

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: P836685

Luminaire Tested: **ARCH3-60-730-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836685
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: ARCH3-60-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 505mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10467 lumens
Efficiency: N/A
Efficacy: 165.6 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): 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

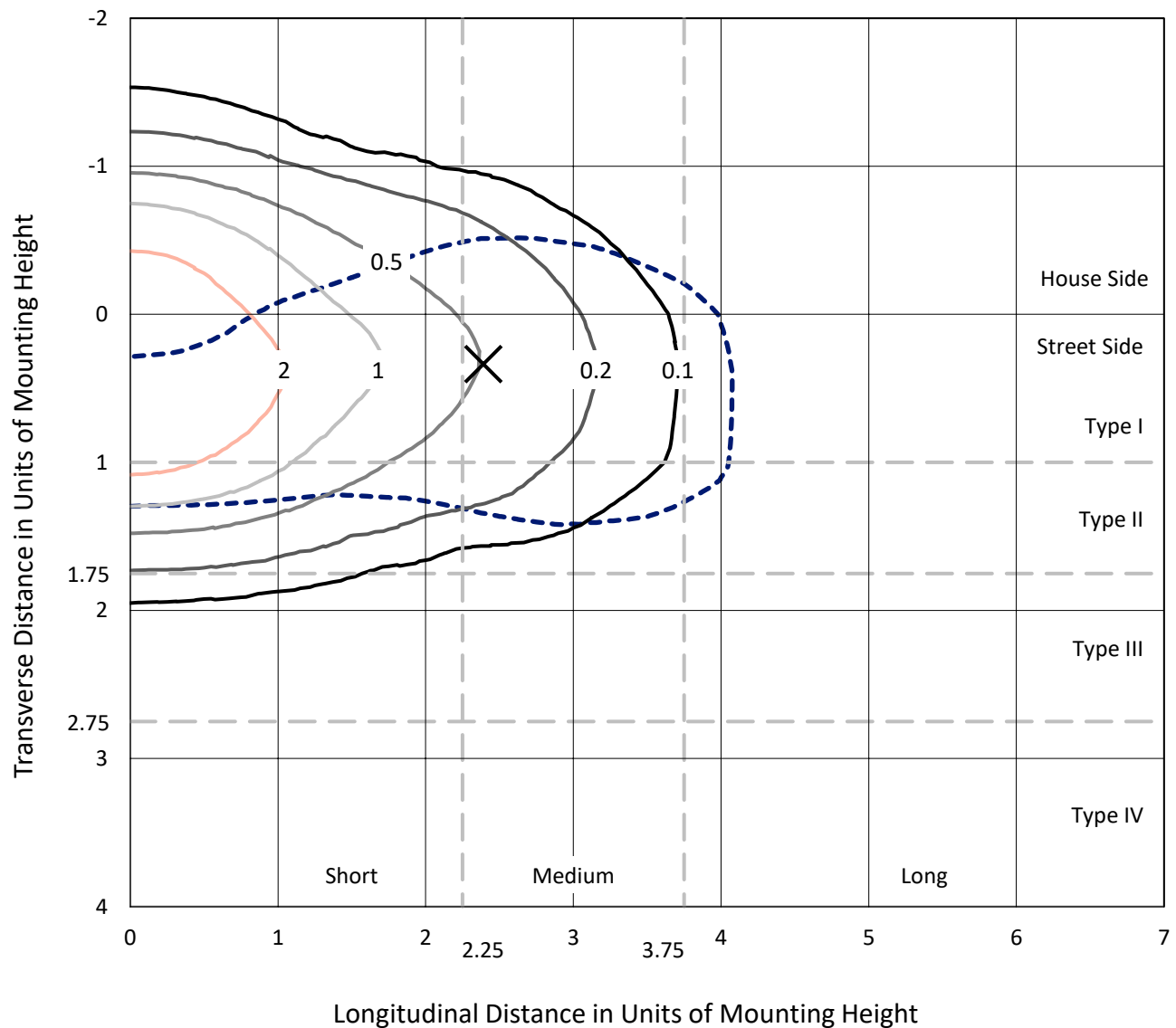


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Iso-Footcandle Lines of Horizontal Illumination

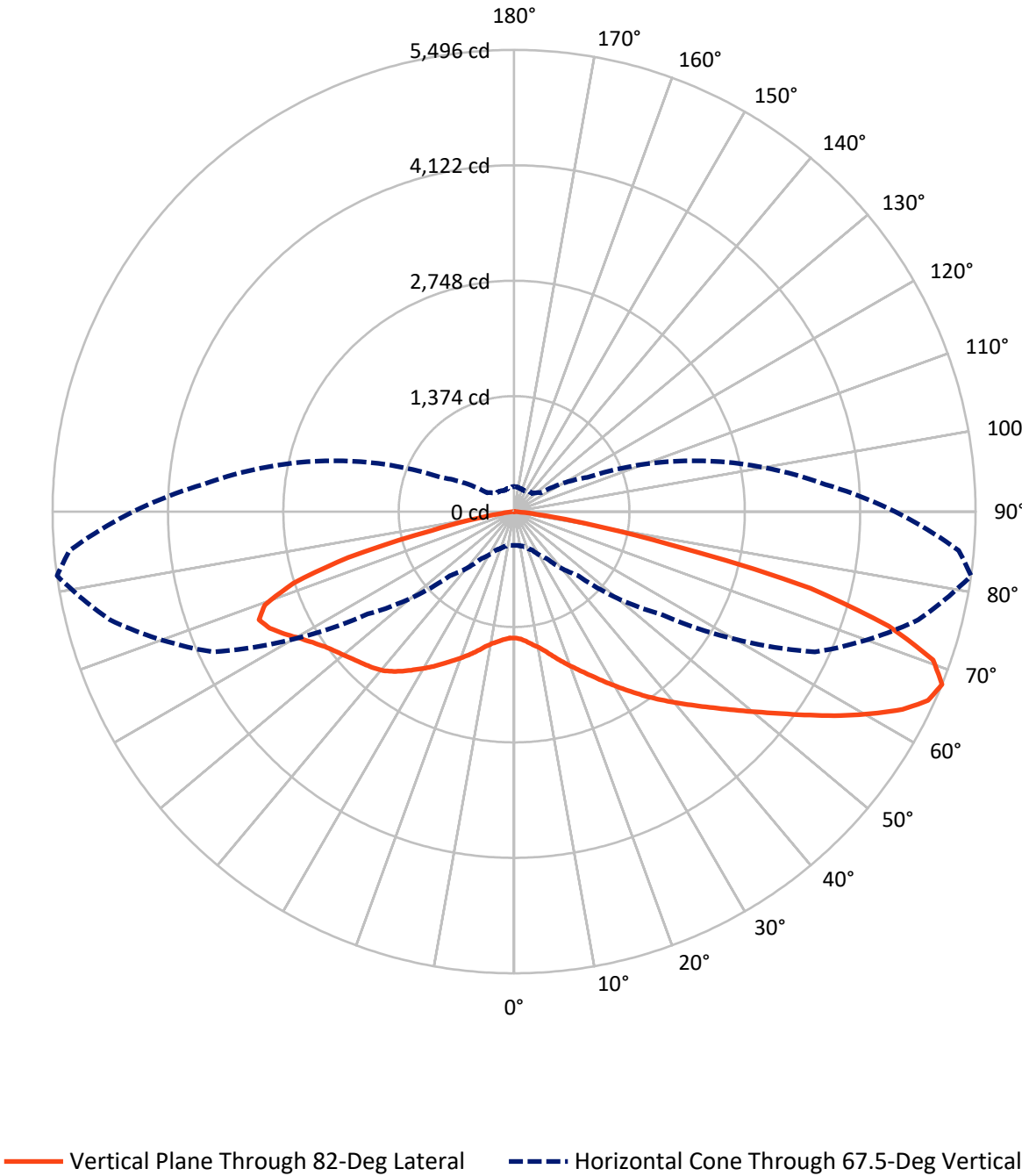
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	3187.6	0.0	3187.6
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	7279.4	0.0	7279.4
	% Fixture	69.5	0.0	69.5
Total	Lumens	10467.0	0.0	10467.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.5	1.5
10°-20°	560.1	5.4
20°-30°	1125.7	10.8
30°-40°	1768.3	16.9
40°-50°	2154.1	20.6
50°-60°	2035.4	19.4
60°-70°	1680.8	16.1
70°-80°	915.2	8.7
80°-90°	72.0	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°	10467.0	100.0
0°-180°	10467.0	100.0

Coefficient of Utilization



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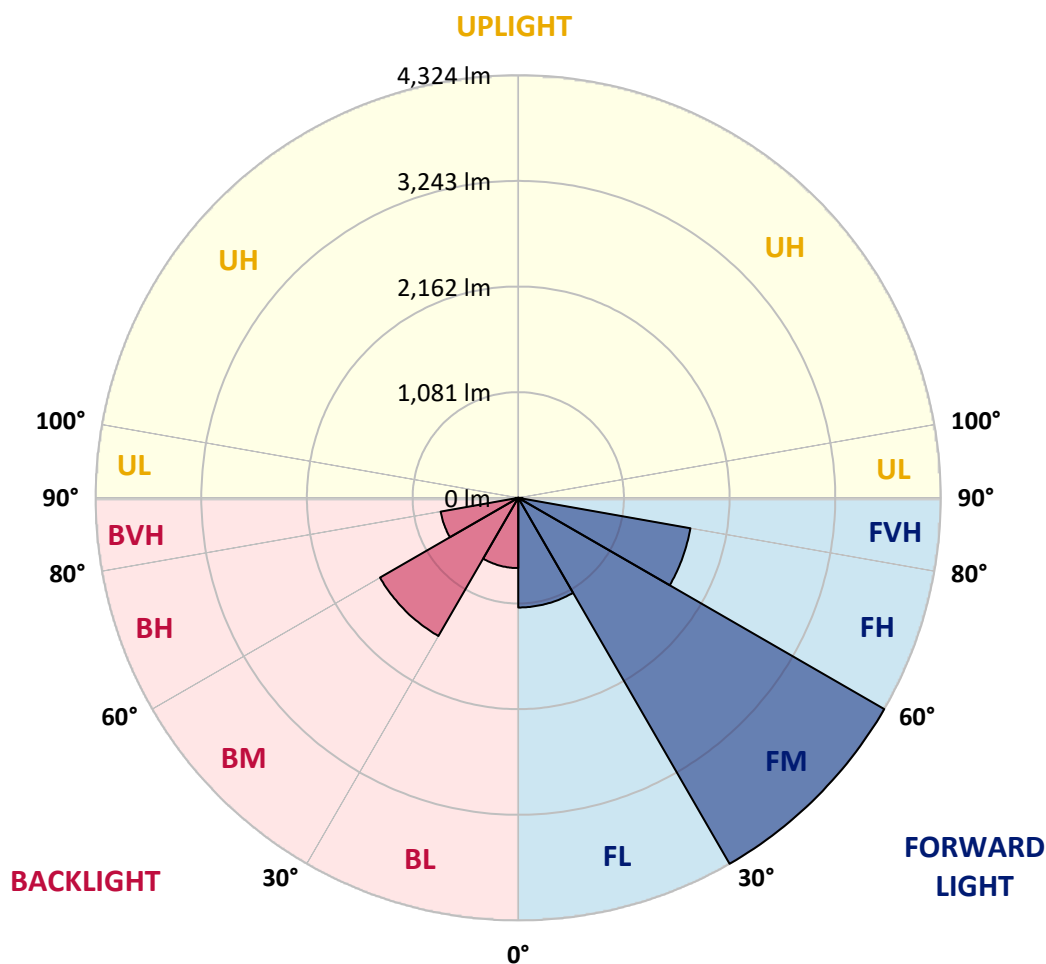
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1122.4	10.7			
FM	(30°-60°)	4324.4	41.3			
FH	(60°-80°)	1789.2	17.1			G1/1800
FVH	(80°-90°)	43.4	0.4			G1/100
BL	(0°-30°)	718.8	6.9	B2/1000		
BM	(30°-60°)	1633.4	15.6	B2/2500		
BH	(60°-80°)	806.8	7.7	B2/1000		G2/1000
BVH	(80°-90°)	28.6	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°	1504.6	1504.6	1504.6	1504.6	1504.6	1504.6	1504.6	1504.6	1504.6	1504.6	1504.6
2.5°	1573.0	1573.0	1585.2	1585.2	1574.5	1557.8	1553.3	1535.0	1518.3	1518.3	1519.8
5°	1723.5	1722.0	1731.1	1718.9	1693.1	1659.6	1636.9	1597.3	1563.9	1553.3	1551.7
7.5°	1907.4	1905.9	1910.4	1890.7	1842.0	1787.3	1741.7	1677.9	1623.2	1600.4	1594.3
10°	2112.6	2111.0	2106.5	2073.0	2007.7	1922.6	1854.2	1766.0	1684.0	1647.5	1639.9
12.5°	2348.1	2345.1	2334.4	2285.8	2196.1	2086.7	1987.9	1873.9	1764.5	1714.4	1697.6
15°	2611.1	2606.5	2586.7	2527.5	2407.4	2269.1	2141.4	1995.5	1861.8	1796.4	1773.6
17.5°	2887.7	2887.7	2857.3	2769.1	2635.4	2463.6	2305.6	2120.2	1963.6	1883.1	1855.7
20°	3168.8	3167.3	3129.3	3022.9	2864.9	2667.3	2466.7	2263.0	2068.5	1971.2	1937.8
22.5°	3465.2	3462.2	3415.0	3293.5	3105.0	2881.6	2647.5	2404.4	2184.0	2067.0	2024.4
25°	3805.6	3801.1	3743.3	3594.4	3371.0	3118.7	2851.2	2570.0	2316.2	2173.3	2123.2
27.5°	4167.4	4161.3	4092.9	3919.6	3674.9	3371.0	3076.1	2761.5	2462.1	2291.9	2235.7
30°	4489.6	4485.0	4410.5	4232.7	3951.5	3621.7	3290.4	2953.0	2615.6	2418.0	2348.1
32.5°	4732.7	4732.7	4665.9	4491.1	4199.3	3861.9	3506.2	3133.9	2775.2	2553.3	2471.2
35°	4880.2	4884.7	4827.0	4687.1	4412.0	4088.3	3729.6	3346.7	2945.4	2697.7	2609.5
37.5°	4901.4	4916.6	4883.2	4789.0	4559.5	4276.8	3948.5	3551.8	3121.7	2843.6	2744.8
40°	4802.6	4813.3	4814.8	4778.3	4620.3	4412.0	4141.5	3769.2	3308.7	2997.1	2883.1
42.5°	4605.1	4612.7	4626.3	4637.0	4576.2	4471.3	4288.9	3971.3	3507.8	3153.6	3019.9
45°	4349.7	4348.2	4371.0	4416.6	4413.6	4437.9	4371.0	4155.2	3714.5	3331.5	3171.9
47.5°	3968.3	3960.7	4041.2	4144.6	4196.2	4310.2	4372.5	4299.6	3939.4	3527.5	3345.1
50°	3371.0	3363.4	3539.7	3782.8	3934.8	4108.1	4288.9	4386.2	4175.0	3747.9	3533.6
52.5°	2644.5	2636.9	2860.3	3285.9	3617.2	3869.5	4120.2	4406.0	4398.4	3994.1	3746.4
55°	1966.7	1960.6	2177.9	2638.4	3174.9	3592.9	3913.5	4354.3	4608.1	4276.8	4004.7
57.5°	1386.1	1383.0	1571.5	1953.0	2606.5	3255.5	3714.5	4254.0	4801.1	4583.8	4296.5
60°	972.7	968.1	1104.9	1399.8	1971.2	2746.3	3516.9	4120.2	4945.5	4886.2	4606.6
62.5°	655.0	652.0	749.3	995.5	1399.8	2114.1	3217.5	4030.6	5027.6	5190.2	4919.7
65°	497.0	495.5	539.5	674.8	990.9	1518.3	2741.8	4019.9	5038.2	5418.2	5185.6
67.5°	401.2	402.8	427.1	504.6	685.4	1079.1	2126.2	3953.1	4982.0	5495.7	5314.8
70°	328.3	328.3	338.9	390.6	506.1	728.0	1484.9	3649.1	4825.4	5293.5	5161.3
72.5°	250.8	252.3	285.7	316.1	381.5	510.7	951.4	3019.9	4456.1	4667.4	4567.1
75°	199.1	197.6	217.3	259.9	296.4	364.8	583.6	2165.7	3792.0	3647.6	3583.7
77.5°	142.9	141.3	156.5	193.0	224.9	258.4	348.0	1092.8	2062.4	1895.2	1848.1
80°	97.3	94.2	107.9	133.7	148.9	152.0	170.2	419.5	899.7	848.1	837.4
82.5°	50.2	50.2	57.8	76.0	77.5	79.0	76.0	135.3	297.9	278.1	266.0
85°	19.8	19.8	21.3	25.8	25.8	27.4	27.4	35.0	31.9	30.4	28.9
87.5°	1.5	1.5	3.0	3.0	4.6	4.6	4.6	6.1	7.6	7.6	7.6
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°	1504.6	1504.6	1504.6	1504.6	1504.6	1504.6	1504.6	1504.6	1504.6	1504.6	1504.6
2.5°	1516.8	1510.7	1490.9	1486.4	1483.3	1478.8	1480.3	1469.7	1465.1	1466.6	1460.6
5°	1544.1	1533.5	1509.2	1498.5	1495.5	1490.9	1495.5	1487.9	1480.3	1483.3	1480.3
7.5°	1582.1	1566.9	1536.5	1525.9	1524.4	1519.8	1525.9	1519.8	1513.7	1516.8	1510.7
10°	1621.7	1601.9	1568.5	1557.8	1557.8	1556.3	1562.4	1553.3	1547.2	1548.7	1545.7
12.5°	1679.4	1653.6	1617.1	1608.0	1603.4	1608.0	1609.5	1597.3	1586.7	1588.2	1583.7
15°	1749.3	1720.4	1680.9	1667.2	1664.2	1662.7	1656.6	1641.4	1627.7	1626.2	1621.7
17.5°	1825.3	1788.8	1741.7	1728.0	1714.4	1709.8	1694.6	1674.8	1653.6	1653.6	1647.5
20°	1898.3	1857.2	1801.0	1781.2	1761.5	1743.2	1717.4	1685.5	1658.1	1653.6	1647.5
22.5°	1977.3	1928.7	1863.3	1834.4	1799.5	1763.0	1718.9	1676.4	1641.4	1633.8	1629.3
25°	2065.4	2004.6	1927.1	1884.6	1828.3	1772.1	1706.8	1652.0	1611.0	1598.9	1595.8
27.5°	2162.7	2089.8	1995.5	1933.2	1851.1	1763.0	1679.4	1614.1	1563.9	1548.7	1544.1
30°	2261.5	2174.9	2057.8	1966.7	1851.1	1734.1	1629.3	1553.3	1495.5	1474.2	1471.2
32.5°	2360.3	2263.0	2114.1	1984.9	1832.9	1685.5	1563.9	1474.2	1408.9	1383.0	1389.1
35°	2478.8	2360.3	2165.7	1992.5	1802.5	1626.2	1489.4	1384.6	1317.7	1294.9	1299.4
37.5°	2601.9	2457.6	2206.8	1986.4	1760.0	1559.3	1405.8	1304.0	1220.4	1180.9	1185.5
40°	2708.3	2545.7	2235.7	1965.1	1705.2	1483.3	1323.8	1190.0	1074.5	1036.5	1032.0
42.5°	2808.6	2611.1	2250.9	1933.2	1642.9	1395.2	1206.7	1035.0	919.5	872.4	873.9
45°	2913.5	2674.9	2244.8	1890.7	1565.4	1291.9	1056.3	883.0	781.2	738.6	740.2
47.5°	3033.6	2743.3	2238.7	1845.1	1471.2	1158.1	911.9	749.3	661.1	630.7	627.7
50°	3161.2	2819.3	2231.1	1788.8	1366.3	1009.2	769.0	624.6	550.2	530.4	525.9
52.5°	3305.6	2901.3	2226.5	1722.0	1240.2	851.1	641.4	515.2	465.1	451.4	449.9
55°	3478.9	2997.1	2232.6	1641.4	1088.2	702.2	533.5	443.8	410.4	402.8	401.2
57.5°	3690.1	3120.2	2250.9	1547.2	928.6	573.0	454.4	399.7	378.4	372.4	372.4
60°	3919.6	3260.0	2284.3	1440.8	769.0	472.7	402.8	364.8	355.6	363.2	363.2
62.5°	4167.4	3424.2	2343.6	1311.6	620.1	399.7	361.7	335.9	329.8	345.0	346.5
65°	4396.9	3583.7	2381.6	1156.6	492.4	346.5	329.8	307.0	310.0	325.2	323.7
67.5°	4538.2	3716.0	2328.4	962.0	390.6	307.0	296.4	276.6	284.2	296.4	297.9
70°	4451.6	3641.5	2065.4	726.5	305.5	267.5	259.9	247.7	253.8	269.0	275.1
72.5°	4027.5	3261.5	1606.5	490.9	246.2	224.9	228.0	221.9	229.5	243.2	256.9
75°	3269.1	2465.2	1077.6	314.6	194.5	191.5	196.1	191.5	194.5	208.2	215.8
77.5°	1706.8	1202.2	536.5	196.1	144.4	148.9	156.5	158.1	167.2	170.2	173.3
80°	796.4	541.1	223.4	109.4	95.7	104.9	120.1	121.6	124.6	129.2	130.7
82.5°	259.9	162.6	103.3	59.3	54.7	59.3	77.5	92.7	94.2	103.3	103.3
85°	27.4	16.7	22.8	24.3	21.3	25.8	35.0	33.4	15.2	9.1	9.1
87.5°	7.6	6.1	7.6	7.6	6.1	6.1	4.6	1.5	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)