

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: P198543

Luminaire Tested: **XNV2-AF-02-LED-U-SL2-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198543  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24257)  
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-SL2-7030  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10465 lumens  
Efficiency: N/A  
Efficacy: 94.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

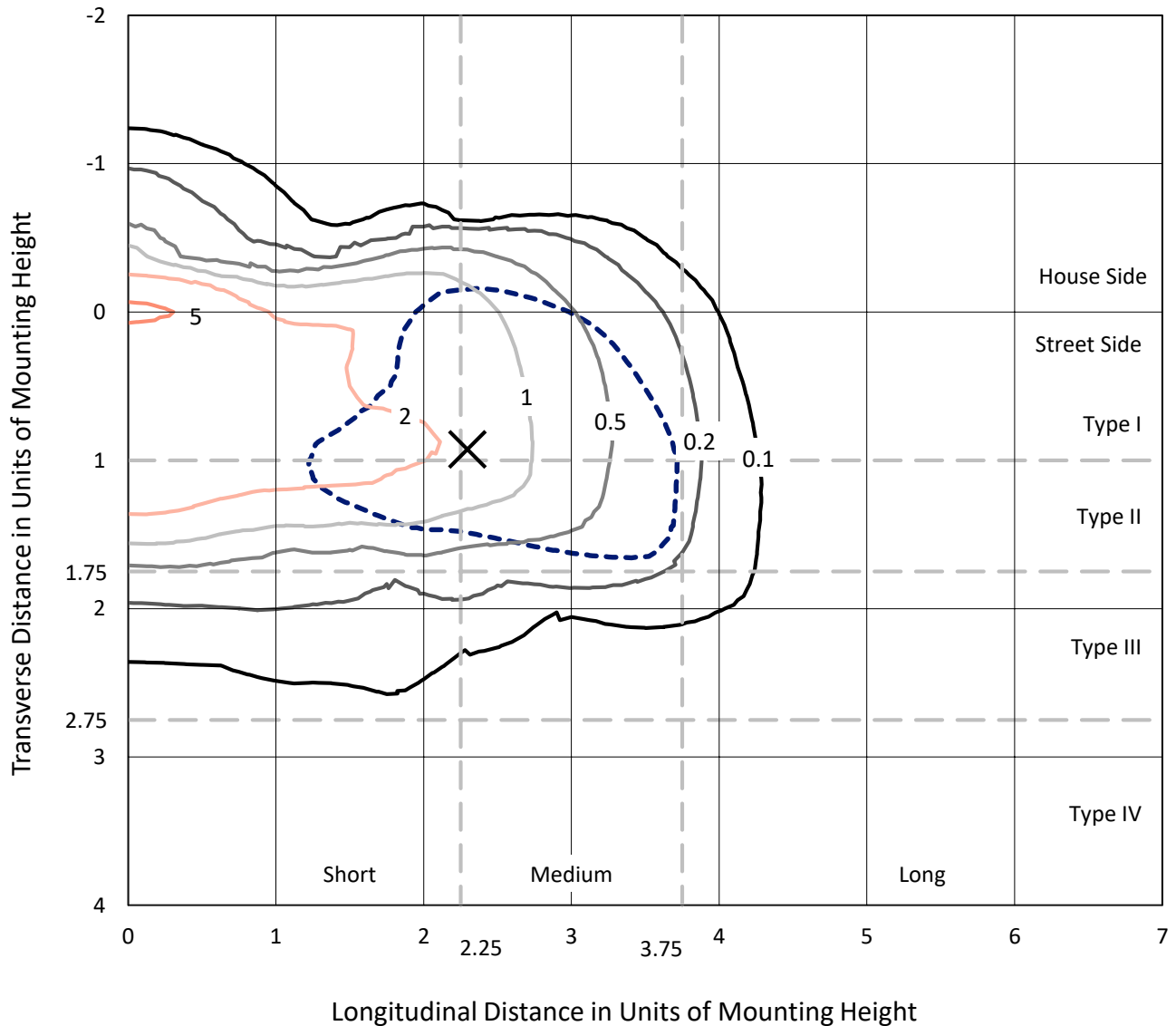
Input Watts (W): 111  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

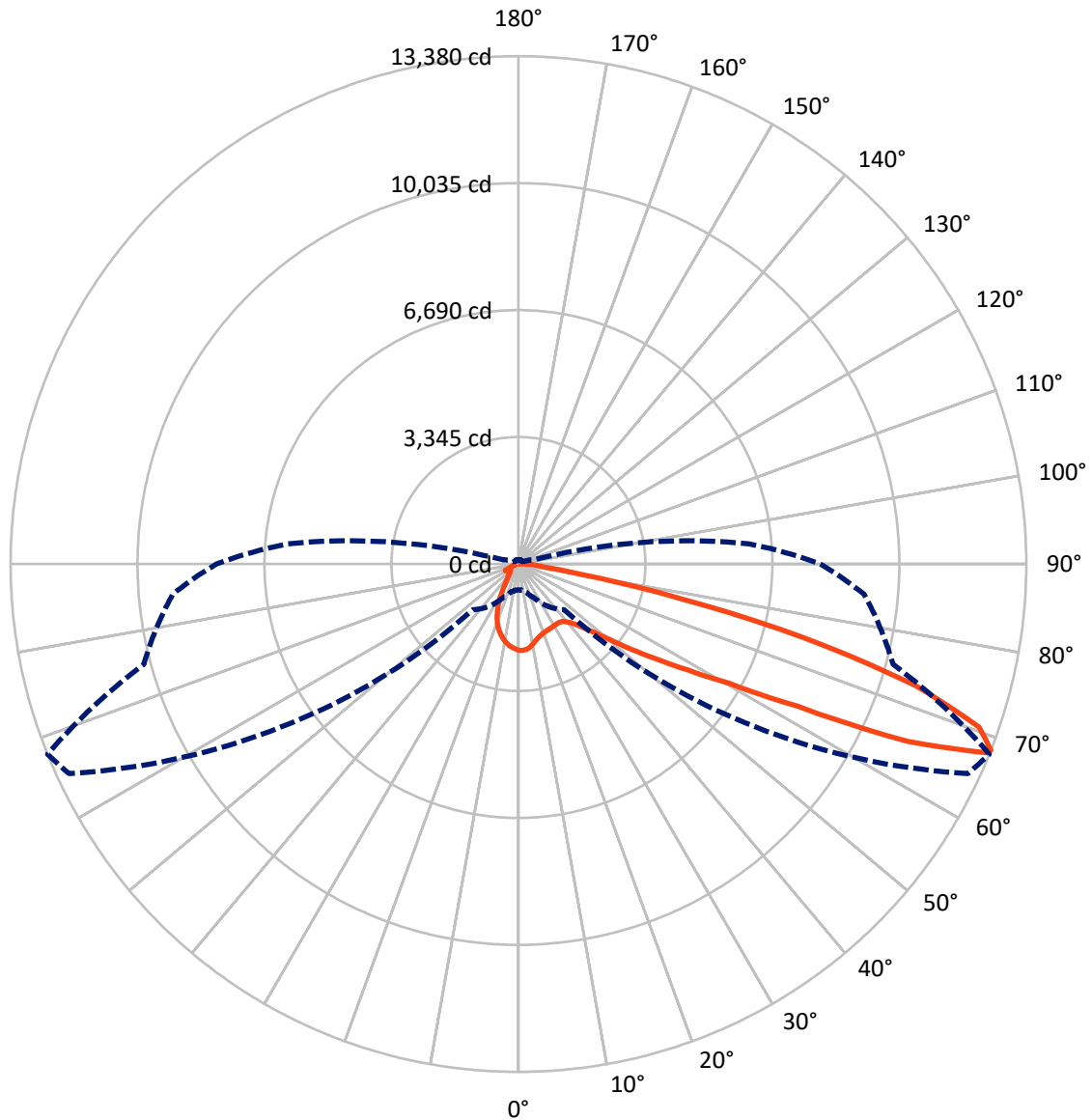
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.7 fc  
 Type II - Medium - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1712.1	0.0	1712.1
	% Fixture	16.4	0.0	16.4
<b>Street Side</b>	Lumens	8752.9	0.0	8752.9
	% Fixture	83.6	0.0	83.6
<b>Total</b>	Lumens	10465.0	0.0	10465.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.1	1.9
10°-20°	452.5	4.3
20°-30°	612.0	5.8
30°-40°	862.9	8.2
40°-50°	1419.0	13.6
50°-60°	2199.5	21.0
60°-70°	2851.9	27.3
70°-80°	1636.6	15.6
80°-90°	235.5	2.3
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°	10465.0	100.0
0°-180°	10465.0	100.0

**Coefficient of Utilization**



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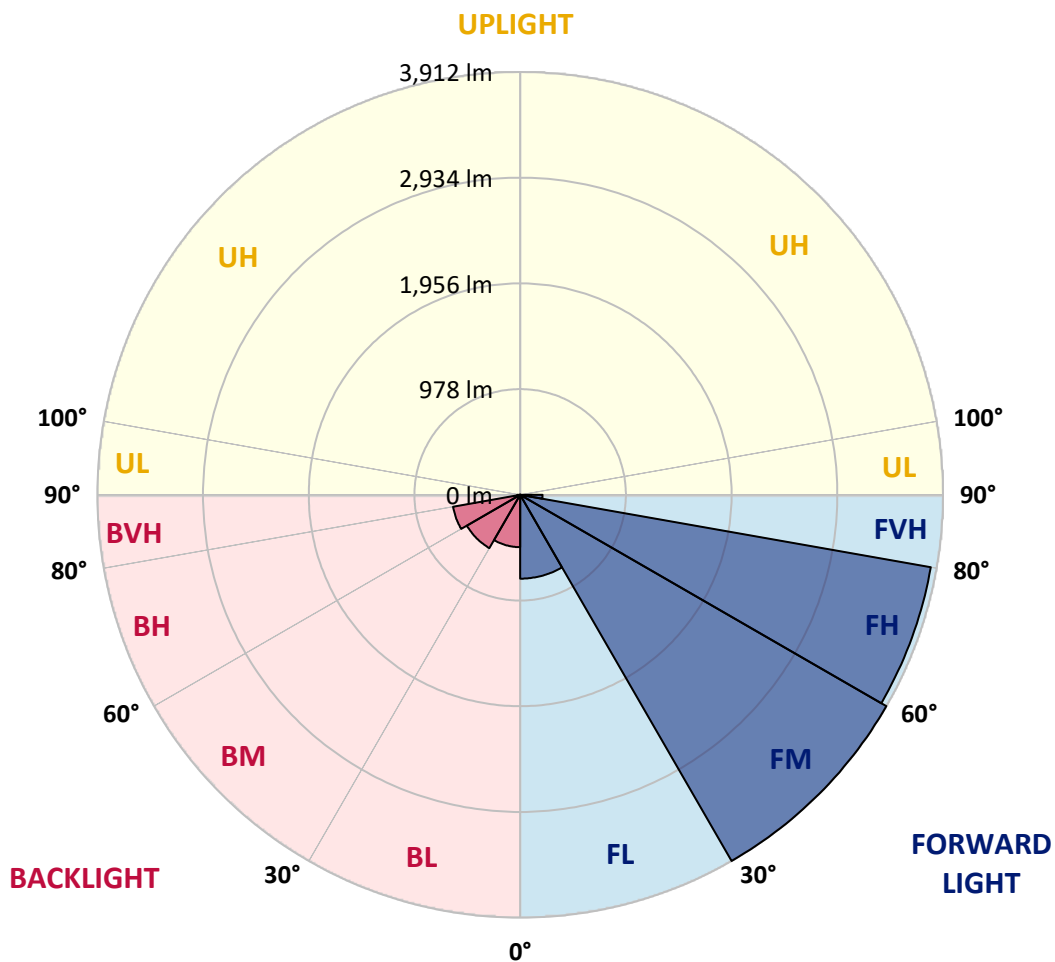
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	775.6	7.4			
FM	(30°-60°)	3912.0	37.4			
FH	(60°-80°)	3857.9	36.9			G2/5000
FVH	(80°-90°)	207.4	2.0			G2/225
BL	(0°-30°)	484.0	4.6	B1/500		
BM	(30°-60°)	569.5	5.4	B1/1000		
BH	(60°-80°)	630.5	6.0	B2/1000		G2/1000
BVH	(80°-90°)	28.1	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°	68°	75°	85°
0°	2277.1	2277.1	2277.1	2277.1	2277.1	2277.1	2277.1	2277.1	2277.1	2277.1	2277.1
2.5°	2216.2	2234.0	2234.0	2247.0	2258.6	2268.2	2276.4	2276.4	2276.4	2270.9	2266.2
5°	1983.1	2007.1	2010.5	2043.3	2086.4	2139.0	2197.8	2249.7	2260.0	2279.1	2286.7
7.5°	1821.1	1828.6	1841.6	1864.2	1907.9	1972.9	2065.2	2181.4	2209.4	2269.6	2301.0
10°	1706.3	1712.4	1723.4	1745.9	1785.6	1844.4	1935.3	2086.4	2132.8	2239.5	2301.7
12.5°	1622.2	1627.0	1637.2	1657.7	1698.1	1750.7	1843.7	2000.9	2058.3	2209.4	2311.3
15°	1556.6	1564.8	1573.0	1592.8	1633.8	1684.4	1778.7	1938.7	2000.9	2185.5	2329.0
17.5°	1530.6	1534.7	1536.1	1546.3	1583.2	1634.5	1728.8	1895.0	1959.2	2166.3	2342.7
20°	1547.0	1547.7	1534.0	1527.2	1548.4	1595.5	1687.1	1862.1	1927.8	2149.3	2348.2
22.5°	1618.8	1618.8	1583.2	1553.2	1538.8	1568.2	1659.1	1839.6	1910.7	2136.3	2348.2
25°	1755.5	1749.3	1694.0	1634.5	1570.9	1558.6	1641.3	1825.2	1897.7	2129.4	2339.3
27.5°	1935.3	1929.8	1859.4	1771.2	1656.4	1579.1	1635.2	1813.6	1884.7	2119.2	2320.2
30°	2154.0	2149.3	2069.3	1953.7	1784.2	1644.1	1649.5	1805.4	1874.4	2102.1	2288.0
32.5°	2372.1	2369.4	2305.8	2187.5	1960.6	1754.1	1687.1	1804.0	1869.0	2081.6	2249.1
35°	2591.5	2591.5	2552.6	2452.8	2197.8	1919.6	1765.8	1829.3	1879.2	2070.6	2215.6
37.5°	2915.6	2902.6	2830.1	2726.9	2496.5	2134.2	1892.9	1882.7	1918.9	2089.1	2204.6
40°	3417.3	3379.7	3198.6	3025.0	2822.6	2409.0	2078.8	1985.9	2007.7	2152.0	2230.6
42.5°	3942.4	3882.9	3642.9	3365.4	3159.6	2748.1	2322.9	2153.4	2152.7	2273.7	2313.3
45°	4392.9	4362.1	4102.3	3750.3	3544.5	3129.5	2631.2	2402.2	2377.6	2462.3	2472.6
47.5°	4654.7	4634.2	4477.6	4157.7	4001.1	3580.0	3022.2	2747.4	2700.9	2751.5	2735.8
50°	4582.2	4602.0	4556.9	4393.5	4492.0	4213.1	3520.6	3220.5	3132.3	3182.9	3144.6
52.5°	4200.8	4254.1	4294.4	4325.9	4774.3	5060.0	4146.8	3811.1	3738.0	3729.1	3692.2
55°	3513.7	3598.5	3725.7	3956.7	4698.4	5740.2	5240.5	4525.5	4418.8	4362.8	4377.1
57.5°	2391.3	2519.8	2793.9	3233.5	4304.0	6030.1	6857.9	5448.3	5267.9	5068.3	5114.7
60°	1317.3	1424.6	1750.7	2193.7	3403.7	5987.0	8291.5	6948.2	6380.1	5851.0	5946.7
62.5°	852.5	875.7	1118.4	1498.5	2089.1	5285.6	9087.9	9455.0	8251.1	6883.2	7017.9
65°	685.0	701.4	820.3	1208.6	1455.4	3400.3	9123.4	12055.4	11261.7	8286.0	8290.1
67.5°	669.2	676.8	745.8	1016.5	1365.2	1851.2	7886.1	13080.8	13264.7	9941.7	9141.2
68°	678.8	687.7	757.4	985.1	1364.5	1706.3	7288.6	13065.1	13380.2	10218.5	9141.2
70°	598.8	609.8	772.5	1019.3	1306.4	1467.0	4991.0	12371.2	12878.4	10855.0	8673.6
72.5°	313.1	304.2	382.1	804.6	1470.4	1528.5	2636.7	10335.4	10927.4	10053.1	7493.7
75°	244.0	222.2	214.0	317.9	1293.4	1585.3	1531.3	7346.0	7793.1	7246.9	5008.8
77.5°	229.7	203.0	187.3	188.0	569.4	1649.5	1238.7	4323.1	4323.1	3457.0	1598.3
80°	184.6	160.0	149.7	170.9	274.8	1520.3	1292.7	1970.2	1680.3	893.5	440.2
82.5°	121.7	108.7	109.4	138.8	208.5	1015.2	1497.1	972.8	730.8	395.8	259.1
85°	77.2	66.3	73.8	97.1	155.9	452.5	1482.1	676.1	484.0	222.2	129.2
87.5°	39.0	30.1	36.9	50.6	95.0	129.9	1220.2	603.6	358.9	92.3	70.4
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°	2277.1	2277.1	2277.1	2277.1	2277.1	2277.1	2277.1	2277.1	2277.1	2277.1	2277.1
2.5°	2266.2	2251.1	2243.6	2231.3	2216.2	2201.2	2191.0	2186.2	2183.4	2184.8	2184.1
5°	2282.6	2262.7	2230.6	2184.8	2137.6	2087.7	2049.4	2020.1	2001.6	1996.1	1994.8
7.5°	2294.9	2266.2	2206.0	2122.6	2041.9	1954.4	1879.9	1820.4	1780.1	1761.7	1761.0
10°	2292.8	2255.9	2160.9	2037.8	1919.6	1791.0	1674.2	1574.3	1501.9	1467.0	1465.7
12.5°	2294.9	2244.3	2105.5	1938.7	1769.2	1585.3	1411.6	1256.5	1148.5	1097.2	1095.1
15°	2303.1	2232.0	2048.8	1828.0	1593.5	1333.7	1085.6	890.7	792.3	758.8	758.8
17.5°	2302.4	2211.5	1983.1	1699.4	1385.0	1037.0	741.0	620.7	611.1	641.9	646.7
20°	2288.7	2178.7	1898.4	1547.0	1140.3	717.8	502.5	485.4	561.9	646.7	656.3
22.5°	2267.5	2136.3	1800.6	1369.9	855.2	467.6	387.6	413.6	517.5	622.8	637.8
25°	2238.1	2085.0	1688.5	1164.2	568.8	336.3	323.3	355.5	428.6	499.0	510.0
27.5°	2195.1	2020.1	1566.1	941.3	363.0	276.9	281.6	304.2	335.7	365.7	371.9
30°	2141.1	1944.2	1432.8	694.5	275.5	247.5	255.7	269.3	283.0	302.2	306.3
32.5°	2086.4	1866.9	1294.1	477.2	240.6	231.7	239.9	247.5	259.1	272.1	274.8
35°	2037.1	1795.1	1151.2	332.9	225.6	221.5	225.6	230.4	242.0	255.0	256.4
37.5°	2001.6	1736.4	1002.2	263.2	216.7	212.6	214.7	216.7	230.4	249.5	251.6
40°	1996.8	1697.4	851.1	236.5	209.9	204.4	203.0	204.4	222.2	244.0	246.1
42.5°	2043.3	1699.4	703.4	225.6	204.4	198.2	192.8	195.5	211.2	228.3	229.7
45°	2153.4	1747.3	575.6	220.8	199.6	194.8	186.6	188.0	195.5	204.4	205.8
47.5°	2347.5	1851.9	477.8	218.1	195.5	191.4	181.2	177.1	177.7	182.5	182.5
50°	2657.9	2026.9	418.4	215.3	192.1	184.6	173.0	164.7	162.7	165.4	166.1
52.5°	3120.7	2327.0	389.7	209.9	185.9	175.7	162.7	154.5	151.1	153.8	153.8
55°	3746.2	2806.2	376.0	202.3	178.4	164.7	153.1	146.3	143.6	145.6	145.6
57.5°	4459.2	3429.0	399.2	192.1	168.9	153.1	144.9	140.1	138.1	140.1	140.8
60°	5306.1	4243.8	559.2	179.1	158.6	142.9	138.1	135.4	134.0	136.0	136.0
62.5°	6432.0	5328.0	865.4	168.9	147.7	133.3	131.9	130.6	129.2	131.3	131.3
65°	7647.5	6314.5	890.7	162.7	138.1	125.1	125.8	125.8	124.4	126.5	126.5
67.5°	8034.4	6229.0	497.7	155.2	126.5	116.9	119.6	119.6	118.9	121.0	120.3
68°	7952.4	6093.7	433.4	153.1	124.4	114.8	117.6	118.3	117.6	119.6	118.9
70°	7341.2	5349.9	285.1	141.5	115.5	108.0	112.1	112.8	112.1	114.8	114.2
72.5°	6060.2	4012.8	210.6	123.7	104.6	99.1	103.2	103.9	104.6	107.3	106.6
75°	3848.7	2216.2	166.1	105.3	93.7	88.9	93.0	95.0	96.4	100.5	98.4
77.5°	1054.1	672.7	134.7	89.6	80.7	78.6	81.3	84.1	85.5	90.2	86.8
80°	369.1	297.4	112.1	75.9	67.0	66.3	69.0	71.8	73.1	77.2	73.1
82.5°	224.2	194.1	89.6	59.5	52.6	52.0	55.4	58.1	59.5	59.5	56.7
85°	116.9	102.5	65.6	41.7	36.2	34.2	40.3	43.8	44.4	43.8	41.7
87.5°	65.6	58.1	34.9	19.8	16.4	17.1	21.2	26.0	28.0	27.3	26.0
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)