

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: P198687

Luminaire Tested: **XNV2-AF-02-LED-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198687
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24161)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV2-AF-02-LED-U-RW
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12605.8 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 111
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: 28.75 FT

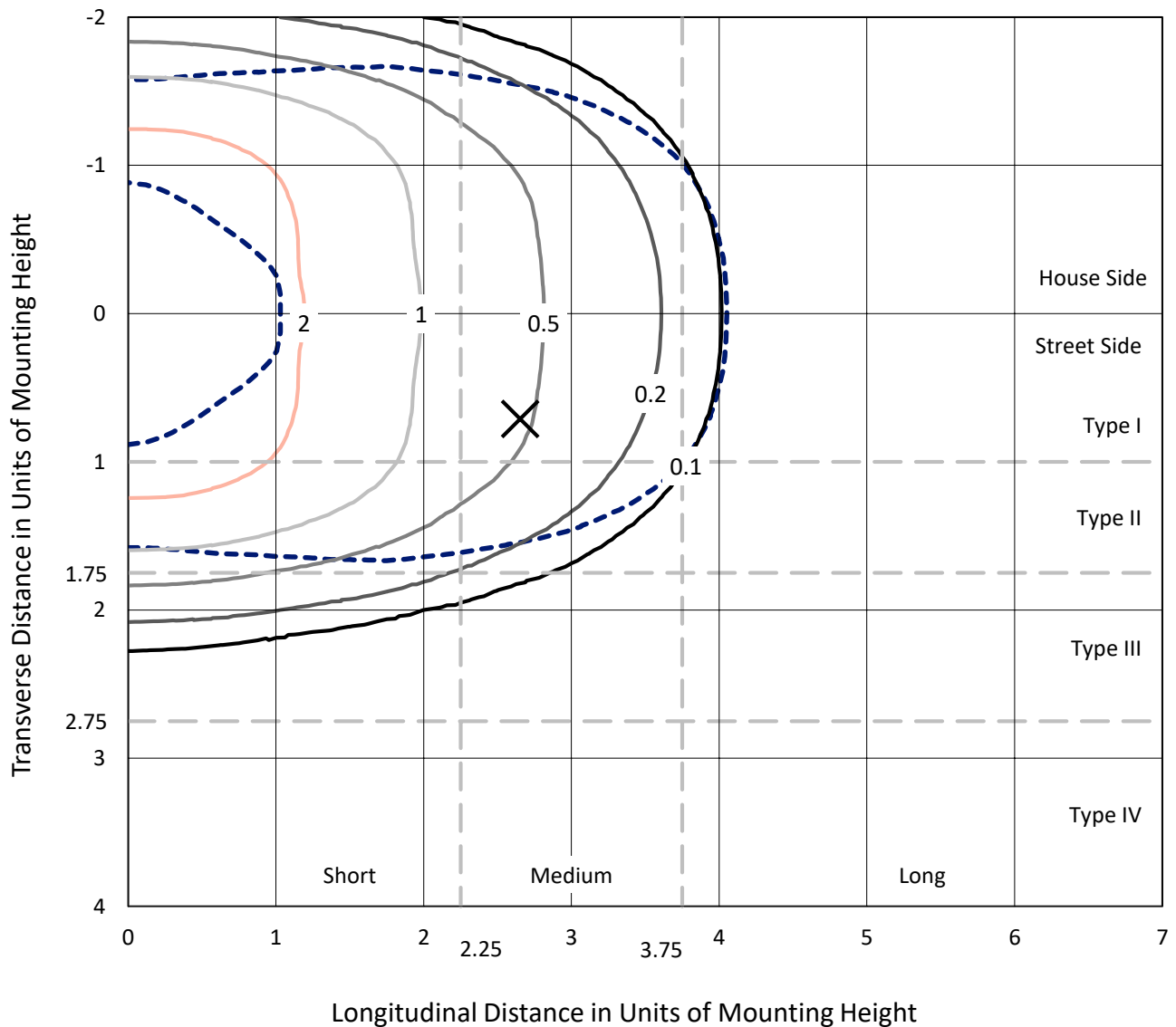


REPORT NUMBER: P198687

CATALOG NUMBER: XNV2-AF-02-LED-U-RW

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

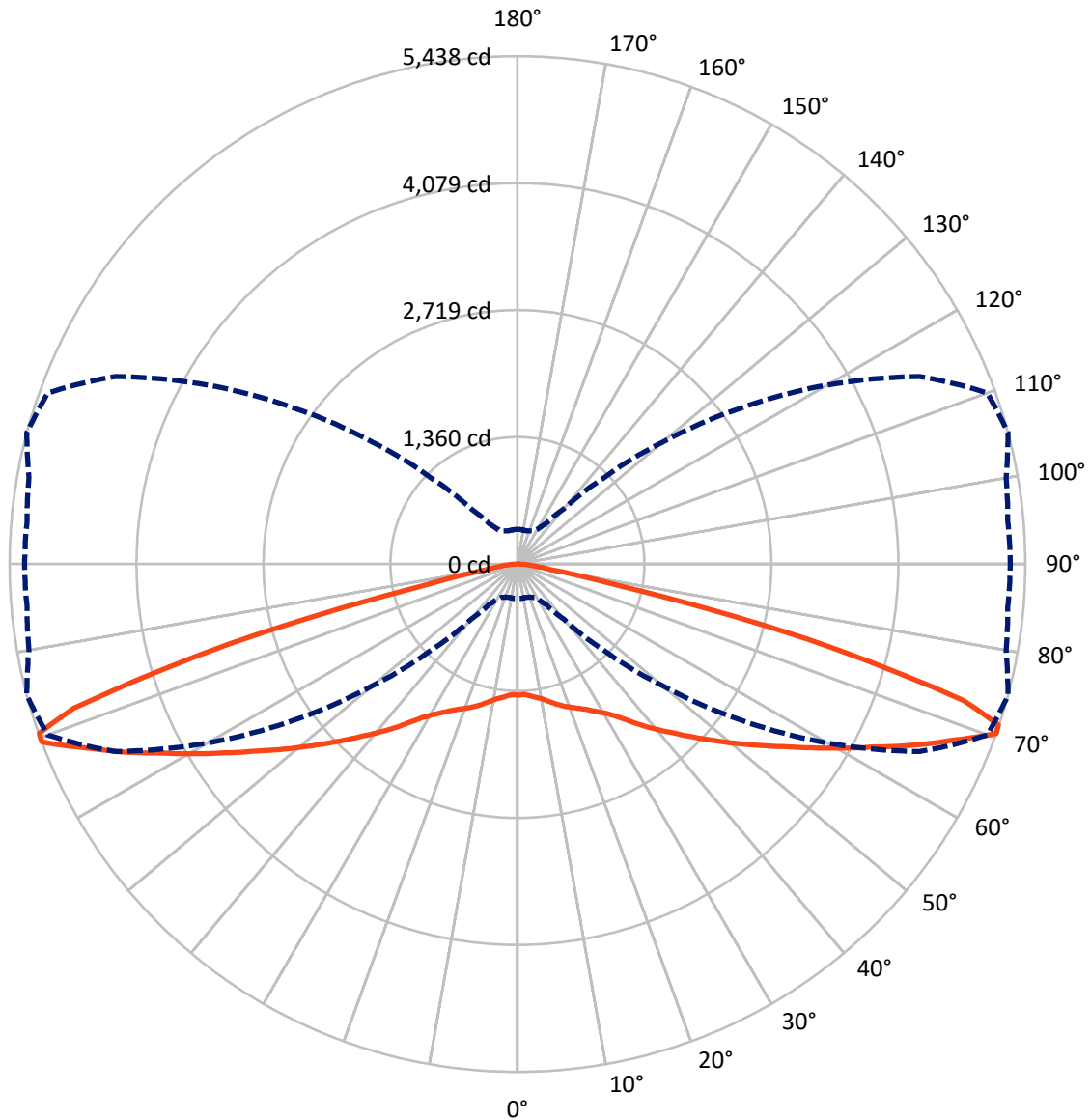


Based on 20 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Medium - Full Cutoff

REPORT NUMBER: P198687

CATALOG NUMBER: XNV2-AF-02-LED-U-RW

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P198687

CATALOG NUMBER: XNV2-AF-02-LED-U-RW

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6302.9	0.0	6302.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6302.9	0.0	6302.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	12605.8	0.0	12605.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.6	1.1
10°-20°	417.6	3.3
20°-30°	784.3	6.2
30°-40°	1381.6	11.0
40°-50°	2289.7	18.2
50°-60°	3185.3	25.3
60°-70°	3007.0	23.9
70°-80°	1284.3	10.2
80°-90°	121.4	1.0
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°	12605.8	100.0
0°-180°	12605.8	100.0



REPORT NUMBER: P198687

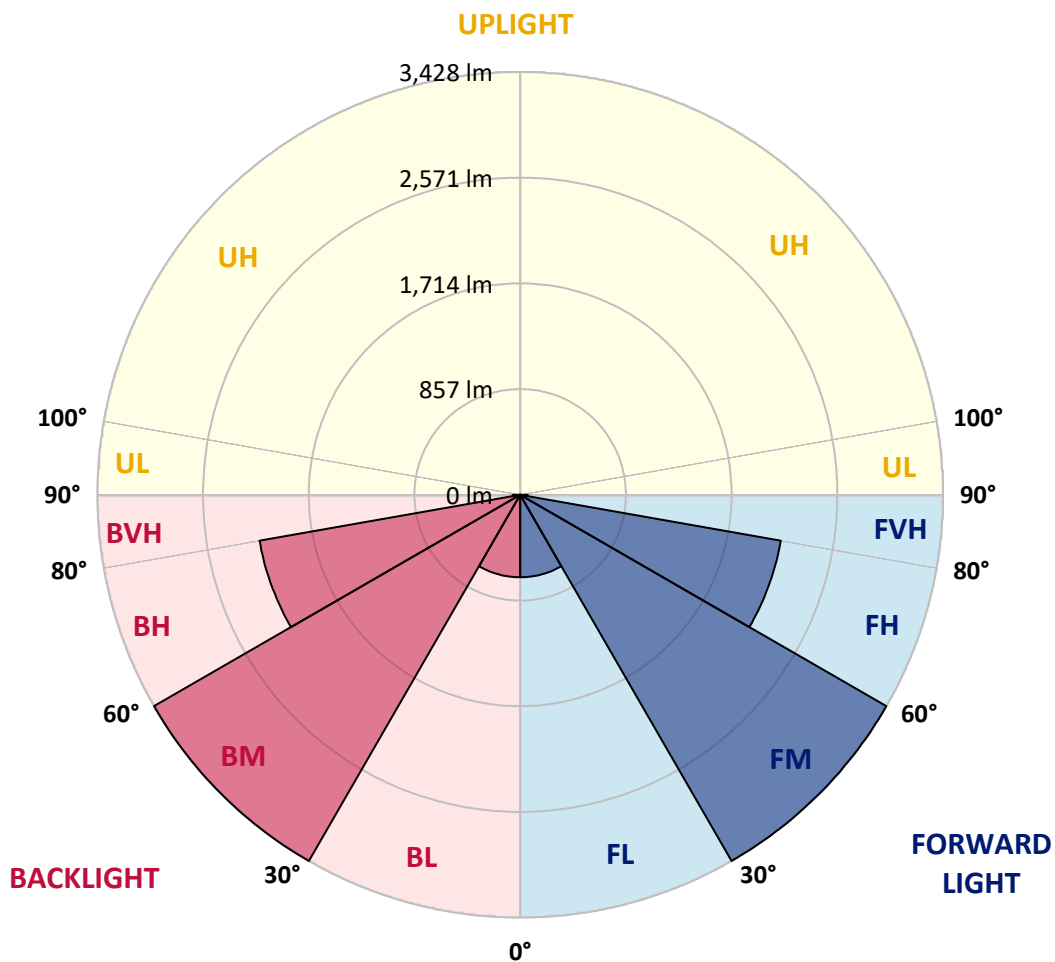
CATALOG NUMBER: XNV2-AF-02-LED-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	668.3	5.3			
FM	(30°-60°)	3428.3	27.2			
FH	(60°-80°)	2145.7	17.0			G2/5000
FVH	(80°-90°)	60.7	0.5			G1/100
BL	(0°-30°)	668.3	5.3	B2/1000		
BM	(30°-60°)	3428.3	27.2	B3/5000		
BH	(60°-80°)	2145.7	17.0	B3/2500		G2/5000
BVH	(80°-90°)	60.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Medium





REPORT NUMBER: P198687

CATALOG NUMBER: XNV2-AF-02-LED-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1403.8	1403.8	1403.8	1403.8	1403.8	1403.8	1403.8	1403.8	1403.8	1403.8	1403.8
2.5°	1412.5	1411.7	1412.5	1410.1	1410.9	1410.1	1410.1	1407.0	1407.0	1405.3	1403.0
5°	1396.6	1398.3	1398.3	1398.3	1400.6	1400.6	1403.8	1404.6	1407.0	1409.3	1410.9
7.5°	1370.7	1371.4	1373.7	1375.4	1380.1	1386.4	1392.7	1399.8	1406.1	1414.0	1422.7
10°	1348.5	1350.1	1354.0	1358.0	1366.7	1374.5	1385.6	1396.6	1407.7	1421.2	1434.6
12.5°	1336.6	1339.0	1345.3	1351.6	1365.0	1375.4	1390.4	1407.7	1422.7	1435.4	1450.3
15°	1338.2	1339.0	1347.7	1356.4	1375.4	1389.6	1410.9	1431.4	1449.6	1463.8	1481.2
17.5°	1361.1	1362.7	1371.4	1384.1	1402.2	1420.4	1443.3	1464.6	1489.1	1505.7	1526.2
20°	1406.1	1408.5	1418.0	1431.4	1451.2	1470.2	1493.8	1515.9	1541.3	1561.0	1581.5
22.5°	1464.6	1468.5	1478.8	1495.5	1515.2	1538.1	1562.6	1585.5	1609.2	1628.9	1646.3
25°	1542.8	1547.5	1558.6	1575.2	1595.0	1619.4	1644.7	1668.4	1692.9	1707.9	1722.1
27.5°	1647.9	1655.7	1667.6	1681.0	1698.4	1724.5	1748.2	1768.0	1791.7	1808.3	1817.7
30°	1789.2	1800.4	1809.8	1824.0	1836.7	1864.3	1883.3	1899.1	1917.2	1926.7	1929.1
32.5°	1962.3	1972.6	1982.1	1992.3	2009.7	2035.0	2053.2	2061.9	2071.3	2069.7	2061.0
35°	2157.4	2165.3	2170.8	2189.0	2217.5	2234.0	2247.4	2250.6	2252.2	2235.7	2219.0
37.5°	2362.8	2372.3	2377.0	2405.5	2432.4	2451.3	2457.6	2464.7	2460.0	2432.4	2402.3
40°	2584.8	2595.0	2609.2	2633.8	2665.4	2683.5	2691.5	2690.7	2686.7	2654.4	2605.4
42.5°	2802.8	2815.5	2827.3	2870.0	2896.1	2926.9	2930.8	2930.0	2921.3	2884.2	2827.3
45°	2987.6	3002.7	3027.2	3074.6	3116.4	3153.6	3168.6	3174.1	3165.4	3125.9	3061.2
47.5°	3140.2	3150.4	3181.2	3238.9	3292.6	3347.1	3377.2	3398.4	3397.6	3369.2	3300.6
50°	3244.4	3256.3	3294.2	3359.0	3426.1	3490.1	3549.3	3597.5	3620.4	3599.9	3535.9
52.5°	3274.5	3289.4	3339.2	3416.7	3494.8	3580.9	3669.4	3754.7	3806.1	3818.8	3769.0
55°	3148.0	3164.6	3237.3	3344.7	3473.5	3600.7	3735.0	3856.6	3962.5	4011.5	3991.8
57.5°	2779.9	2791.7	2884.2	3023.2	3207.3	3430.9	3656.7	3879.5	4061.2	4188.5	4210.6
60°	2198.5	2213.5	2314.6	2461.5	2670.9	2953.7	3269.7	3634.6	3990.9	4282.5	4427.0
62.5°	1483.6	1493.8	1591.0	1725.3	1954.3	2227.0	2579.3	3041.4	3549.3	4069.9	4477.6
65°	778.9	778.9	844.4	938.5	1120.9	1365.0	1726.1	2200.1	2804.4	3454.5	4136.3
67.5°	451.8	451.1	466.1	487.4	545.1	643.8	842.9	1191.3	1763.3	2520.0	3295.7
70°	372.9	370.5	368.2	368.2	376.9	391.8	429.7	525.3	768.6	1299.5	2027.9
71°	356.3	354.7	348.4	346.0	350.0	357.8	374.4	418.7	545.8	886.4	1514.4
72.5°	336.6	332.6	323.0	319.2	320.0	323.0	327.9	345.2	383.9	504.0	863.5
75°	306.5	297.1	285.2	279.7	277.3	276.5	276.5	281.2	289.9	304.1	353.9
77.5°	271.8	258.3	245.7	240.2	236.2	233.8	232.2	229.1	227.5	233.8	252.0
80°	229.9	215.6	205.4	202.2	199.9	195.1	188.8	182.5	178.5	181.7	192.7
82.5°	177.8	163.6	165.1	165.9	161.9	154.1	147.7	140.7	133.5	132.0	137.5
85°	141.4	134.3	129.5	139.8	131.1	121.6	112.9	101.1	84.5	69.6	75.8
87.5°	60.9	61.6	88.5	133.5	116.9	94.0	78.3	63.2	40.3	30.0	30.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P198687

CATALOG NUMBER: XNV2-AF-02-LED-U-RW

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1403.8	1403.8	1403.8	1403.8	1403.8	1403.8	1403.8	1403.8
2.5°	1402.2	1402.2	1399.8	1398.3	1398.3	1398.3	1396.6	1397.5
5°	1411.7	1413.3	1414.8	1414.0	1416.4	1418.8	1418.0	1417.2
7.5°	1427.5	1432.2	1436.9	1439.3	1442.5	1445.6	1446.5	1444.1
10°	1443.3	1452.8	1459.9	1466.2	1470.2	1473.3	1475.7	1474.9
12.5°	1463.0	1476.4	1489.1	1501.7	1510.4	1515.2	1519.9	1518.4
15°	1495.5	1510.4	1526.2	1542.8	1556.2	1563.4	1570.4	1568.9
17.5°	1539.6	1553.0	1565.7	1582.3	1598.9	1606.9	1614.7	1613.9
20°	1595.0	1605.2	1612.4	1621.8	1637.6	1646.3	1653.4	1651.0
22.5°	1658.2	1661.3	1662.1	1665.3	1677.9	1688.2	1697.7	1700.0
25°	1726.8	1724.5	1719.8	1717.4	1726.1	1737.2	1749.0	1752.1
27.5°	1812.2	1804.3	1792.4	1783.0	1785.4	1799.6	1813.0	1816.1
30°	1919.7	1901.5	1876.2	1858.0	1854.8	1869.9	1884.1	1888.8
32.5°	2042.1	2017.6	1982.8	1955.2	1943.3	1956.8	1969.4	1976.5
35°	2187.5	2160.6	2118.7	2083.1	2064.2	2072.9	2095.0	2102.9
37.5°	2359.6	2322.5	2275.9	2230.9	2199.2	2200.9	2224.6	2234.0
40°	2550.0	2496.3	2437.1	2381.0	2335.2	2332.0	2353.3	2360.5
42.5°	2748.4	2679.6	2610.1	2536.6	2479.7	2469.4	2497.1	2497.9
45°	2961.6	2873.2	2787.0	2701.7	2642.5	2624.3	2651.2	2654.4
47.5°	3189.2	3078.6	2976.6	2884.2	2820.2	2791.7	2817.8	2822.5
50°	3426.1	3311.6	3193.0	3090.3	3015.4	2980.6	3011.4	3014.5
52.5°	3660.7	3552.5	3434.8	3317.1	3226.3	3186.8	3223.1	3234.2
55°	3896.9	3792.7	3682.1	3564.4	3449.8	3415.0	3454.5	3466.4
57.5°	4142.6	4042.3	3941.9	3823.5	3712.1	3659.2	3701.9	3718.4
60°	4413.6	4325.1	4230.3	4111.0	4001.2	3939.6	3975.9	3994.9
62.5°	4679.8	4661.6	4575.6	4451.5	4312.5	4250.9	4281.7	4295.1
65°	4701.9	4996.6	4992.6	4869.3	4675.1	4571.6	4580.3	4586.6
67.5°	4103.9	4780.1	5212.2	5250.9	5034.5	4872.5	4853.6	4857.6
70°	2905.5	3833.7	4750.9	5352.9	5438.2	5312.6	5271.5	5277.8
71°	2328.0	3289.4	4299.1	5108.7	5431.9	5395.6	5372.6	5389.2
72.5°	1485.9	2423.7	3406.3	4374.9	4995.0	5172.8	5198.8	5209.1
75°	539.5	1042.8	1764.8	2528.7	3204.9	3670.2	3926.2	3946.7
77.5°	289.9	373.7	577.5	862.7	1083.8	1202.4	1216.6	1222.1
80°	213.3	247.2	282.8	323.0	348.4	353.1	344.4	326.2
82.5°	150.9	170.6	184.8	199.1	209.3	200.7	166.6	127.2
85°	87.7	96.4	104.2	111.4	112.9	106.7	70.3	57.7
87.5°	34.8	38.0	37.1	41.8	40.3	37.1	27.6	23.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)