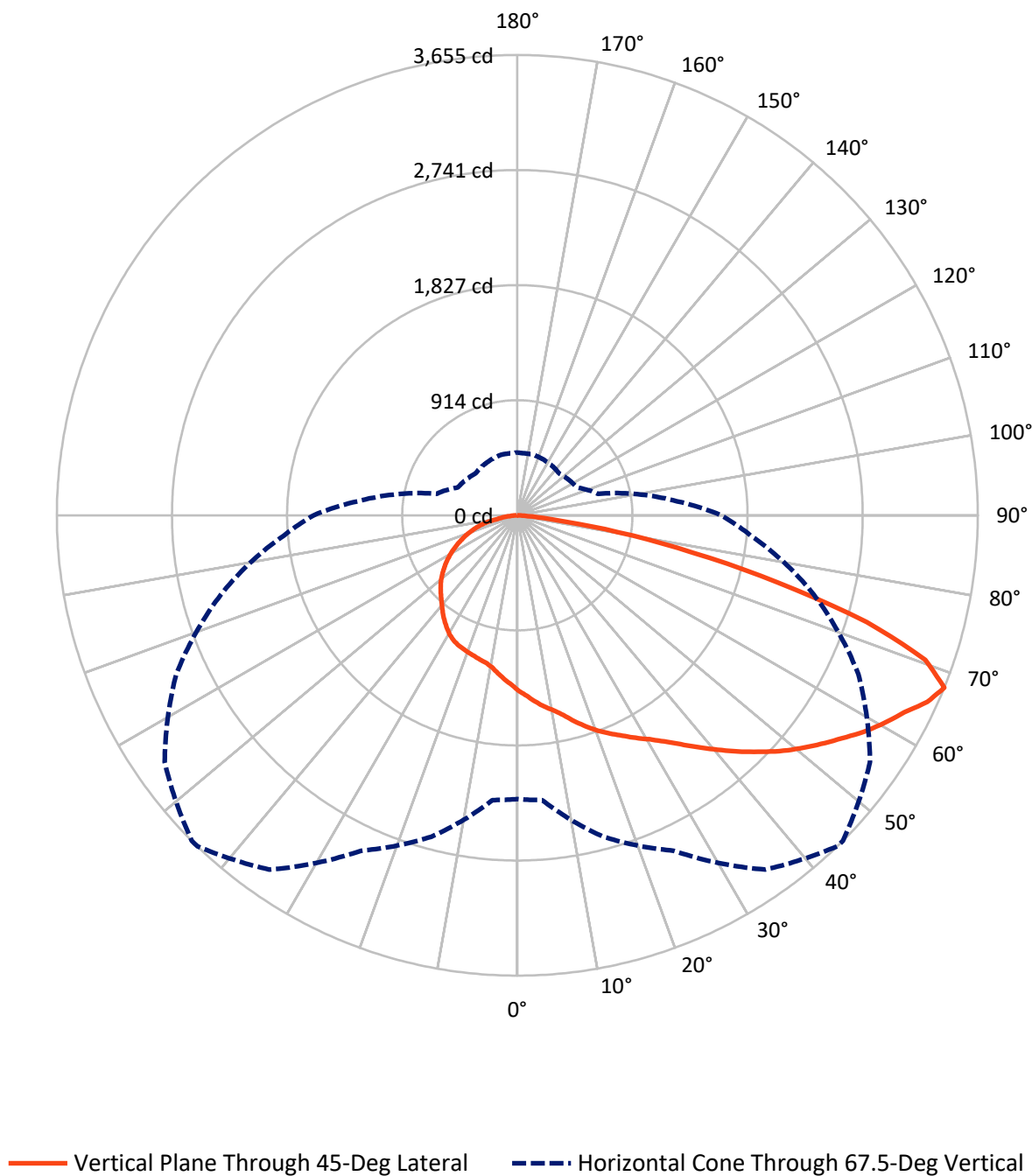


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2233.1	0.0	2233.1
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	6125.9	0.0	6125.9
	% Fixture	73.3	0.0	73.3
Total	Lumens	8359.0	0.0	8359.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	1.6
10°-20°	412.3	4.9
20°-30°	711.7	8.5
30°-40°	1049.6	12.6
40°-50°	1422.0	17.0
50°-60°	1738.0	20.8
60°-70°	1792.5	21.4
70°-80°	981.8	11.7
80°-90°	117.7	1.4
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°	8359.0	100.0
0°-180°	8359.0	100.0

Coefficient of Utilization



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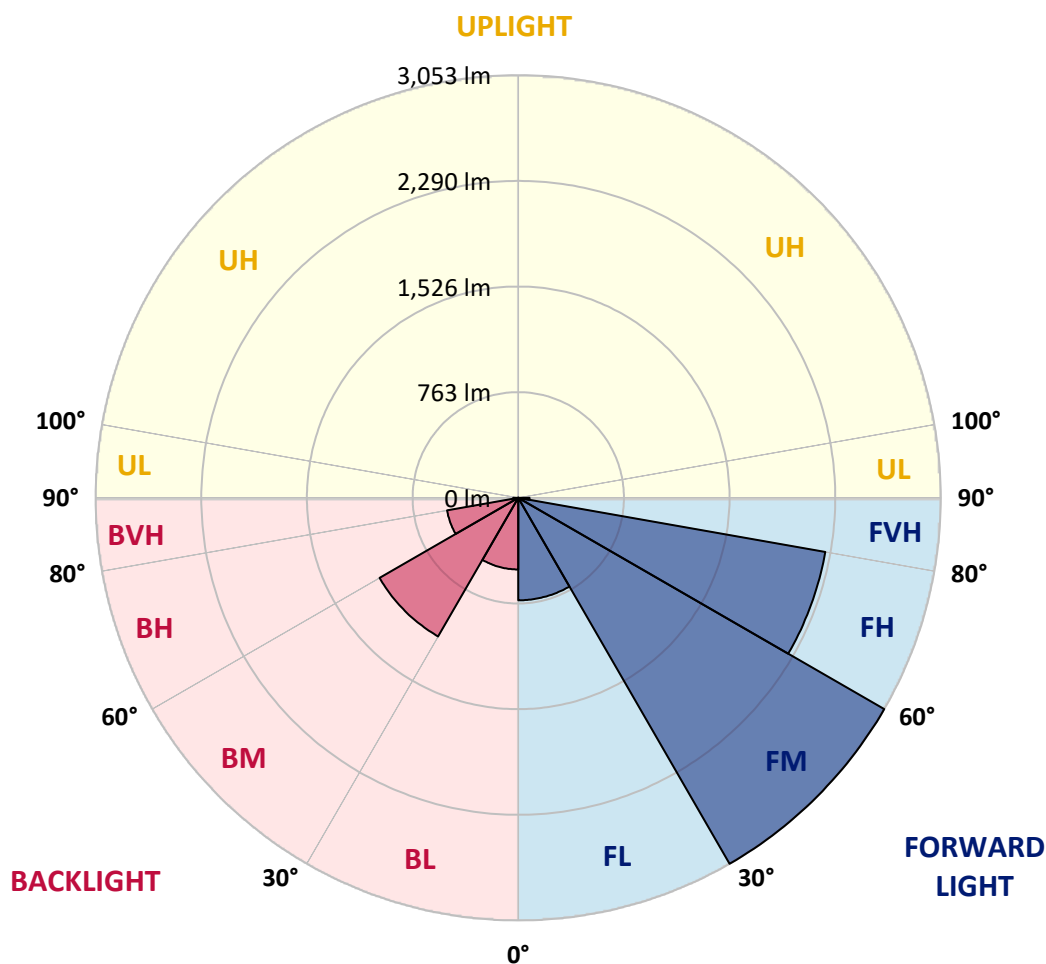
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	740.0	8.9			
FM	(30°-60°)	3052.8	36.5			
FH	(60°-80°)	2252.0	26.9			G2/5000
FVH	(80°-90°)	81.1	1.0			G1/100
BL	(0°-30°)	517.6	6.2	B2/1000		
BM	(30°-60°)	1156.7	13.8	B2/2500		
BH	(60°-80°)	522.2	6.2	B2/1000		G2/1000
BVH	(80°-90°)	36.6	0.4			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1
2.5°	1455.2	1453.9	1456.5	1447.5	1436.1	1434.8	1434.8	1427.2	1418.3	1400.5	1386.5
5°	1523.9	1521.3	1522.6	1509.9	1494.6	1487.0	1485.7	1469.2	1448.8	1420.8	1395.4
7.5°	1587.5	1584.9	1583.7	1569.7	1546.8	1534.0	1532.8	1508.6	1484.4	1441.2	1404.3
10°	1647.3	1644.7	1642.2	1623.1	1595.1	1576.0	1573.5	1542.9	1512.4	1459.0	1411.9
12.5°	1723.6	1718.5	1715.9	1693.0	1652.3	1632.0	1628.2	1587.5	1549.3	1484.4	1427.2
15°	1803.7	1799.9	1796.1	1774.5	1728.7	1701.9	1695.6	1644.7	1592.6	1517.5	1450.1
17.5°	1863.5	1859.7	1859.7	1840.6	1798.6	1768.1	1763.0	1701.9	1637.1	1548.0	1467.9
20°	1900.4	1896.6	1900.4	1888.9	1857.1	1831.7	1826.6	1759.2	1681.6	1576.0	1483.2
22.5°	1927.1	1923.3	1929.6	1924.6	1901.7	1886.4	1882.6	1816.4	1727.4	1605.3	1498.4
25°	1974.2	1974.2	1974.2	1965.3	1943.6	1938.5	1938.5	1881.3	1785.9	1643.4	1521.3
27.5°	2068.3	2063.2	2056.8	2031.4	1994.5	1993.2	2000.9	1947.4	1853.3	1693.0	1549.3
30°	2206.9	2204.4	2180.2	2126.8	2064.5	2058.1	2063.2	2018.7	1925.8	1745.2	1581.1
32.5°	2386.3	2377.4	2327.8	2247.6	2158.6	2129.3	2139.5	2092.5	2002.1	1798.6	1611.6
35°	2513.5	2516.0	2480.4	2407.9	2302.3	2224.7	2232.4	2175.1	2084.8	1858.4	1649.8
37.5°	2659.8	2668.7	2615.3	2560.6	2462.6	2330.3	2338.0	2260.4	2167.5	1933.5	1690.5
40°	2862.0	2844.2	2753.9	2689.0	2580.9	2441.0	2447.3	2355.8	2262.9	2004.7	1737.6
42.5°	3031.2	2999.4	2890.0	2807.3	2677.6	2558.0	2564.4	2458.8	2359.6	2083.6	1789.7
45°	3274.2	3186.4	3028.7	2988.0	2776.8	2672.5	2678.9	2568.2	2461.3	2167.5	1845.7
47.5°	3415.3	3275.4	3174.9	3153.3	2886.2	2790.8	2798.4	2683.9	2570.7	2262.9	1904.2
50°	3406.4	3316.1	3286.9	3233.4	2982.9	2901.5	2909.1	2803.5	2681.4	2357.0	1960.2
52.5°	3347.9	3364.5	3349.2	3260.2	3079.5	3008.3	3017.2	2921.8	2794.6	2444.8	2012.3
55°	3438.2	3449.7	3420.4	3303.4	3186.4	3115.2	3125.3	3046.5	2906.5	2522.4	2056.8
57.5°	3546.4	3505.7	3476.4	3379.7	3297.0	3230.9	3242.4	3173.7	3003.2	2584.7	2091.2
60°	3541.3	3456.1	3485.3	3384.8	3372.1	3337.8	3347.9	3278.0	3077.0	2630.5	2105.2
62.5°	3280.5	3234.7	3382.3	3347.9	3433.2	3433.2	3445.9	3341.6	3121.5	2649.6	2097.5
65°	2827.7	2830.2	3089.7	3232.2	3505.7	3564.2	3574.3	3381.0	3096.1	2593.6	2026.3
67.5°	2252.7	2269.3	2642.0	2938.3	3433.2	3653.2	3654.5	3416.6	2986.7	2435.9	1861.0
70°	1648.5	1661.2	2101.4	2461.3	3091.0	3456.1	3435.7	3316.1	2748.8	2161.1	1602.7
72.5°	1114.3	1125.7	1578.6	1890.2	2536.4	2943.4	2898.9	2930.7	2343.0	1775.7	1288.5
75°	749.2	763.2	1123.2	1352.1	1866.0	2234.9	2135.7	2219.7	1812.6	1344.5	940.0
77.5°	471.9	480.8	713.6	886.6	1274.6	1521.3	1422.1	1423.4	1044.3	723.8	505.0
80°	300.2	302.7	432.5	511.3	737.8	914.6	809.0	657.6	470.6	384.1	301.5
82.5°	174.3	170.4	258.2	288.7	351.1	347.3	287.5	272.2	206.1	192.1	153.9
85°	70.0	64.9	113.2	105.6	106.8	113.2	84.0	84.0	67.4	52.2	38.2
87.5°	14.0	14.0	15.3	14.0	14.0	15.3	11.4	11.4	10.2	10.2	10.2
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°	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1
2.5°	1383.9	1381.4	1375.0	1358.5	1349.6	1344.5	1336.9	1334.3	1333.1	1334.3	1338.2
5°	1387.8	1378.9	1361.1	1334.3	1316.5	1305.1	1292.4	1287.3	1283.5	1283.5	1287.3
7.5°	1390.3	1376.3	1345.8	1306.4	1280.9	1263.1	1247.8	1241.5	1240.2	1244.0	1245.3
10°	1391.6	1371.2	1328.0	1278.4	1245.3	1222.4	1207.1	1203.3	1207.1	1214.8	1216.0
12.5°	1400.5	1372.5	1317.8	1259.3	1219.9	1197.0	1185.5	1185.5	1195.7	1209.7	1211.0
15°	1415.7	1381.4	1312.7	1244.0	1203.3	1183.0	1179.2	1185.5	1200.8	1222.4	1224.9
17.5°	1427.2	1386.5	1301.3	1223.7	1181.7	1169.0	1175.3	1190.6	1212.2	1241.5	1244.0
20°	1434.8	1386.5	1284.7	1199.5	1160.1	1157.5	1175.3	1199.5	1222.4	1256.7	1260.6
22.5°	1442.5	1383.9	1265.6	1170.2	1135.9	1143.5	1176.6	1207.1	1230.0	1266.9	1273.3
25°	1456.5	1387.8	1246.6	1141.0	1110.5	1132.1	1175.3	1212.2	1236.4	1274.6	1284.7
27.5°	1475.5	1396.7	1232.6	1114.3	1085.0	1114.3	1166.4	1211.0	1236.4	1273.3	1284.7
30°	1495.9	1406.8	1216.0	1085.0	1055.8	1088.8	1147.4	1197.0	1226.2	1260.6	1274.6
32.5°	1517.5	1418.3	1202.0	1053.2	1020.2	1054.5	1119.4	1175.3	1207.1	1238.9	1254.2
35°	1546.8	1438.6	1194.4	1027.8	988.4	1018.9	1083.8	1147.4	1181.7	1211.0	1228.8
37.5°	1582.4	1464.1	1190.6	1002.3	954.0	979.4	1045.6	1113.0	1149.9	1174.1	1190.6
40°	1623.1	1495.9	1189.3	978.2	919.7	938.7	1006.2	1073.6	1109.2	1128.3	1142.3
42.5°	1668.9	1531.5	1186.8	954.0	885.3	900.6	968.0	1034.1	1064.7	1081.2	1093.9
45°	1717.2	1567.1	1181.7	924.8	848.4	866.2	928.6	987.1	1018.9	1032.9	1046.9
47.5°	1765.5	1602.7	1171.5	891.7	815.4	831.9	886.6	937.5	962.9	975.6	989.6
50°	1812.6	1634.5	1147.4	853.5	781.0	796.3	838.3	872.6	891.7	901.9	915.8
52.5°	1854.6	1656.2	1113.0	809.0	746.7	754.3	782.3	811.5	826.8	828.1	840.8
55°	1890.2	1667.6	1063.4	763.2	709.8	711.1	726.3	749.2	755.6	750.5	759.4
57.5°	1910.6	1661.2	1008.7	716.1	671.6	666.5	678.0	689.4	690.7	678.0	686.9
60°	1915.6	1632.0	937.5	669.1	633.5	619.5	623.3	620.7	618.2	613.1	620.7
62.5°	1890.2	1569.7	858.6	623.3	592.8	571.1	569.9	568.6	572.4	573.7	574.9
65°	1797.3	1452.6	764.5	576.2	549.5	520.3	519.0	534.2	539.3	531.7	534.2
67.5°	1618.0	1273.3	661.4	521.5	494.8	469.4	479.5	488.5	497.4	494.8	497.4
70°	1363.6	1045.6	567.3	460.5	435.0	421.0	432.5	440.1	441.4	438.8	441.4
72.5°	1072.3	816.6	479.5	398.1	375.2	368.9	382.9	389.2	400.7	405.8	407.0
75°	774.7	602.9	393.1	330.7	311.6	311.6	324.4	335.8	346.0	339.6	335.8
77.5°	432.5	360.0	282.4	227.7	231.5	249.3	254.4	267.1	277.3	276.0	273.5
80°	262.0	225.1	190.8	147.6	146.3	160.3	193.3	215.0	220.1	208.6	207.3
82.5°	136.1	118.3	101.8	82.7	91.6	106.8	111.9	134.8	148.8	143.7	150.1
85°	34.3	33.1	36.9	38.2	47.1	52.2	57.2	67.4	44.5	21.6	21.6
87.5°	10.2	10.2	12.7	12.7	16.5	20.4	19.1	19.1	10.2	1.3	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)