

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: P1210331

Luminaire Tested: **ARCH2-90-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-90-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 695mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

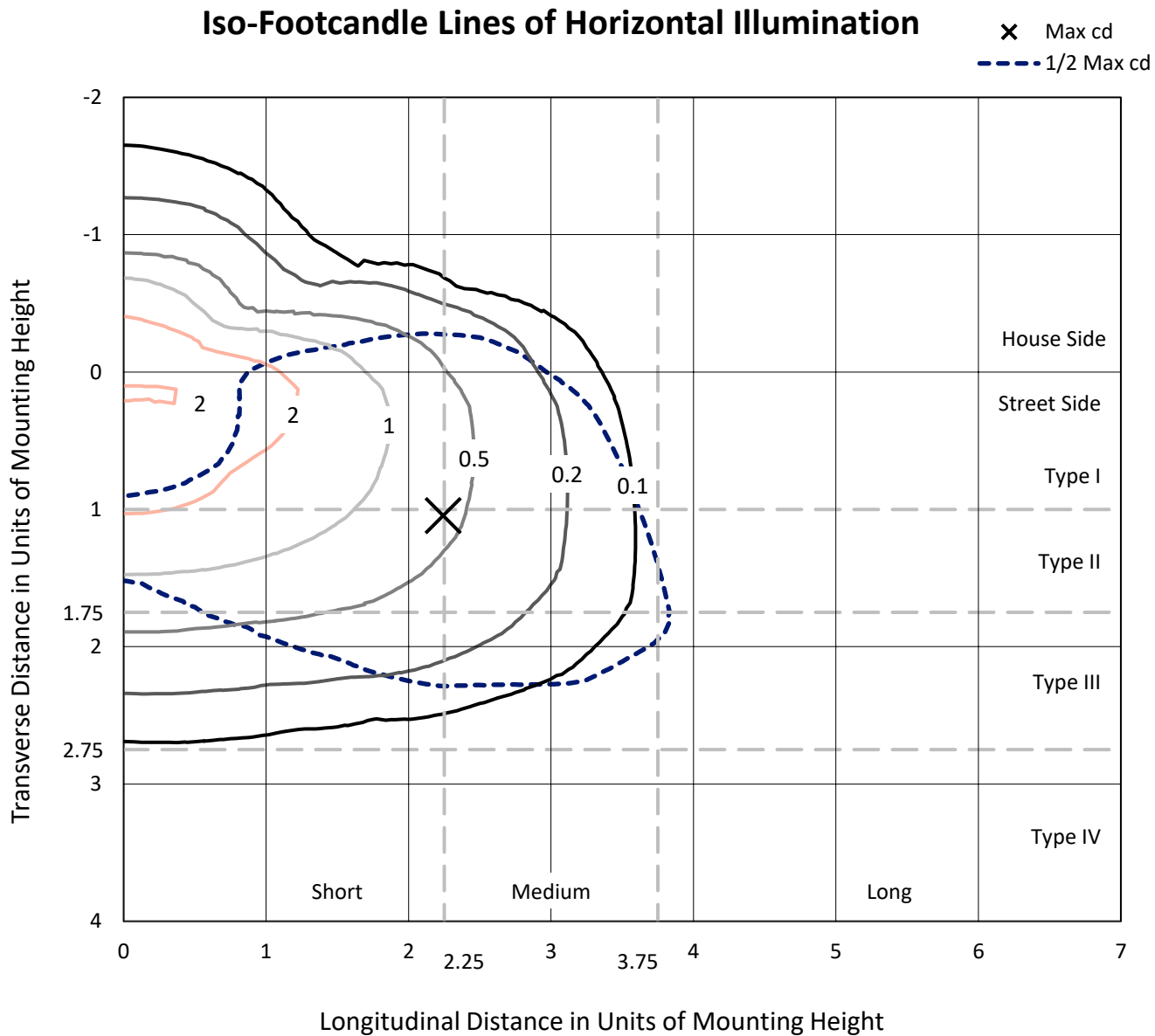
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11587 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 93.7
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

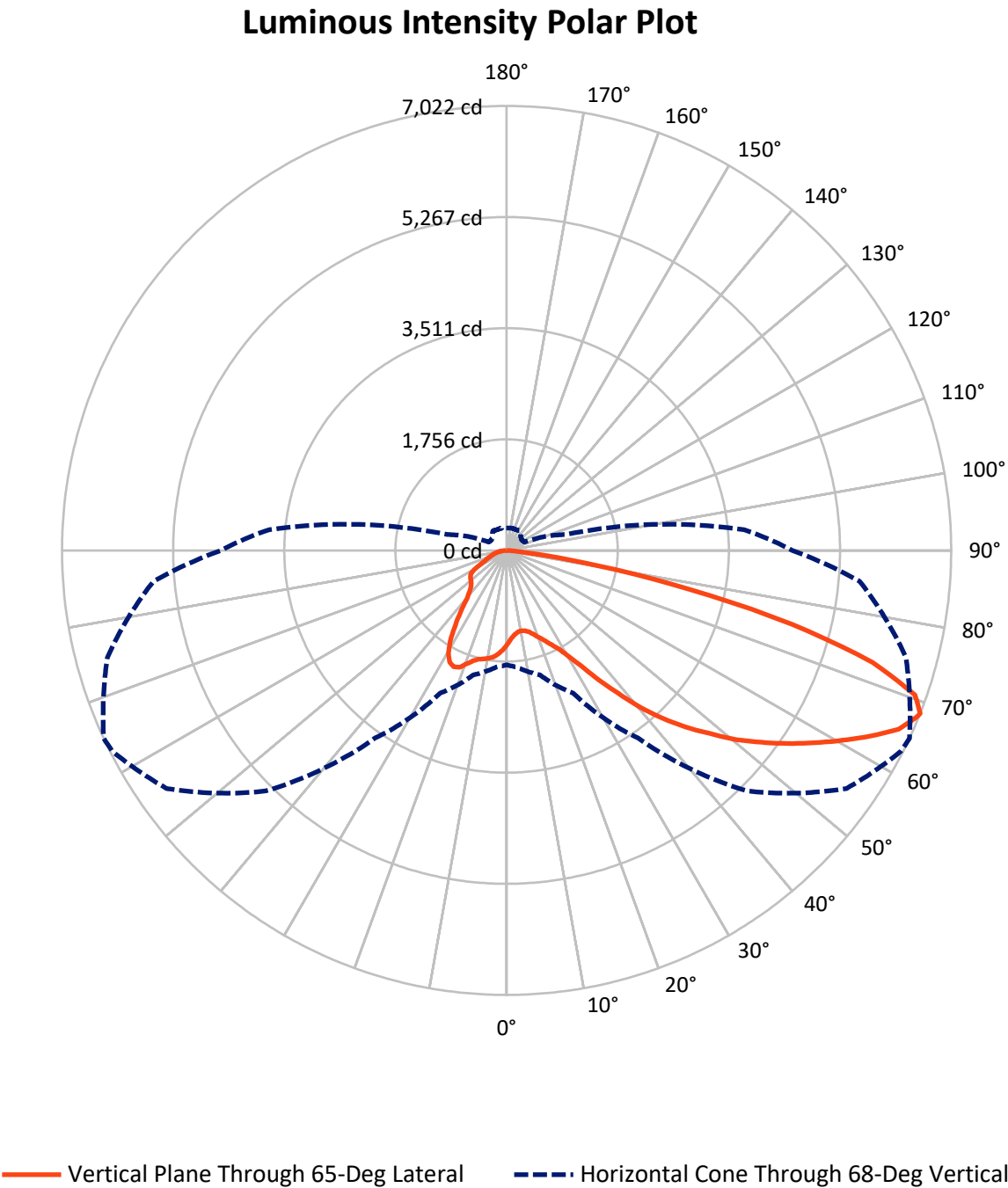


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Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2840.8	0.0	2840.8
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	8746.2	0.0	8746.2
	% Fixture	75.5	0.0	75.5
Total	Lumens	11587.0	0.0	11587.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.5	1.2
10°-20°	460.7	4.0
20°-30°	833.9	7.2
30°-40°	1311.8	11.3
40°-50°	1953.8	16.9
50°-60°	2563.0	22.1
60°-70°	2802.9	24.2
70°-80°	1386.9	12.0
80°-90°	132.3	1.1
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°	11587.0	100.0
0°-180°	11587.0	100.0

Coefficient of Utilization



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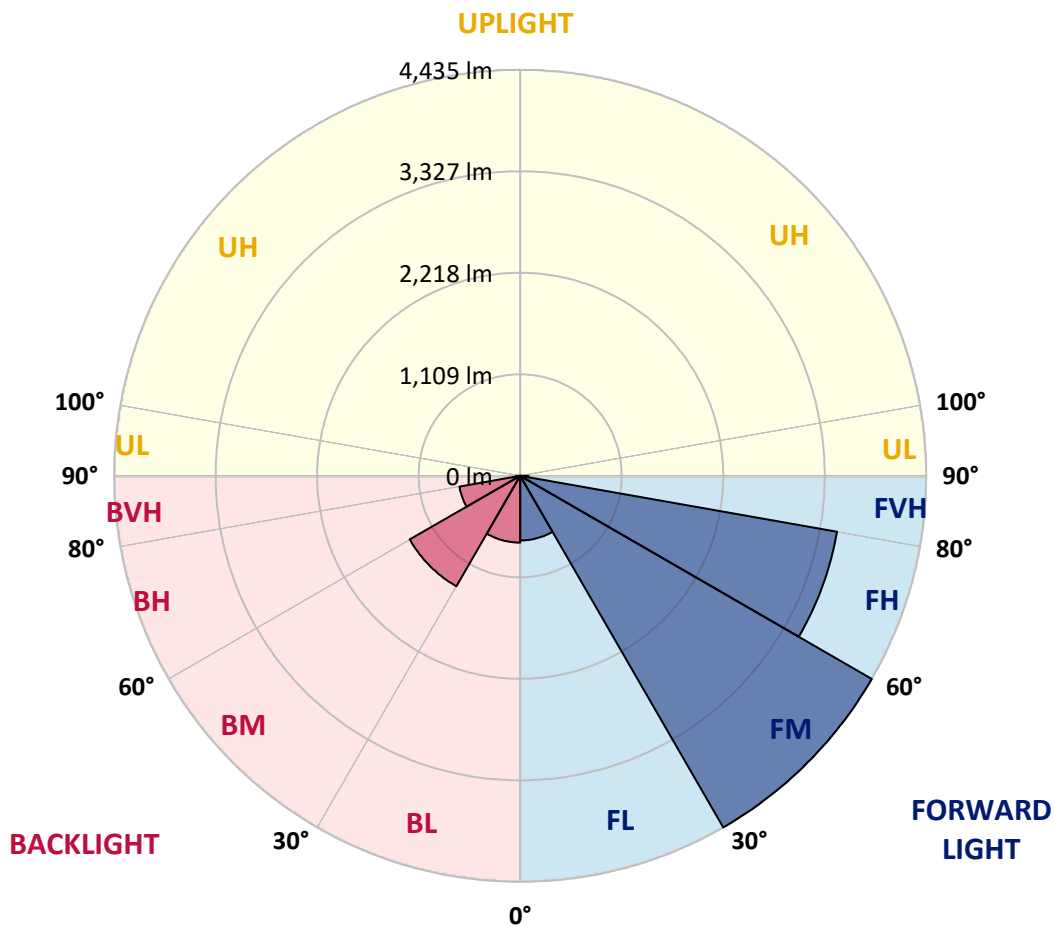
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	706.4	6.1			
FM	(30°-60°)	4435.3	38.3			
FH	(60°-80°)	3515.5	30.3			G2/5000
FVH	(80°-90°)	89.0	0.8			G1/100
BL	(0°-30°)	729.8	6.3	B2/1000		
BM	(30°-60°)	1393.4	12.0	B2/2500		
BH	(60°-80°)	674.3	5.8	B2/1000		G2/1000
BVH	(80°-90°)	43.3	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1480.7	1480.7	1480.7	1480.7	1480.7	1480.7	1480.7	1480.7	1480.7	1480.7	1480.7
2.5°	1292.4	1289.4	1296.9	1304.4	1320.8	1340.2	1367.1	1389.5	1392.5	1434.4	1467.2
5°	1216.2	1211.7	1219.2	1228.2	1235.6	1259.5	1287.9	1320.8	1334.3	1395.5	1465.7
7.5°	1223.7	1222.2	1225.2	1222.2	1222.2	1232.7	1252.1	1284.9	1299.9	1373.1	1473.2
10°	1267.0	1270.0	1271.5	1262.5	1253.6	1249.1	1255.1	1277.5	1287.9	1374.6	1506.1
12.5°	1338.7	1343.2	1344.7	1328.3	1316.3	1296.9	1286.4	1295.4	1302.9	1389.5	1552.4
15°	1435.9	1438.8	1428.4	1417.9	1388.0	1364.1	1338.7	1331.3	1334.3	1420.9	1604.7
17.5°	1549.4	1544.9	1544.9	1519.5	1480.7	1443.3	1401.5	1395.5	1395.5	1471.7	1679.4
20°	1673.4	1677.9	1664.5	1630.1	1591.2	1533.0	1491.1	1464.2	1467.2	1530.0	1770.5
22.5°	1852.7	1860.2	1824.3	1775.0	1715.3	1648.0	1588.3	1544.9	1546.4	1606.2	1864.7
25°	2045.5	2048.4	2026.0	1960.3	1879.6	1784.0	1704.8	1649.5	1648.0	1691.3	1985.7
27.5°	2242.7	2256.1	2211.3	2148.6	2073.8	1954.3	1849.7	1775.0	1763.1	1821.3	2136.6
30°	2445.9	2462.3	2419.0	2357.7	2265.1	2163.5	2039.5	1952.8	1945.4	2023.0	2338.3
32.5°	2650.6	2655.1	2620.7	2569.9	2486.2	2390.6	2290.5	2194.9	2187.4	2314.4	2599.8
35°	2817.9	2831.4	2807.5	2795.5	2734.2	2646.1	2549.0	2493.7	2513.1	2676.0	2938.9
37.5°	3019.6	3033.1	3006.2	3003.2	2983.8	2907.6	2840.3	2844.8	2864.2	3085.4	3296.0
40°	3311.0	3325.9	3257.2	3227.3	3227.3	3152.6	3130.2	3236.3	3261.7	3488.8	3668.1
42.5°	3557.5	3581.4	3541.1	3521.7	3463.4	3411.1	3438.0	3587.4	3630.7	3874.3	3992.3
45°	3677.0	3695.0	3742.8	3799.6	3742.8	3651.6	3753.2	3922.1	3983.3	4229.9	4316.5
47.5°	3741.3	3757.7	3813.0	3965.4	4004.3	3928.1	4071.5	4282.2	4324.0	4582.5	4625.8
50°	3750.3	3802.5	3874.3	4026.7	4204.5	4214.9	4391.2	4648.2	4697.5	4929.1	4897.7
52.5°	3677.0	3698.0	3845.9	4102.9	4300.1	4479.4	4739.4	4999.3	5035.2	5254.8	5138.3
55°	3557.5	3587.4	3735.3	4084.9	4392.7	4730.4	5093.5	5344.5	5384.8	5571.6	5360.9
57.5°	3449.9	3464.9	3623.3	4032.6	4485.4	4981.4	5408.7	5704.6	5731.5	5849.5	5525.3
60°	3330.4	3346.8	3505.2	3920.6	4554.1	5171.2	5737.4	6067.6	6091.5	6142.3	5716.5
62.5°	3021.1	3064.5	3263.2	3735.3	4536.2	5387.8	6088.6	6426.2	6456.1	6400.8	5867.4
65°	2453.4	2514.6	2758.2	3315.5	4368.8	5528.3	6375.4	6756.4	6807.2	6595.1	5907.8
67.5°	1905.0	1948.3	2144.1	2631.2	3781.6	5458.0	6560.7	6983.5	6998.5	6563.7	5683.7
68°	1806.4	1849.7	2036.5	2487.7	3618.8	5374.4	6556.2	6989.5	7022.4	6529.3	5597.0
70°	1382.1	1431.4	1609.2	1970.8	2916.5	4842.5	6282.8	6846.1	6841.6	6114.0	5059.1
72.5°	863.6	892.0	1014.5	1243.1	1928.9	3684.5	5332.5	6037.8	6049.7	4984.4	3880.2
75°	548.3	548.3	542.4	602.1	989.1	2099.2	3963.9	4648.2	4657.2	3490.3	2445.9
77.5°	476.6	463.2	398.9	337.7	394.4	815.8	2345.8	3001.7	2952.4	1879.6	1160.9
80°	401.9	379.5	327.2	271.9	254.0	255.5	901.0	1524.0	1458.3	676.8	385.5
82.5°	289.9	270.4	246.5	213.7	195.7	152.4	188.3	440.8	430.3	195.7	125.5
85°	156.9	141.9	139.0	140.4	118.0	94.1	79.2	97.1	97.1	85.2	71.7
87.5°	55.3	40.3	47.8	53.8	46.3	38.8	31.4	37.4	38.8	37.4	34.4
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°	1480.7	1480.7	1480.7	1480.7	1480.7	1480.7	1480.7	1480.7	1480.7	1480.7	1480.7
2.5°	1486.7	1501.6	1537.5	1568.8	1591.2	1610.7	1621.1	1625.6	1636.1	1637.6	1634.6
5°	1498.6	1537.5	1591.2	1637.6	1663.0	1673.4	1676.4	1677.9	1673.4	1676.4	1673.4
7.5°	1530.0	1579.3	1655.5	1695.8	1700.3	1683.9	1685.4	1679.4	1685.4	1691.3	1691.3
10°	1577.8	1640.5	1712.3	1727.2	1707.8	1698.8	1716.7	1752.6	1764.6	1781.0	1781.0
12.5°	1640.5	1715.3	1766.1	1752.6	1734.7	1764.6	1816.9	1852.7	1864.7	1870.6	1866.2
15°	1712.3	1792.9	1818.3	1773.5	1806.4	1870.6	1888.6	1867.7	1837.8	1824.3	1831.8
17.5°	1803.4	1870.6	1855.7	1825.8	1900.5	1909.5	1851.2	1784.0	1736.2	1718.2	1730.2
20°	1899.0	1957.3	1888.6	1902.0	1948.3	1852.7	1742.1	1655.5	1613.7	1606.2	1618.1
22.5°	2000.6	2038.0	1921.4	1990.2	1921.4	1727.2	1594.2	1549.4	1538.9	1550.9	1561.4
25°	2115.7	2111.2	1978.2	2017.1	1821.3	1573.3	1494.1	1491.1	1491.1	1498.6	1513.5
27.5°	2245.7	2175.4	2035.0	1981.2	1648.0	1446.3	1431.4	1432.9	1428.4	1429.9	1437.3
30°	2396.6	2262.1	2097.8	1863.2	1453.8	1350.7	1344.7	1340.2	1329.8	1326.8	1329.8
32.5°	2586.3	2353.2	2162.0	1668.9	1283.5	1252.1	1249.1	1225.2	1199.8	1196.8	1207.3
35°	2826.9	2519.1	2194.9	1425.4	1143.0	1141.5	1131.1	1093.7	1060.8	1060.8	1053.4
37.5°	3101.8	2732.8	2208.3	1187.8	1026.5	1033.9	1004.1	956.2	930.8	915.9	920.4
40°	3382.7	2976.3	2206.8	980.1	924.9	926.4	903.9	845.7	782.9	745.6	754.5
42.5°	3653.1	3197.4	2168.0	869.6	842.7	838.2	820.3	741.1	688.8	658.9	660.4
45°	3869.8	3426.0	2108.2	803.8	768.0	775.5	735.1	687.3	639.5	612.6	611.1
47.5°	4086.4	3599.3	2012.6	763.5	712.7	699.3	682.8	649.9	614.1	584.2	585.7
50°	4283.7	3747.3	1922.9	736.6	661.9	627.5	630.5	611.1	579.7	552.8	551.3
52.5°	4422.6	3844.4	1873.6	721.7	600.6	563.3	573.7	563.3	533.4	514.0	512.5
55°	4561.6	3919.1	1890.1	702.2	533.4	503.5	521.4	518.5	502.0	496.0	497.5
57.5°	4673.6	3975.9	1948.3	666.4	469.2	451.2	481.1	472.1	460.2	461.7	461.7
60°	4782.7	4049.1	2017.1	584.2	413.9	415.4	443.8	427.3	419.8	433.3	434.8
62.5°	4896.2	4128.3	1960.3	464.7	366.1	376.5	409.4	395.9	398.9	418.4	424.3
65°	4882.8	4120.8	1597.2	381.0	324.2	345.1	394.4	390.0	391.5	398.9	401.9
67.5°	4607.9	3857.8	1098.2	324.2	294.3	319.7	382.5	364.6	366.1	361.6	363.1
68°	4515.2	3765.2	968.2	315.3	288.4	313.8	376.5	360.1	361.6	357.1	355.6
70°	4010.2	3224.3	612.6	277.9	267.4	297.3	346.6	340.7	339.2	336.2	336.2
72.5°	3057.0	2380.1	322.7	240.6	243.5	271.9	309.3	321.2	313.8	315.3	324.2
75°	2024.5	1431.4	224.1	206.2	213.7	233.1	274.9	298.8	291.4	295.8	291.4
77.5°	1071.3	771.0	179.3	174.8	174.8	188.3	227.1	264.5	264.5	261.5	257.0
80°	351.1	271.9	143.4	137.5	140.4	147.9	182.3	216.6	221.1	215.2	212.2
82.5°	118.0	125.5	107.6	100.1	103.1	109.1	137.5	165.8	167.3	155.4	152.4
85°	73.2	83.7	67.2	65.7	65.7	67.2	83.7	91.1	83.7	74.7	77.7
87.5°	34.4	41.8	31.4	26.9	22.4	19.4	14.9	6.0	6.0	3.0	3.0
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)