

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: P836613

Luminaire Tested: **ARCH3-50-730-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836613
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: ARCH3-50-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 425mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8930 lumens
Efficiency: N/A
Efficacy: 166.6 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): 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



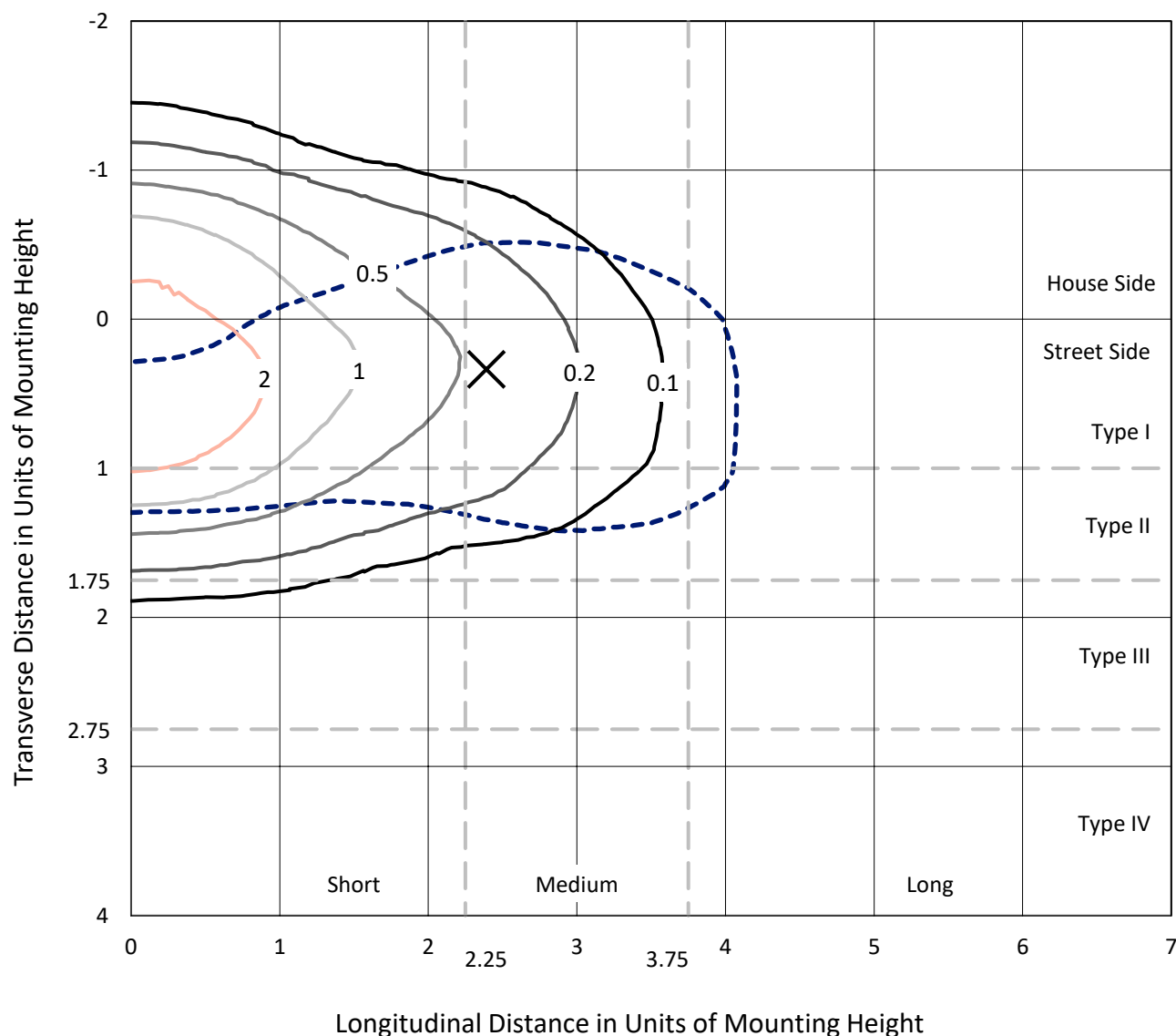
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

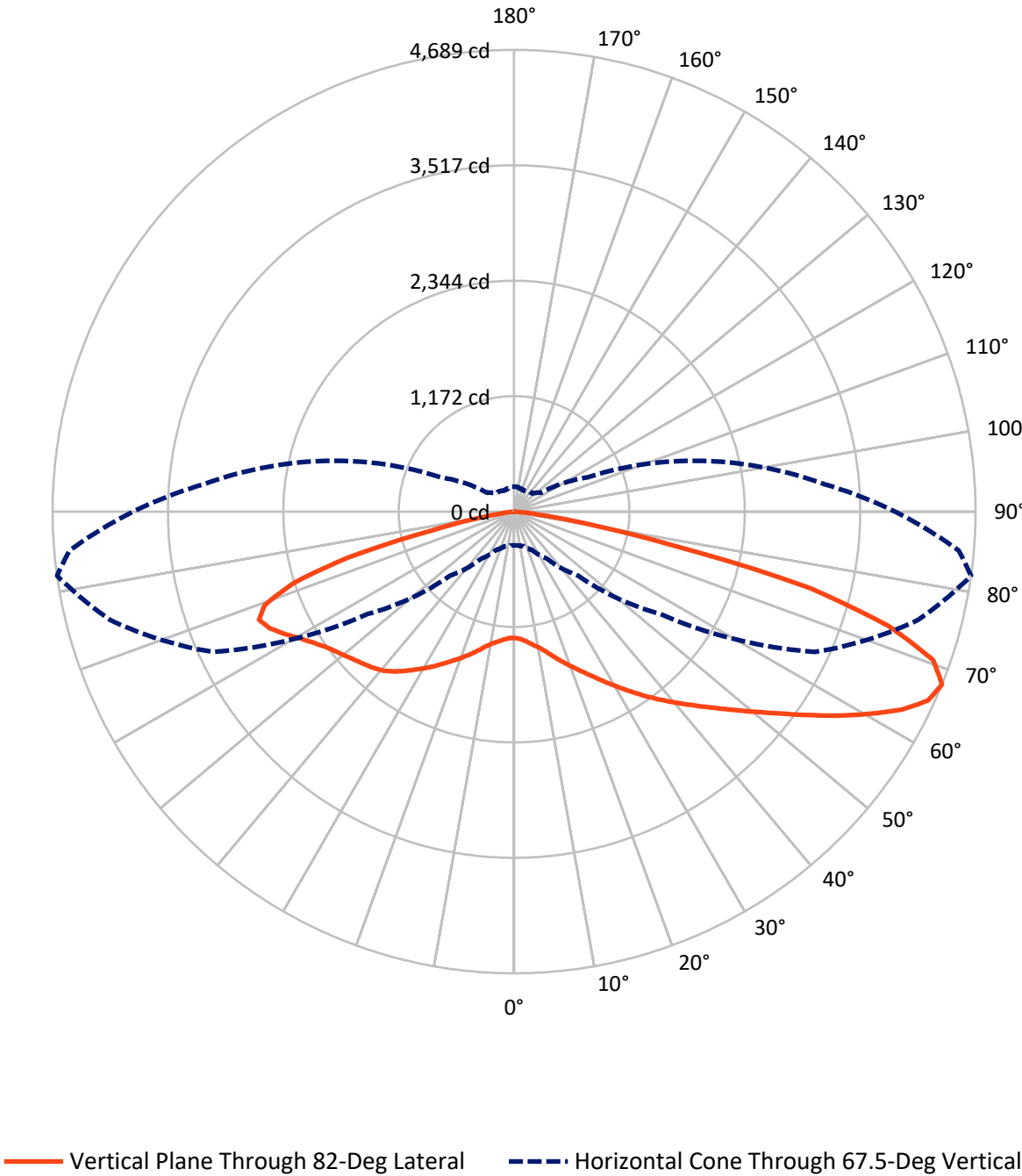
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	2719.5	0.0	2719.5
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	6210.5	0.0	6210.5
	% Fixture	69.5	0.0	69.5
Total	Lumens	8930.0	0.0	8930.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.7	1.5
10°-20°	477.9	5.4
20°-30°	960.4	10.8
30°-40°	1508.6	16.9
40°-50°	1837.8	20.6
50°-60°	1736.5	19.4
60°-70°	1433.9	16.1
70°-80°	780.8	8.7
80°-90°	61.4	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°	8930.0	100.0
0°-180°	8930.0	100.0

Coefficient of Utilization



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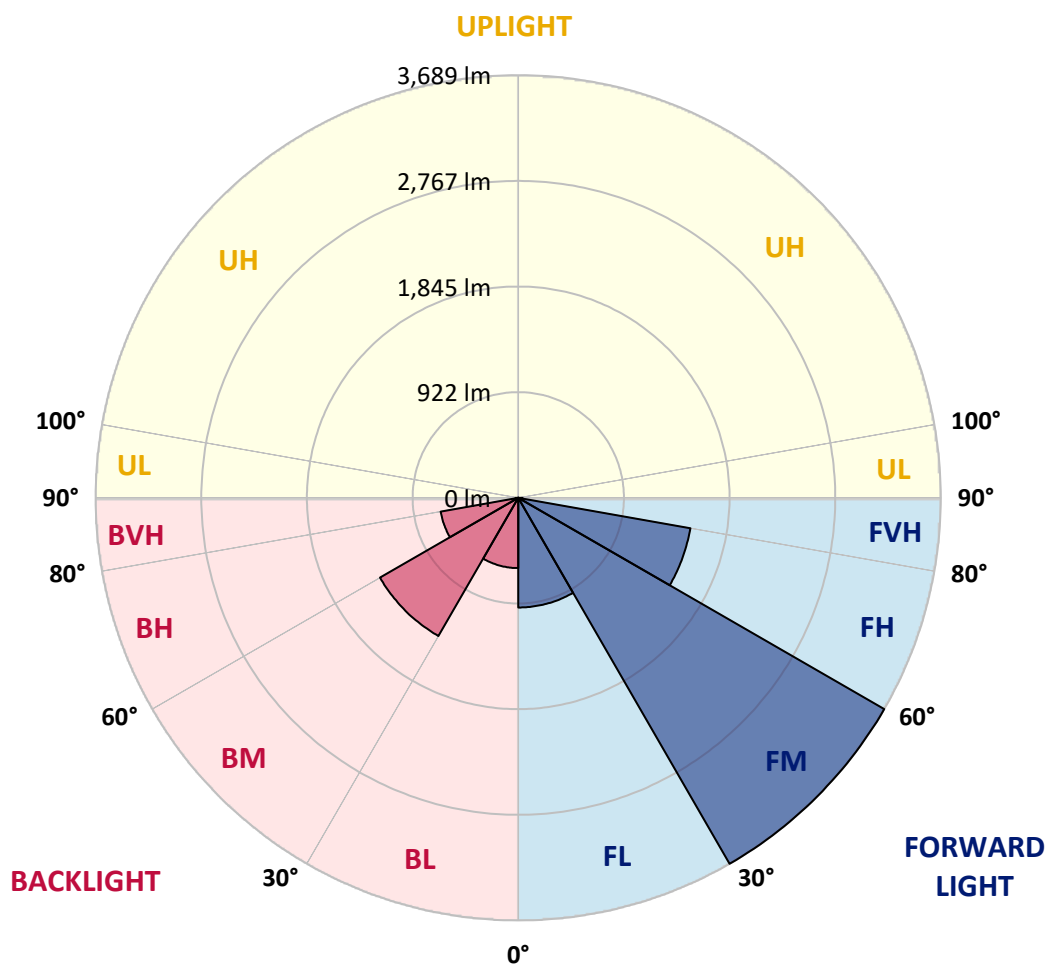
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	957.6	10.7			
FM	(30°-60°)	3689.4	41.3			
FH	(60°-80°)	1526.5	17.1			G1/1800
FVH	(80°-90°)	37.0	0.4			G1/100
BL	(0°-30°)	613.3	6.9	B2/1000		
BM	(30°-60°)	1393.6	15.6	B2/2500		
BH	(60°-80°)	688.3	7.7	B2/1000		G2/1000
BVH	(80°-90°)	24.4	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°	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7
2.5°	1342.0	1342.0	1352.4	1352.4	1343.3	1329.1	1325.2	1309.6	1295.4	1295.4	1296.6
5°	1470.4	1469.1	1476.9	1466.5	1444.5	1415.9	1396.5	1362.8	1334.3	1325.2	1323.9
7.5°	1627.3	1626.0	1629.9	1613.0	1571.5	1524.9	1486.0	1431.5	1384.8	1365.4	1360.2
10°	1802.3	1801.0	1797.2	1768.6	1712.9	1640.3	1581.9	1506.7	1436.7	1405.6	1399.1
12.5°	2003.3	2000.7	1991.7	1950.2	1873.7	1780.3	1696.0	1598.8	1505.4	1462.6	1448.4
15°	2227.6	2223.8	2206.9	2156.3	2053.9	1935.9	1827.0	1702.5	1588.4	1532.6	1513.2
17.5°	2463.6	2463.6	2437.7	2362.5	2248.4	2101.9	1967.0	1808.8	1675.3	1606.5	1583.2
20°	2703.5	2702.2	2669.8	2579.0	2444.2	2275.6	2104.5	1930.7	1764.7	1681.8	1653.2
22.5°	2956.4	2953.8	2913.6	2809.8	2649.1	2458.4	2258.8	2051.3	1863.3	1763.4	1727.1
25°	3246.8	3242.9	3193.6	3066.6	2876.0	2660.7	2432.5	2192.6	1976.1	1854.2	1811.4
27.5°	3555.4	3550.2	3491.9	3344.1	3135.3	2876.0	2624.4	2356.0	2100.6	1955.3	1907.4
30°	3830.3	3826.4	3762.9	3611.2	3371.3	3089.9	2807.2	2519.4	2231.5	2063.0	2003.3
32.5°	4037.8	4037.8	3980.7	3831.6	3582.6	3294.8	2991.4	2673.7	2367.7	2178.4	2108.4
35°	4163.5	4167.4	4118.2	3998.9	3764.2	3488.0	3182.0	2855.2	2512.9	2301.6	2226.3
37.5°	4181.7	4194.7	4166.1	4085.7	3889.9	3648.8	3368.7	3030.3	2663.3	2426.0	2341.7
40°	4097.4	4106.5	4107.8	4076.7	3941.8	3764.2	3533.4	3215.7	2822.8	2557.0	2459.7
42.5°	3928.8	3935.3	3947.0	3956.1	3904.2	3814.7	3659.1	3388.1	2992.7	2690.5	2576.4
45°	3711.0	3709.7	3729.2	3768.1	3765.5	3786.2	3729.2	3545.0	3169.0	2842.3	2706.1
47.5°	3385.6	3379.1	3447.8	3536.0	3580.0	3677.3	3730.5	3668.2	3360.9	3009.5	2853.9
50°	2876.0	2869.5	3019.9	3227.4	3357.0	3504.8	3659.1	3742.1	3561.9	3197.5	3014.7
52.5°	2256.2	2249.7	2440.3	2803.4	3086.0	3301.3	3515.2	3759.0	3752.5	3407.6	3196.2
55°	1677.9	1672.7	1858.1	2251.0	2708.7	3065.3	3338.9	3714.9	3931.4	3648.8	3416.7
57.5°	1182.5	1180.0	1340.7	1666.2	2223.8	2777.4	3169.0	3629.3	4096.1	3910.7	3665.6
60°	829.9	826.0	942.7	1194.2	1681.8	2343.0	3000.4	3515.2	4219.3	4168.7	3930.1
62.5°	558.9	556.3	639.2	849.3	1194.2	1803.6	2745.0	3438.7	4289.3	4428.1	4197.3
65°	424.0	422.7	460.3	575.7	845.4	1295.4	2339.2	3429.6	4298.4	4622.6	4424.2
67.5°	342.3	343.6	364.4	430.5	584.8	920.6	1814.0	3372.6	4250.4	4688.7	4534.4
70°	280.1	280.1	289.2	333.2	431.8	621.1	1266.8	3113.3	4116.9	4516.2	4403.4
72.5°	213.9	215.2	243.8	269.7	325.5	435.7	811.7	2576.4	3801.8	3982.0	3896.4
75°	169.9	168.6	185.4	221.7	252.8	311.2	497.9	1847.7	3235.1	3112.0	3057.5
77.5°	121.9	120.6	133.6	164.7	191.9	220.4	296.9	932.3	1759.6	1616.9	1576.7
80°	83.0	80.4	92.1	114.1	127.1	129.7	145.2	357.9	767.6	723.5	714.5
82.5°	42.8	42.8	49.3	64.8	66.1	67.4	64.8	115.4	254.1	237.3	226.9
85°	16.9	16.9	18.2	22.0	22.0	23.3	23.3	29.8	27.2	25.9	24.6
87.5°	1.3	1.3	2.6	2.6	3.9	3.9	3.9	5.2	6.5	6.5	6.5
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°	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7	1283.7
2.5°	1294.1	1288.9	1272.0	1268.1	1265.5	1261.6	1262.9	1253.9	1250.0	1251.3	1246.1
5°	1317.4	1308.3	1287.6	1278.5	1275.9	1272.0	1275.9	1269.4	1262.9	1265.5	1262.9
7.5°	1349.8	1336.8	1310.9	1301.8	1300.5	1296.6	1301.8	1296.6	1291.5	1294.1	1288.9
10°	1383.5	1366.7	1338.1	1329.1	1329.1	1327.8	1333.0	1325.2	1320.0	1321.3	1318.7
12.5°	1432.8	1410.8	1379.6	1371.9	1368.0	1371.9	1373.2	1362.8	1353.7	1355.0	1351.1
15°	1492.4	1467.8	1434.1	1422.4	1419.8	1418.5	1413.3	1400.4	1388.7	1387.4	1383.5
17.5°	1557.3	1526.2	1486.0	1474.3	1462.6	1458.7	1445.8	1428.9	1410.8	1410.8	1405.6
20°	1619.5	1584.5	1536.5	1519.7	1502.8	1487.3	1465.2	1438.0	1414.6	1410.8	1405.6
22.5°	1686.9	1645.4	1589.7	1565.1	1535.2	1504.1	1466.5	1430.2	1400.4	1393.9	1390.0
25°	1762.1	1710.3	1644.2	1607.8	1559.9	1511.9	1456.1	1409.5	1374.4	1364.1	1361.5
27.5°	1845.1	1782.9	1702.5	1649.3	1579.3	1504.1	1432.8	1377.0	1334.3	1321.3	1317.4
30°	1929.4	1855.5	1755.7	1677.9	1579.3	1479.5	1390.0	1325.2	1275.9	1257.7	1255.2
32.5°	2013.7	1930.7	1803.6	1693.4	1563.8	1438.0	1334.3	1257.7	1202.0	1180.0	1185.1
35°	2114.8	2013.7	1847.7	1699.9	1537.8	1387.4	1270.7	1181.2	1124.2	1104.7	1108.6
37.5°	2219.9	2096.7	1882.7	1694.7	1501.5	1330.4	1199.4	1112.5	1041.2	1007.5	1011.4
40°	2310.6	2171.9	1907.4	1676.6	1454.8	1265.5	1129.4	1015.3	916.7	884.3	880.4
42.5°	2396.2	2227.6	1920.3	1649.3	1401.7	1190.3	1029.5	883.0	784.5	744.3	745.6
45°	2485.7	2282.1	1915.2	1613.0	1335.5	1102.2	901.2	753.4	666.5	630.2	631.5
47.5°	2588.1	2340.5	1910.0	1574.1	1255.2	988.0	778.0	639.2	564.0	538.1	535.5
50°	2697.0	2405.3	1903.5	1526.2	1165.7	861.0	656.1	532.9	469.4	452.5	448.6
52.5°	2820.2	2475.3	1899.6	1469.1	1058.1	726.1	547.2	439.6	396.8	385.1	383.8
55°	2968.0	2557.0	1904.8	1400.4	928.4	599.1	455.1	378.6	350.1	343.6	342.3
57.5°	3148.3	2662.0	1920.3	1320.0	792.3	488.8	387.7	341.0	322.9	317.7	317.7
60°	3344.1	2781.3	1948.9	1229.2	656.1	403.3	343.6	311.2	303.4	309.9	309.9
62.5°	3555.4	2921.4	1999.4	1119.0	529.0	341.0	308.6	286.6	281.4	294.3	295.6
65°	3751.2	3057.5	2031.8	986.8	420.1	295.6	281.4	261.9	264.5	277.5	276.2
67.5°	3871.8	3170.3	1986.5	820.8	333.2	261.9	252.8	236.0	242.5	252.8	254.1
70°	3797.9	3106.8	1762.1	619.8	260.6	228.2	221.7	211.4	216.5	229.5	234.7
72.5°	3436.1	2782.6	1370.6	418.8	210.1	191.9	194.5	189.3	195.8	207.5	219.1
75°	2789.1	2103.2	919.3	268.4	166.0	163.4	167.3	163.4	166.0	177.6	184.1
77.5°	1456.1	1025.6	457.7	167.3	123.2	127.1	133.6	134.9	142.6	145.2	147.8
80°	679.4	461.6	190.6	93.4	81.7	89.5	102.4	103.7	106.3	110.2	111.5
82.5°	221.7	138.7	88.2	50.6	46.7	50.6	66.1	79.1	80.4	88.2	88.2
85°	23.3	14.3	19.4	20.7	18.2	22.0	29.8	28.5	13.0	7.8	7.8
87.5°	6.5	5.2	6.5	6.5	5.2	5.2	3.9	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)