

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: P198555

Luminaire Tested: **XNV2-AF-02-LED-U-SL3-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198555  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24262)  
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-SL3-7030-600  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7024 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 66  
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

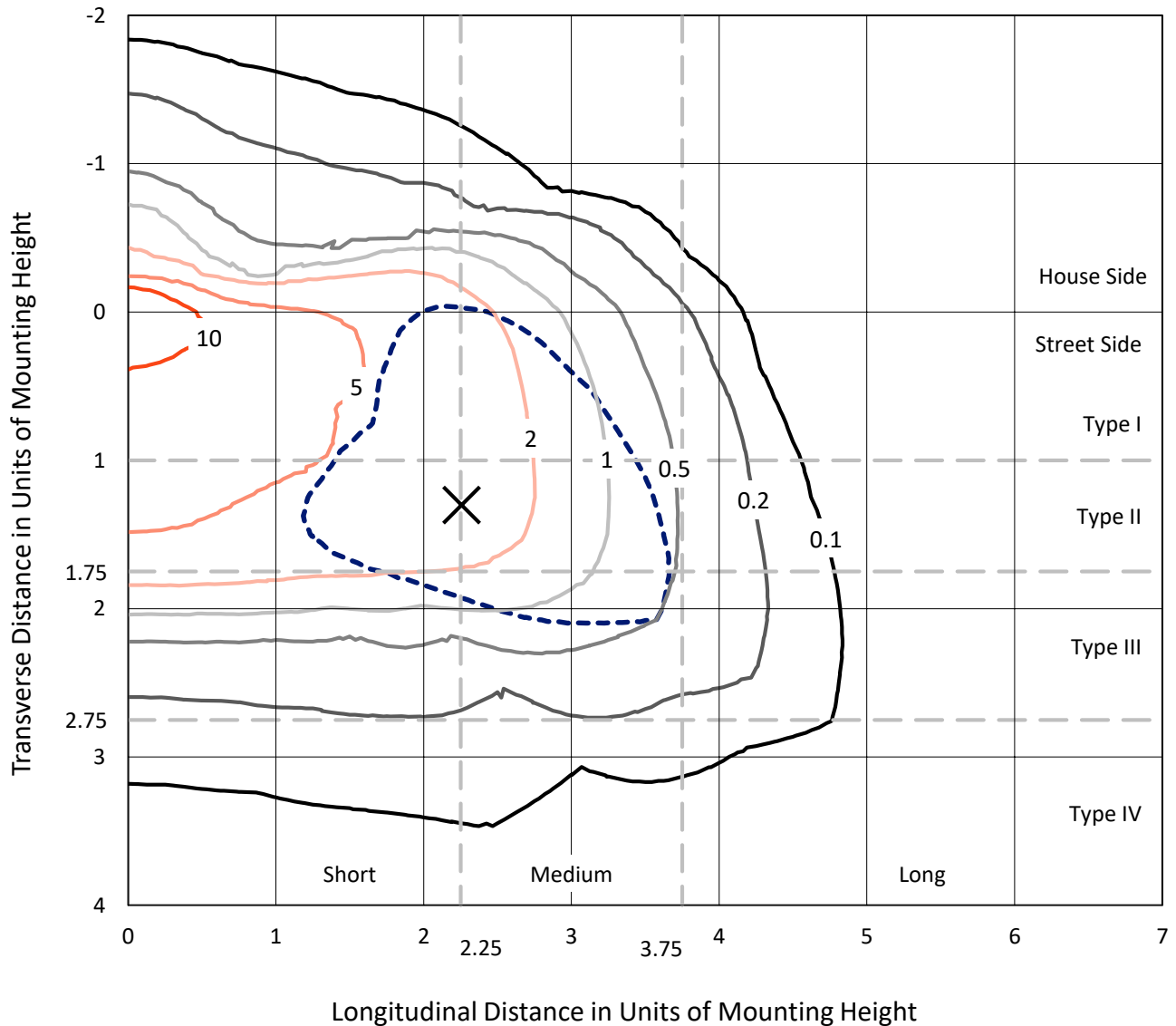


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

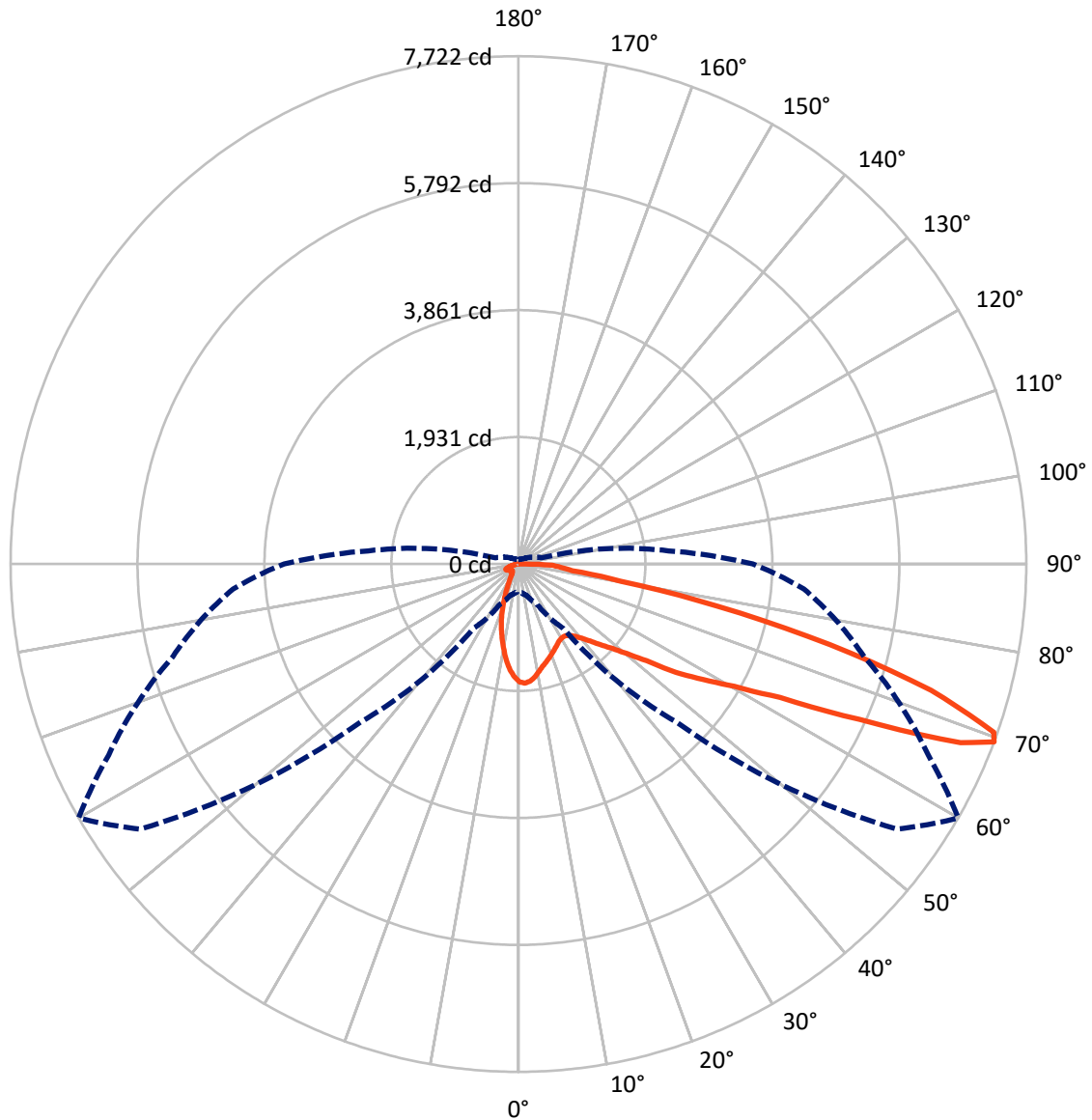


Based on 10 foot mounting height. Maximum calculated value = 17.9 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1001.8	0.0	1001.8
	% Fixture	14.3	0.0	14.3
<b>Street Side</b>	Lumens	6022.1	0.0	6022.1
	% Fixture	85.7	0.0	85.7
<b>Total</b>	Lumens	7024.0	0.0	7024.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.0	2.2
10°-20°	325.5	4.6
20°-30°	415.3	5.9
30°-40°	571.5	8.1
40°-50°	925.7	13.2
50°-60°	1452.8	20.7
60°-70°	1936.8	27.6
70°-80°	1077.3	15.3
80°-90°	167.1	2.4
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°	7024.0	100.0
0°-180°	7024.0	100.0

**Coefficient of Utilization**



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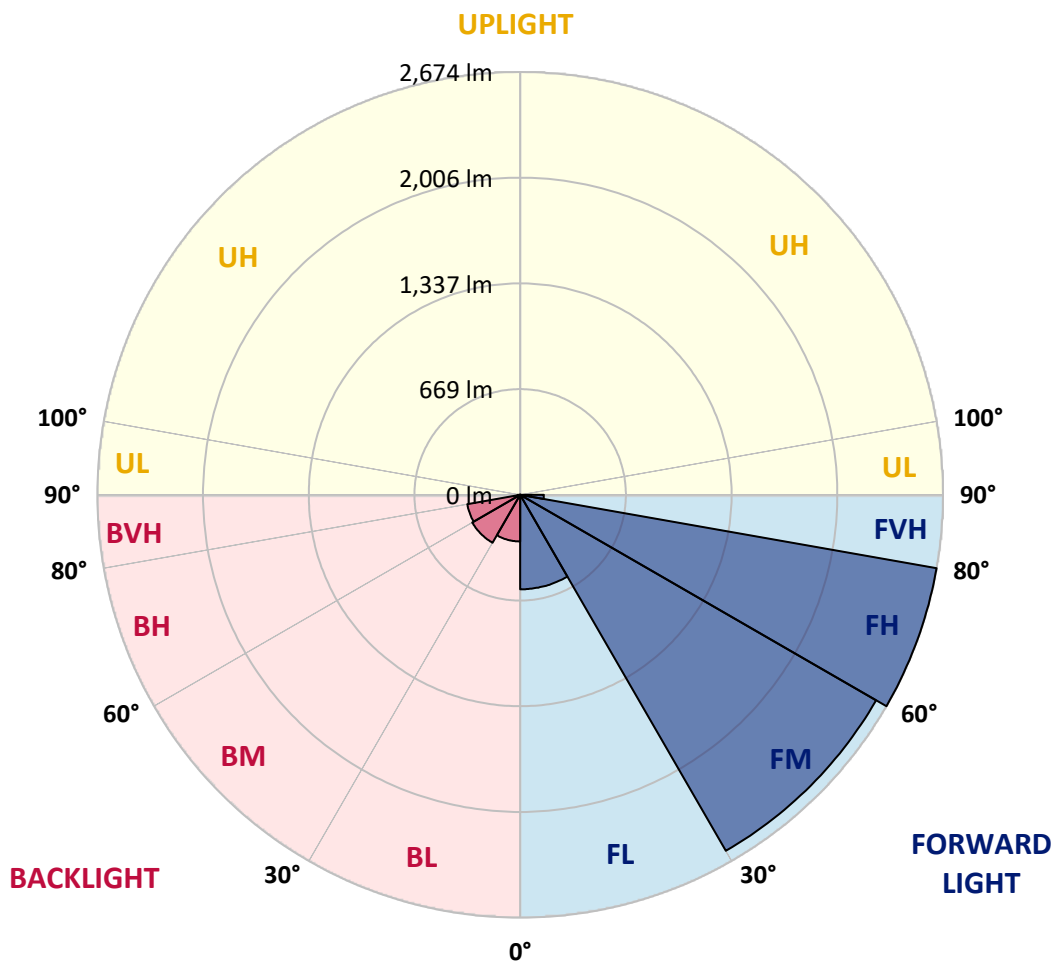
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	597.6	8.5			
FM (30°-60°)	2599.9	37.0			
FH (60°-80°)	2674.5	38.1			G2/5000
FVH (80°-90°)	150.2	2.1			G2/225
BL (0°-30°)	295.2	4.2	B1/500		
BM (30°-60°)	350.0	5.0	B1/1000		
BH (60°-80°)	339.7	4.8	B1/500		G1/500
BVH (80°-90°)	16.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1792.2	1792.2	1792.2	1792.2	1792.2	1792.2	1792.2	1792.2	1792.2	1792.2	1792.2
2.5°	1839.9	1844.9	1844.9	1840.8	1838.6	1825.5	1817.9	1812.5	1803.0	1785.4	1769.7
5°	1774.2	1783.6	1787.7	1789.5	1801.2	1797.2	1797.6	1794.0	1785.9	1767.0	1741.3
7.5°	1653.5	1655.3	1662.5	1674.6	1703.0	1722.8	1739.0	1742.2	1740.4	1726.4	1690.4
10°	1534.6	1537.7	1546.3	1567.0	1594.0	1622.4	1657.5	1671.9	1682.7	1678.2	1632.7
12.5°	1435.9	1436.4	1445.8	1469.7	1499.9	1535.5	1583.2	1605.7	1631.4	1641.8	1590.9
15°	1340.9	1347.2	1356.2	1385.0	1422.4	1467.4	1522.4	1553.5	1587.3	1617.0	1558.4
17.5°	1268.8	1273.8	1279.2	1303.0	1346.3	1402.6	1470.6	1503.9	1548.5	1594.0	1525.1
20°	1229.2	1231.0	1226.9	1238.6	1275.1	1335.9	1414.7	1454.8	1508.0	1571.9	1490.9
22.5°	1221.1	1221.1	1206.2	1204.0	1220.2	1271.5	1357.1	1406.2	1471.1	1556.6	1460.2
25°	1258.9	1256.2	1228.3	1202.6	1196.7	1222.9	1302.1	1362.5	1439.5	1556.2	1437.3
27.5°	1330.5	1326.9	1292.2	1249.0	1211.6	1200.4	1259.8	1321.5	1414.7	1571.5	1425.6
30°	1419.7	1418.4	1383.2	1329.2	1267.5	1209.4	1243.1	1300.3	1398.1	1599.9	1425.1
32.5°	1517.4	1511.1	1489.5	1435.5	1355.3	1259.4	1253.1	1301.2	1393.6	1641.3	1435.5
35°	1621.5	1617.0	1611.6	1557.1	1467.0	1347.6	1296.7	1332.3	1415.7	1699.0	1464.7
37.5°	1753.9	1749.0	1758.0	1698.5	1599.9	1463.4	1370.6	1394.5	1460.7	1782.7	1519.2
40°	1989.5	1975.1	1949.8	1858.4	1754.8	1605.3	1477.4	1481.0	1537.7	1894.9	1606.6
42.5°	2376.4	2330.0	2205.2	2037.2	1918.3	1770.1	1616.5	1599.4	1644.0	2043.1	1733.6
45°	2764.2	2711.9	2501.1	2232.2	2087.7	1947.1	1788.6	1747.6	1776.4	2215.6	1897.1
47.5°	3014.6	2988.9	2751.1	2427.3	2265.1	2139.9	1985.4	1917.9	1938.6	2411.1	2098.9
50°	3088.0	3066.0	2879.0	2580.0	2432.7	2372.8	2229.1	2139.5	2143.1	2639.4	2340.8
52.5°	3033.1	3024.1	2900.2	2674.6	2586.7	2618.3	2566.5	2441.7	2412.0	2889.9	2602.9
55°	2959.7	2962.8	2915.1	2769.6	2743.5	2847.1	3007.9	2907.4	2781.3	3150.6	2875.9
57.5°	2728.6	2730.9	2856.1	2950.7	3042.5	3167.8	3351.5	3309.2	3162.4	3432.2	3181.7
60°	2197.1	2214.7	2493.5	2913.3	3384.4	3799.7	3844.7	3771.8	3567.7	3756.4	3579.4
62.5°	1569.7	1585.5	1908.4	2529.1	3344.3	4514.9	4755.5	4465.4	4117.7	4241.5	4138.9
65°	824.7	822.0	1072.0	1747.6	2816.9	4680.7	6190.5	5696.8	5044.2	4908.6	4679.3
67.5°	460.8	475.6	572.5	881.5	1835.9	4119.5	7107.1	7252.6	6332.4	5437.8	4655.9
69°	426.1	431.0	495.9	681.5	1196.7	3398.8	7028.3	7722.3	6875.6	5440.1	4356.0
70°	413.9	419.3	478.3	627.9	1005.3	2784.9	6741.3	7667.4	7007.5	5319.4	4083.0
72.5°	371.1	378.3	435.5	564.4	847.2	1435.5	5430.2	6562.5	6347.7	4649.2	3166.0
75°	316.6	328.8	415.3	560.3	802.6	912.5	3621.3	4889.2	4724.4	3325.0	1796.2
77.5°	131.1	132.4	181.5	410.3	842.3	873.4	1946.2	3097.0	2741.7	1458.0	540.9
80°	91.4	89.6	90.5	119.8	679.7	879.2	998.6	1575.1	1224.2	384.7	253.1
82.5°	77.0	76.1	79.7	75.2	230.2	997.7	835.1	821.1	576.5	207.2	120.7
85°	50.9	49.5	65.3	68.5	109.5	792.3	898.1	645.4	429.7	110.8	51.3
87.5°	24.8	25.2	37.4	46.4	58.1	250.9	860.3	510.3	332.0	48.2	20.7
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°	1792.2	1792.2	1792.2	1792.2	1792.2	1792.2	1792.2	1792.2	1792.2	1792.2	1792.2
2.5°	1763.4	1749.9	1737.7	1722.4	1710.7	1700.8	1687.2	1686.8	1684.5	1687.7	1688.6
5°	1724.2	1701.7	1667.4	1629.1	1602.1	1566.5	1531.9	1520.1	1507.1	1505.7	1509.8
7.5°	1665.2	1630.0	1571.5	1512.9	1454.4	1394.5	1337.7	1308.9	1281.0	1272.4	1276.5
10°	1599.4	1554.8	1465.2	1369.7	1287.3	1198.1	1111.6	1055.8	1004.9	983.3	988.7
12.5°	1548.1	1491.3	1365.2	1241.3	1117.9	990.0	876.1	765.7	682.4	645.0	647.2
15°	1503.9	1431.4	1271.5	1106.7	952.2	777.0	618.9	491.0	418.0	391.0	390.1
17.5°	1456.2	1368.4	1173.8	981.5	781.0	564.4	414.4	338.7	309.9	300.9	300.9
20°	1405.3	1303.5	1071.5	845.0	600.9	394.1	311.7	282.4	271.6	268.9	268.4
22.5°	1358.0	1240.0	968.8	699.5	434.6	299.1	265.3	254.0	252.2	254.5	254.5
25°	1320.6	1184.1	864.8	546.4	316.2	250.4	236.0	234.7	241.4	249.5	250.9
27.5°	1292.7	1134.1	762.1	399.1	248.6	218.0	213.0	218.9	234.7	250.9	254.0
30°	1273.3	1091.4	639.1	286.9	207.2	191.0	193.2	203.6	227.5	252.2	259.0
32.5°	1264.8	1056.7	515.3	220.3	177.0	168.0	173.9	187.4	212.1	236.9	245.0
35°	1272.9	1031.4	400.9	182.9	154.9	148.2	154.9	168.9	185.1	197.3	202.2
37.5°	1302.1	1022.4	301.8	162.1	140.5	133.8	139.2	148.6	155.8	160.3	162.6
40°	1363.9	1031.9	236.5	151.3	132.4	124.8	126.1	130.6	135.6	139.2	139.6
42.5°	1462.0	1063.0	210.3	147.3	127.5	117.6	115.3	118.5	123.9	128.8	129.7
45°	1592.7	1114.8	207.6	148.6	125.2	111.7	107.2	110.4	117.6	125.7	127.0
47.5°	1761.6	1196.7	220.3	155.8	126.6	108.5	101.8	104.9	114.4	125.2	127.0
50°	1961.6	1310.3	243.7	166.7	132.9	108.5	99.5	102.2	112.2	124.3	126.1
52.5°	2197.1	1468.3	268.0	177.5	141.9	112.6	100.4	100.0	109.0	120.3	122.5
55°	2457.0	1664.7	291.4	186.9	146.8	118.0	102.7	97.3	104.5	113.5	115.3
57.5°	2762.8	1933.6	332.4	195.9	149.5	122.1	105.4	94.6	98.6	104.9	106.3
60°	3177.7	2328.6	412.1	211.2	154.5	123.9	105.8	91.9	91.4	95.9	96.4
62.5°	3718.6	2791.2	488.2	229.3	164.4	124.3	104.0	90.1	85.6	86.9	86.9
65°	4103.3	2961.5	466.2	244.6	173.4	123.9	102.2	88.7	81.1	78.8	78.8
67.5°	3884.4	2616.0	395.9	248.6	174.3	118.9	98.2	85.6	77.0	71.6	71.6
69°	3562.8	2293.1	363.5	241.4	167.1	113.1	93.7	82.4	74.3	68.0	68.0
70°	3300.6	2048.5	343.7	232.9	158.5	108.1	89.6	79.3	71.6	66.2	65.8
72.5°	2464.2	1367.0	293.7	200.9	130.2	91.4	78.4	70.7	64.4	60.8	60.8
75°	1300.3	685.1	240.5	164.0	100.4	73.0	64.4	59.5	55.9	55.4	55.0
77.5°	426.1	309.9	173.0	123.4	73.9	56.8	51.3	48.2	47.7	49.5	49.5
80°	230.2	185.1	111.3	83.3	51.3	42.3	39.6	39.2	40.5	43.2	43.2
82.5°	111.7	91.4	66.2	51.3	35.1	31.1	31.1	31.5	33.3	36.5	36.5
85°	48.2	43.2	38.3	28.8	21.6	19.4	22.1	24.3	25.7	27.9	28.8
87.5°	23.0	20.3	17.6	11.3	9.5	9.9	11.7	14.4	17.1	18.9	19.4
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)