

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: P199177

Luminaire Tested: **XNV2-AF-02-LED-U-SL2-8030-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199177  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24258)  
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-SL2-8030-1200-HSS  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8805 lumens  
Efficiency: N/A  
Efficacy: 68.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 128  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

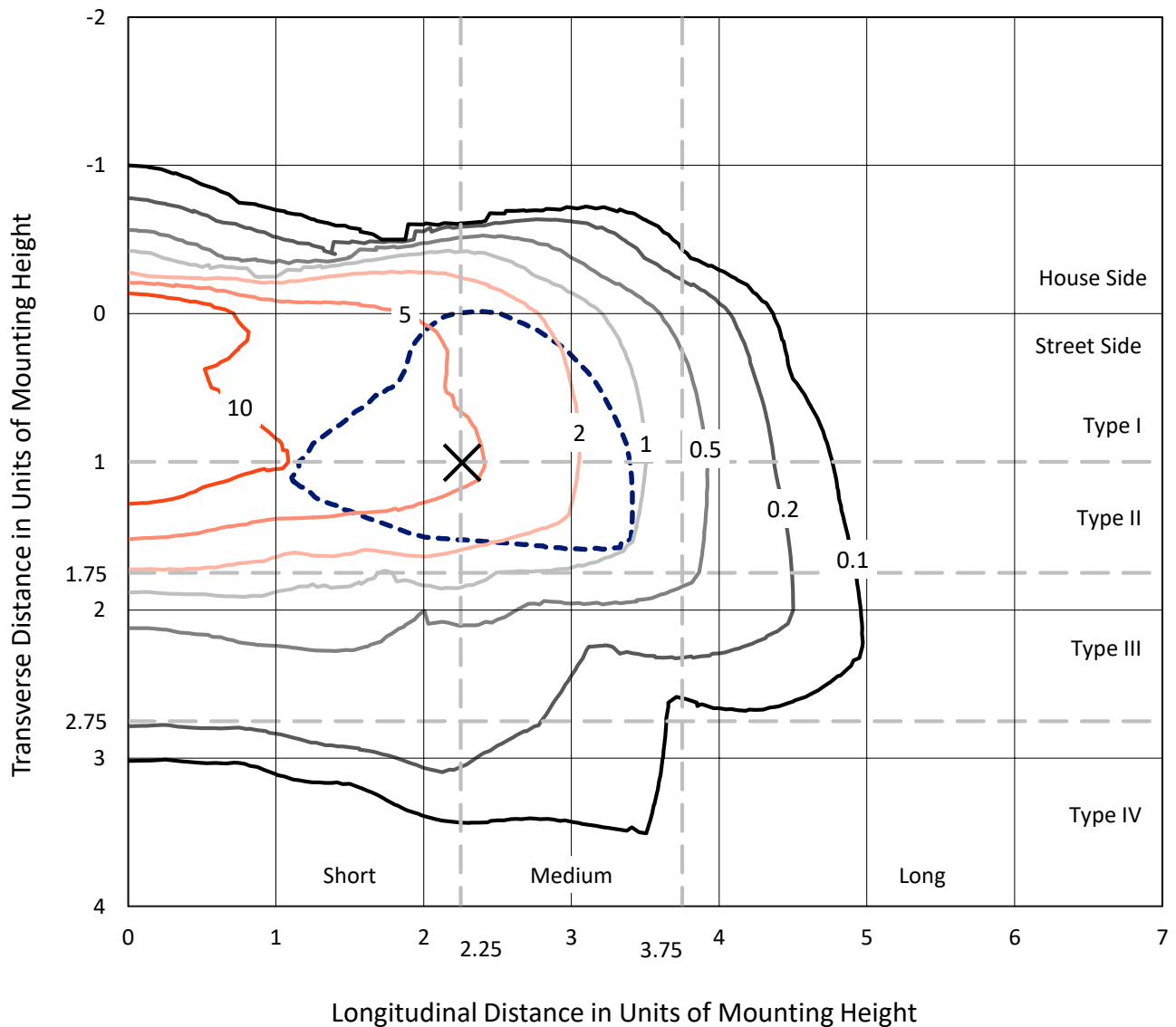


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

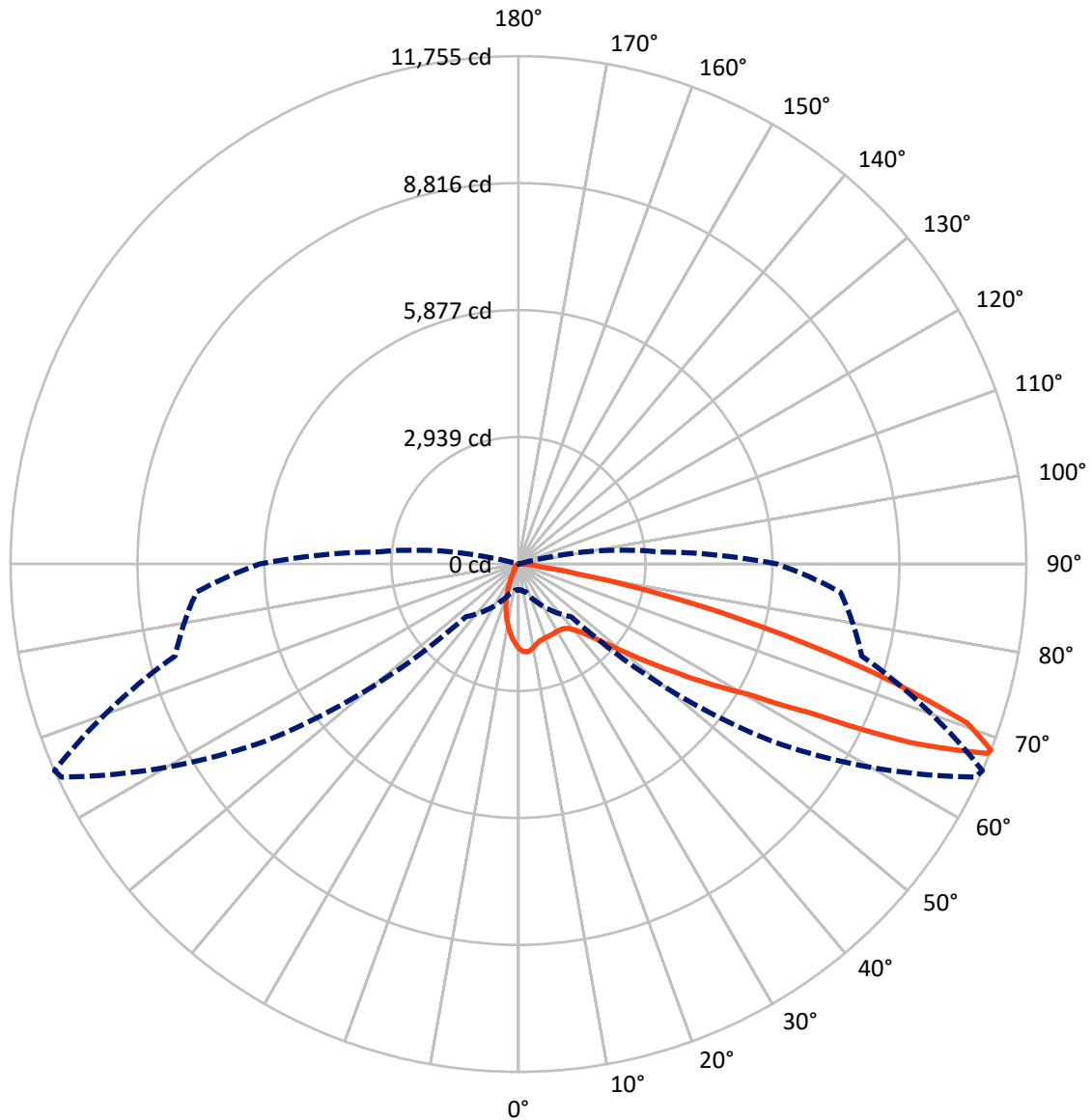


Based on 10 foot mounting height. Maximum calculated value = 19.6 fc  
 Type II - Medium - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 68-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	891.8	0.0	891.8
	% Fixture	10.1	0.0	10.1
<b>Street Side</b>	Lumens	7913.1	0.0	7913.1
	% Fixture	89.9	0.0	89.9
<b>Total</b>	Lumens	8805.0	0.0	8805.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.8	1.8
10°-20°	346.0	3.9
20°-30°	501.4	5.7
30°-40°	767.6	8.7
40°-50°	1312.8	14.9
50°-60°	2053.7	23.3
60°-70°	2364.7	26.9
70°-80°	1183.3	13.4
80°-90°	114.6	1.3
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°	8805.0	100.0
0°-180°	8805.0	100.0

**Coefficient of Utilization**



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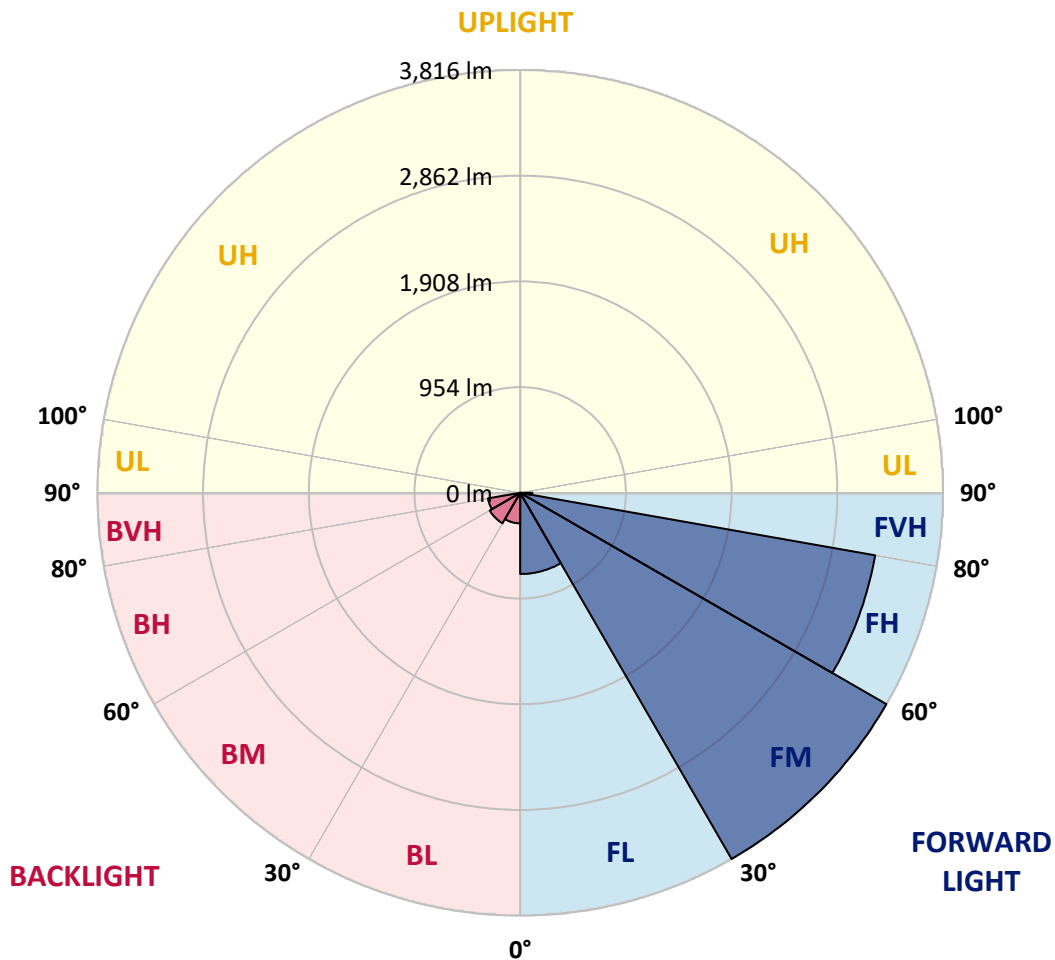
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	733.0	8.3			
FM (30°-60°)	3816.5	43.3			
FH (60°-80°)	3253.4	36.9			G2/5000
FVH (80°-90°)	110.3	1.3			G2/225
BL (0°-30°)	275.3	3.1	B1/500		
BM (30°-60°)	317.6	3.6	B1/1000		
BH (60°-80°)	294.7	3.3	B1/500		G1/500
BVH (80°-90°)	4.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1961.7	1961.7	1961.7	1961.7	1961.7	1961.7	1961.7	1961.7	1961.7	1961.7	1961.7
2.5°	2063.3	2064.7	2064.0	2066.0	2064.7	2054.3	2043.2	2019.7	2021.8	1991.4	1957.5
5°	1918.1	1929.9	1941.6	1953.4	1981.7	2006.6	2036.3	2043.2	2043.2	2017.0	1967.2
7.5°	1770.2	1770.9	1784.0	1799.9	1837.9	1883.6	1952.7	2014.9	2016.3	2023.2	1968.6
10°	1658.9	1662.4	1671.4	1688.6	1726.7	1771.6	1849.0	1946.5	1954.1	2005.2	1954.8
12.5°	1572.5	1576.7	1586.3	1606.4	1640.9	1687.3	1768.8	1880.1	1890.5	1987.9	1950.6
15°	1506.2	1511.7	1519.3	1539.3	1576.7	1625.7	1714.9	1835.9	1848.3	1981.0	1963.7
17.5°	1478.5	1478.5	1477.8	1491.6	1529.0	1578.7	1672.1	1812.4	1828.3	1986.6	1985.9
20°	1490.3	1488.2	1473.7	1470.2	1493.0	1542.8	1638.2	1797.2	1815.1	1996.9	2012.8
22.5°	1552.5	1548.3	1515.8	1488.9	1482.0	1515.1	1615.4	1786.8	1808.2	2018.4	2048.8
25°	1684.5	1672.1	1627.1	1566.3	1511.7	1508.2	1599.5	1781.3	1804.1	2043.2	2088.2
27.5°	1855.9	1852.5	1780.6	1699.0	1593.9	1531.0	1594.6	1777.1	1799.9	2061.2	2120.0
30°	2068.8	2070.2	1987.2	1880.8	1721.8	1595.3	1609.8	1775.0	1798.5	2062.6	2133.8
32.5°	2288.6	2290.0	2220.9	2106.8	1896.7	1705.9	1652.7	1784.7	1806.1	2057.1	2133.1
35°	2500.1	2502.2	2460.7	2368.8	2130.3	1859.4	1733.6	1817.9	1833.1	2060.5	2131.7
37.5°	2767.6	2775.9	2724.8	2639.1	2423.4	2084.7	1865.6	1884.9	1897.4	2088.9	2142.1
40°	3223.8	3212.8	3066.2	2921.1	2741.4	2359.1	2056.4	2000.4	2004.5	2162.1	2181.5
42.5°	3755.4	3741.6	3490.6	3240.4	3068.3	2690.2	2300.4	2177.3	2176.6	2285.2	2267.2
45°	4213.0	4204.7	3940.6	3606.8	3430.5	3055.9	2601.0	2432.4	2424.1	2498.1	2423.4
47.5°	4537.8	4530.9	4331.2	3996.6	3849.4	3458.2	2976.4	2780.1	2762.8	2776.6	2677.1
50°	4569.6	4562.0	4492.2	4277.2	4338.8	4048.5	3440.2	3235.6	3213.5	3192.0	3060.7
52.5°	4272.4	4271.7	4308.3	4294.5	4681.6	4808.1	4009.1	3798.9	3772.7	3718.1	3587.4
55°	3664.8	3661.4	3800.3	4002.1	4674.0	5591.9	4876.5	4469.4	4434.8	4325.6	4154.2
57.5°	2677.8	2659.8	2950.1	3378.0	4345.7	5934.8	6254.1	5302.3	5244.9	4898.6	4634.6
60°	1478.5	1485.4	1858.7	2365.3	3568.1	5867.0	7521.8	6273.5	6122.8	5392.9	5126.7
62.5°	828.8	846.0	1123.9	1537.3	2274.8	5317.5	8202.0	7944.8	7581.9	5969.3	5748.8
65°	626.9	637.3	776.9	1186.1	1434.3	3716.0	8310.5	10281.8	9968.7	6843.0	6739.4
67.5°	590.3	598.6	667.0	983.6	1306.4	1927.1	7493.5	11664.3	11703.7	8034.7	7506.6
68°	594.4	604.8	673.2	946.3	1304.3	1723.9	7145.1	11671.2	11754.8	8226.9	7480.3
70°	546.1	548.8	712.0	928.3	1264.2	1358.2	5168.9	10871.4	11021.4	8455.6	6790.5
72.5°	208.7	209.4	319.3	803.9	1324.4	1365.8	2603.8	8592.5	8600.1	7358.7	5294.0
75°	108.5	91.2	100.2	251.6	1264.9	1331.3	1306.4	5867.0	5830.4	4976.8	3243.9
77.5°	74.7	63.6	67.0	87.1	526.0	1330.6	943.5	3373.8	3366.2	2117.2	925.5
80°	42.2	36.6	40.1	73.3	184.6	1249.0	879.2	1450.2	1366.5	371.9	150.0
82.5°	21.4	18.0	21.4	61.5	114.7	785.9	855.0	568.9	506.7	88.5	97.5
85°	5.5	5.5	10.4	42.9	71.2	257.8	766.6	410.6	369.1	38.7	69.1
87.5°	1.4	0.7	4.1	15.9	25.6	56.0	425.1	228.8	197.0	20.0	40.1
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°	1961.7	1961.7	1961.7	1961.7	1961.7	1961.7	1961.7	1961.7	1961.7	1961.7	1961.7
2.5°	1943.7	1924.3	1886.3	1843.5	1813.1	1779.9	1760.5	1737.0	1719.1	1703.2	1714.9
5°	1936.8	1899.5	1815.1	1720.4	1640.9	1564.9	1508.2	1454.3	1413.5	1388.0	1398.3
7.5°	1918.8	1863.5	1726.7	1578.7	1448.8	1326.4	1226.9	1137.7	1068.6	1031.3	1043.0
10°	1888.4	1810.3	1626.4	1421.1	1239.4	1066.5	918.6	785.9	685.7	638.7	649.7
12.5°	1866.3	1763.3	1522.7	1269.1	1029.9	784.5	588.2	436.2	358.0	311.0	315.2
15°	1856.6	1726.7	1426.0	1108.7	801.1	503.9	318.0	230.2	203.2	193.5	194.2
17.5°	1858.0	1697.6	1334.0	942.1	570.3	289.6	194.9	175.6	171.4	169.3	169.3
20°	1861.4	1668.6	1238.7	768.6	365.0	186.6	162.4	156.2	154.1	151.4	152.1
22.5°	1871.8	1646.5	1142.6	594.4	224.6	152.1	143.8	138.2	134.8	130.6	131.3
25°	1887.7	1629.9	1047.9	427.9	158.3	132.7	125.1	117.5	111.3	106.4	107.1
27.5°	1897.4	1606.4	947.0	291.7	131.3	116.1	105.8	95.4	88.5	84.3	83.6
30°	1890.5	1568.4	832.2	191.5	116.1	100.2	87.8	76.0	69.1	65.7	65.7
32.5°	1871.8	1519.3	705.7	139.6	103.0	86.4	71.2	60.8	56.0	53.9	54.6
35°	1850.4	1468.1	570.9	118.2	92.6	73.3	58.1	49.8	47.7	47.0	47.0
37.5°	1838.6	1423.9	441.7	107.1	82.9	60.8	47.7	42.9	40.8	40.8	40.8
40°	1851.8	1390.0	326.9	98.8	73.3	50.5	40.1	36.6	35.9	35.9	35.9
42.5°	1907.8	1378.3	239.2	91.9	63.6	42.2	34.6	31.8	31.1	31.8	31.8
45°	2017.0	1403.9	181.1	85.0	54.6	34.6	29.7	27.6	27.6	28.3	28.3
47.5°	2202.2	1469.5	148.6	78.1	45.6	29.0	25.6	24.2	24.2	24.9	24.9
50°	2489.8	1591.2	133.4	70.5	38.0	24.9	21.4	20.7	20.7	21.4	22.1
52.5°	2926.6	1822.7	125.8	62.9	31.1	20.7	18.0	17.3	18.0	18.7	18.7
55°	3412.5	2119.3	116.8	55.3	26.3	17.3	14.5	14.5	15.2	16.6	16.6
57.5°	3865.3	2405.4	108.5	45.6	22.8	13.8	11.8	11.8	13.1	14.5	14.5
60°	4343.6	2686.1	97.5	36.6	19.4	11.1	9.7	9.7	11.8	13.1	13.8
62.5°	4934.6	3012.3	82.9	29.0	15.2	8.3	6.9	9.0	11.1	13.1	13.1
65°	5788.9	3418.1	65.0	22.8	11.8	6.2	5.5	8.3	10.4	12.4	13.1
67.5°	6099.3	3366.2	49.1	18.7	9.0	4.8	4.8	7.6	10.4	12.4	12.4
68°	5985.9	3252.9	47.0	18.0	8.3	4.8	4.8	7.6	10.4	12.4	12.4
70°	5215.9	2659.1	38.7	13.8	6.9	4.1	4.1	6.9	10.4	11.8	12.4
72.5°	3905.4	1766.7	33.2	9.0	6.2	4.1	3.5	6.9	9.7	11.8	11.8
75°	2240.2	733.4	28.3	6.9	5.5	3.5	3.5	6.2	9.7	11.8	11.8
77.5°	633.2	171.4	22.8	5.5	4.8	3.5	2.8	6.2	9.0	11.1	11.1
80°	116.1	51.1	18.0	4.8	4.1	3.5	2.8	6.2	9.0	11.1	11.1
82.5°	76.7	24.2	13.1	4.8	4.1	3.5	2.8	5.5	8.3	10.4	10.4
85°	57.4	17.3	8.3	4.8	4.1	3.5	2.8	5.5	8.3	10.4	10.4
87.5°	31.8	7.6	6.2	5.5	4.8	3.5	2.8	4.8	7.6	9.7	9.7
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)