

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: P198535

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198535  
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-SL2-7030-HSS  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1050mA 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: 8709 lumens  
Efficiency: N/A  
Efficacy: 78.5 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): 111  
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

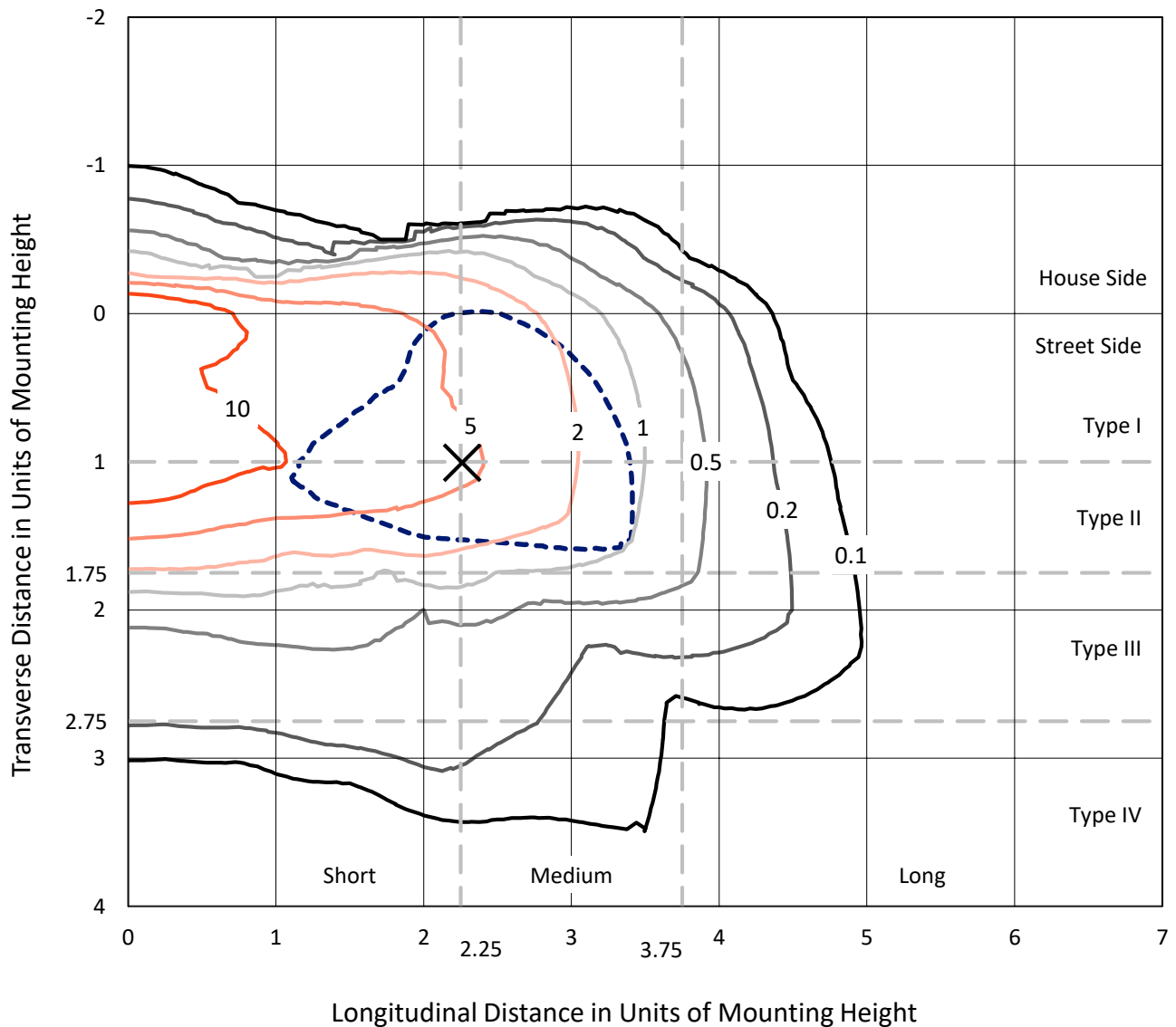


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

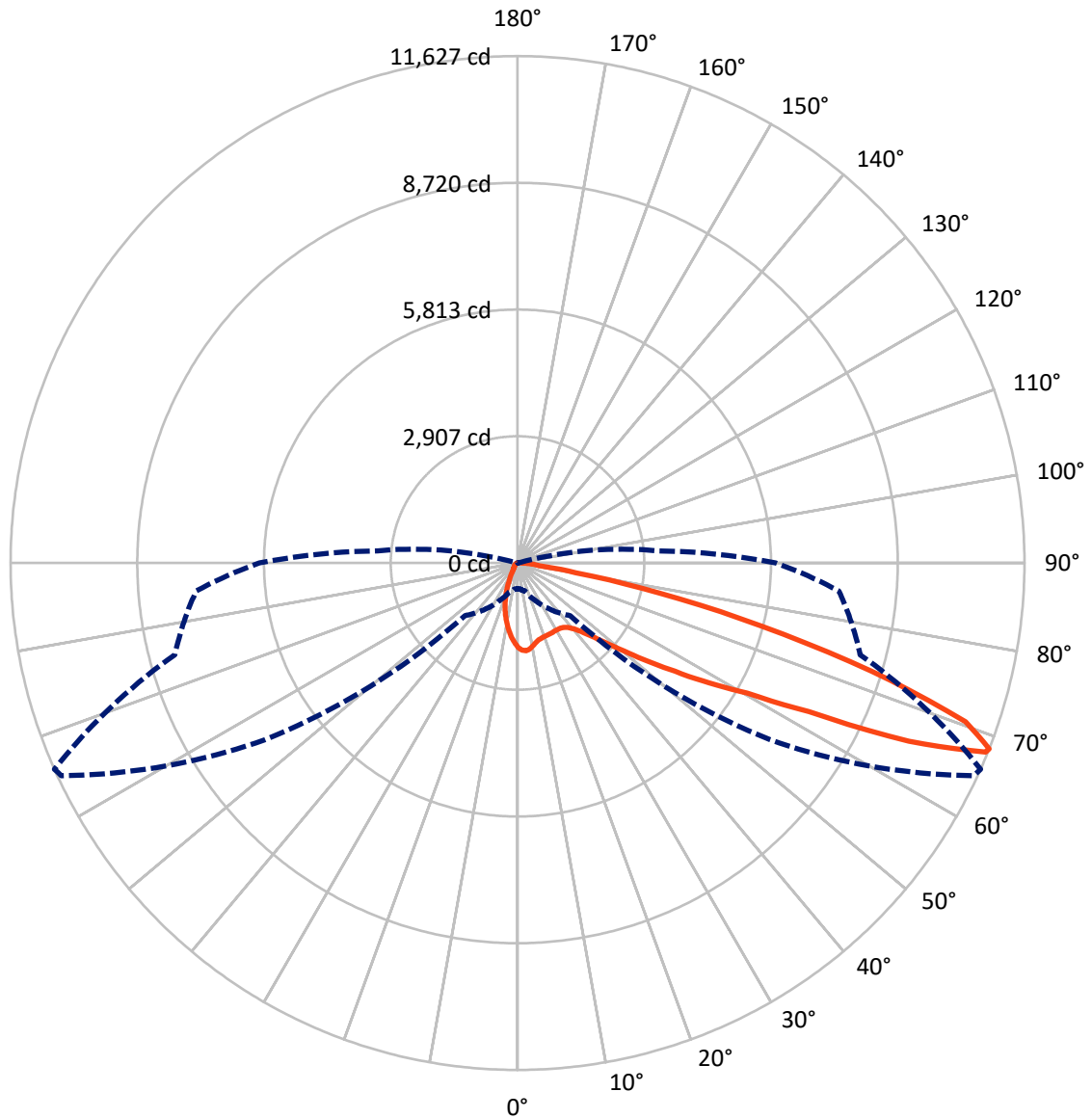


Based on 10 foot mounting height. Maximum calculated value = 19.4 fc  
 Type II - Medium - Semi-Cutoff

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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	882.1	0.0	882.1
	% Fixture	10.1	0.0	10.1
<b>Street Side</b>	Lumens	7826.9	0.0	7826.9
	% Fixture	89.9	0.0	89.9
<b>Total</b>	Lumens	8709.0	0.0	8709.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.1	1.8
10°-20°	342.2	3.9
20°-30°	495.9	5.7
30°-40°	759.2	8.7
40°-50°	1298.5	14.9
50°-60°	2031.3	23.3
60°-70°	2339.0	26.9
70°-80°	1170.4	13.4
80°-90°	113.4	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°	8709.0	100.0
0°-180°	8709.0	100.0

**Coefficient of Utilization**



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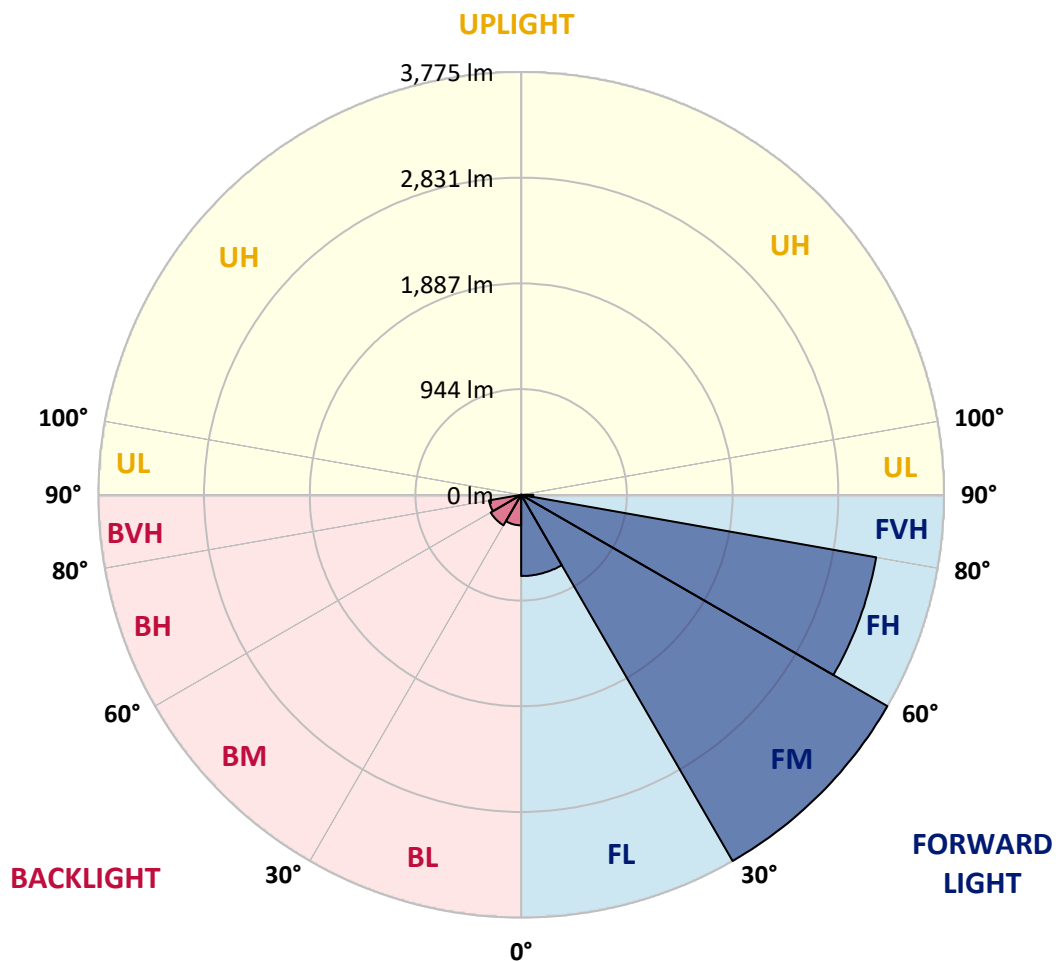
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	725.0	8.3			
FM (30°-60°)	3774.9	43.3			
FH (60°-80°)	3218.0	36.9			G2/5000
FVH (80°-90°)	109.1	1.3			G2/225
BL (0°-30°)	272.3	3.1	B1/500		
BM (30°-60°)	314.1	3.6	B1/1000		
BH (60°-80°)	291.5	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°	1940.3	1940.3	1940.3	1940.3	1940.3	1940.3	1940.3	1940.3	1940.3	1940.3	1940.3
2.5°	2040.8	2042.2	2041.5	2043.5	2042.2	2031.9	2021.0	1997.7	1999.8	1969.7	1936.2
5°	1897.2	1908.8	1920.5	1932.1	1960.1	1984.7	2014.1	2021.0	2021.0	1995.0	1945.8
7.5°	1750.9	1751.6	1764.6	1780.3	1817.9	1863.0	1931.4	1992.9	1994.3	2001.1	1947.1
10°	1640.8	1644.2	1653.1	1670.2	1707.8	1752.3	1828.8	1925.2	1932.8	1983.4	1933.4
12.5°	1555.4	1559.5	1569.0	1588.9	1623.1	1668.9	1749.5	1859.6	1869.9	1966.3	1929.3
15°	1489.7	1495.2	1502.7	1522.6	1559.5	1608.0	1696.2	1815.9	1828.2	1959.4	1942.3
17.5°	1462.4	1462.4	1461.7	1475.4	1512.3	1561.5	1653.8	1792.6	1808.3	1964.9	1964.2
20°	1474.0	1472.0	1457.6	1454.2	1476.7	1526.0	1620.3	1777.6	1795.3	1975.2	1990.9
22.5°	1535.5	1531.4	1499.3	1472.6	1465.8	1498.6	1597.8	1767.3	1788.5	1996.3	2026.4
25°	1666.1	1653.8	1609.4	1549.2	1495.2	1491.8	1582.0	1761.8	1784.4	2021.0	2065.4
27.5°	1835.7	1832.3	1761.2	1680.5	1576.6	1514.4	1577.2	1757.7	1780.3	2038.7	2096.8
30°	2046.3	2047.6	1965.6	1860.3	1703.0	1577.9	1592.3	1755.7	1778.9	2040.1	2110.5
32.5°	2263.7	2265.0	2196.7	2083.9	1876.0	1687.3	1634.7	1765.3	1786.5	2034.6	2109.8
35°	2472.9	2474.9	2433.9	2343.0	2107.1	1839.1	1714.7	1798.1	1813.1	2038.0	2108.5
37.5°	2737.5	2745.7	2695.1	2610.3	2397.0	2062.0	1845.3	1864.4	1876.7	2066.1	2118.7
40°	3188.7	3177.7	3032.8	2889.2	2711.5	2333.4	2033.9	1978.6	1982.7	2138.5	2157.7
42.5°	3714.4	3700.8	3452.6	3205.1	3034.9	2660.9	2275.3	2153.6	2152.9	2260.2	2242.5
45°	4167.0	4158.8	3897.7	3567.4	3393.1	3022.5	2572.7	2405.9	2397.7	2470.8	2397.0
47.5°	4488.4	4481.5	4283.9	3953.0	3807.4	3420.4	2943.9	2749.8	2732.7	2746.3	2647.9
50°	4519.8	4512.3	4443.2	4230.6	4291.5	4004.3	3402.7	3200.3	3178.4	3157.2	3027.3
52.5°	4225.8	4225.1	4261.4	4247.7	4630.6	4755.7	3965.3	3757.5	3731.5	3677.5	3548.3
55°	3624.9	3621.5	3758.9	3958.5	4623.0	5531.0	4823.4	4420.7	4386.5	4278.5	4108.9
57.5°	2648.6	2630.8	2917.9	3341.1	4298.3	5870.1	6185.9	5244.5	5187.8	4845.2	4584.1
60°	1462.4	1469.2	1838.4	2339.6	3529.2	5803.1	7439.8	6205.1	6056.0	5334.1	5070.9
62.5°	819.7	836.8	1111.7	1520.5	2250.0	5259.5	8112.5	7858.2	7499.3	5904.3	5686.2
65°	620.1	630.4	768.5	1173.2	1418.6	3675.5	8219.9	10169.7	9860.0	6768.4	6665.9
67.5°	583.9	592.1	659.8	972.9	1292.2	1906.1	7411.8	11537.1	11576.1	7947.1	7424.8
68°	588.0	598.2	665.9	936.0	1290.1	1705.1	7067.2	11543.9	11626.7	8137.2	7398.8
70°	540.1	542.8	704.2	918.2	1250.5	1343.4	5112.6	10752.9	10901.3	8363.5	6716.5
72.5°	206.5	207.2	315.9	795.1	1309.9	1351.0	2575.4	8498.8	8506.3	7278.5	5236.3
75°	107.3	90.2	99.1	248.9	1251.1	1316.8	1292.2	5803.1	5766.8	4922.5	3208.5
77.5°	73.8	62.9	66.3	86.1	520.3	1316.1	933.2	3337.0	3329.5	2094.1	915.4
80°	41.7	36.2	39.7	72.5	182.5	1235.4	869.6	1434.4	1351.6	367.8	148.4
82.5°	21.2	17.8	21.2	60.8	113.5	777.3	845.7	562.7	501.1	87.5	96.4
85°	5.5	5.5	10.3	42.4	70.4	255.0	758.2	406.1	365.1	38.3	68.4
87.5°	1.4	0.7	4.1	15.7	25.3	55.4	420.5	226.3	194.8	19.8	39.7
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°	1940.3	1940.3	1940.3	1940.3	1940.3	1940.3	1940.3	1940.3	1940.3	1940.3	1940.3
2.5°	1922.5	1903.4	1865.8	1823.4	1793.3	1760.5	1741.3	1718.1	1700.3	1684.6	1696.2
5°	1915.7	1878.8	1795.3	1701.7	1623.1	1547.9	1491.8	1438.5	1398.1	1372.8	1383.1
7.5°	1897.9	1843.2	1707.8	1561.5	1433.0	1312.0	1213.5	1125.3	1057.0	1020.1	1031.7
10°	1867.8	1790.6	1608.7	1405.6	1225.8	1054.9	908.6	777.3	678.2	631.7	642.7
12.5°	1845.9	1744.1	1506.1	1255.2	1018.7	776.0	581.8	431.4	354.1	307.7	311.8
15°	1836.4	1707.8	1410.4	1096.6	792.4	498.4	314.5	227.7	201.0	191.4	192.1
17.5°	1837.7	1679.1	1319.5	931.9	564.0	286.5	192.8	173.7	169.6	167.5	167.5
20°	1841.1	1650.4	1225.2	760.3	361.0	184.6	160.7	154.5	152.5	149.7	150.4
22.5°	1851.4	1628.5	1130.1	588.0	222.2	150.4	142.2	136.7	133.3	129.2	129.9
25°	1867.1	1612.1	1036.5	423.2	156.6	131.3	123.7	116.2	110.1	105.3	106.0
27.5°	1876.7	1588.9	936.6	288.5	129.9	114.9	104.6	94.3	87.5	83.4	82.7
30°	1869.9	1551.3	823.2	189.4	114.9	99.1	86.8	75.2	68.4	64.9	64.9
32.5°	1851.4	1502.7	698.0	138.1	101.9	85.5	70.4	60.2	55.4	53.3	54.0
35°	1830.2	1452.1	564.7	116.9	91.6	72.5	57.4	49.2	47.2	46.5	46.5
37.5°	1818.6	1408.4	436.9	106.0	82.0	60.2	47.2	42.4	40.3	40.3	40.3
40°	1831.6	1374.9	323.4	97.8	72.5	49.9	39.7	36.2	35.6	35.6	35.6
42.5°	1887.0	1363.3	236.6	90.9	62.9	41.7	34.2	31.4	30.8	31.4	31.4
45°	1995.0	1388.6	179.1	84.1	54.0	34.2	29.4	27.3	27.3	28.0	28.0
47.5°	2178.2	1453.5	147.0	77.3	45.1	28.7	25.3	23.9	23.9	24.6	24.6
50°	2462.6	1573.8	132.0	69.7	37.6	24.6	21.2	20.5	20.5	21.2	21.9
52.5°	2894.7	1802.9	124.4	62.2	30.8	20.5	17.8	17.1	17.8	18.5	18.5
55°	3375.3	2096.2	115.5	54.7	26.0	17.1	14.4	14.4	15.0	16.4	16.4
57.5°	3823.1	2379.2	107.3	45.1	22.6	13.7	11.6	11.6	13.0	14.4	14.4
60°	4296.2	2656.8	96.4	36.2	19.1	10.9	9.6	9.6	11.6	13.0	13.7
62.5°	4880.8	2979.5	82.0	28.7	15.0	8.2	6.8	8.9	10.9	13.0	13.0
65°	5725.8	3380.8	64.3	22.6	11.6	6.2	5.5	8.2	10.3	12.3	13.0
67.5°	6032.8	3329.5	48.5	18.5	8.9	4.8	4.8	7.5	10.3	12.3	12.3
68°	5920.7	3217.4	46.5	17.8	8.2	4.8	4.8	7.5	10.3	12.3	12.3
70°	5159.0	2630.1	38.3	13.7	6.8	4.1	4.1	6.8	10.3	11.6	12.3
72.5°	3862.8	1747.5	32.8	8.9	6.2	4.1	3.4	6.8	9.6	11.6	11.6
75°	2215.8	725.4	28.0	6.8	5.5	3.4	3.4	6.2	9.6	11.6	11.6
77.5°	626.3	169.6	22.6	5.5	4.8	3.4	2.7	6.2	8.9	10.9	10.9
80°	114.9	50.6	17.8	4.8	4.1	3.4	2.7	6.2	8.9	10.9	10.9
82.5°	75.9	23.9	13.0	4.8	4.1	3.4	2.7	5.5	8.2	10.3	10.3
85°	56.7	17.1	8.2	4.8	4.1	3.4	2.7	5.5	8.2	10.3	10.3
87.5°	31.4	7.5	6.2	5.5	4.8	3.4	2.7	4.8	7.5	9.6	9.6
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)