

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: P198577

Luminaire Tested: **XNV2-AF-02-LED-U-SL4-7030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198577  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24284)  
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-SL4-7030-1200  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11171 lumens  
Efficiency: N/A  
Efficacy: 87.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G3

Input Watts (W): 128  
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

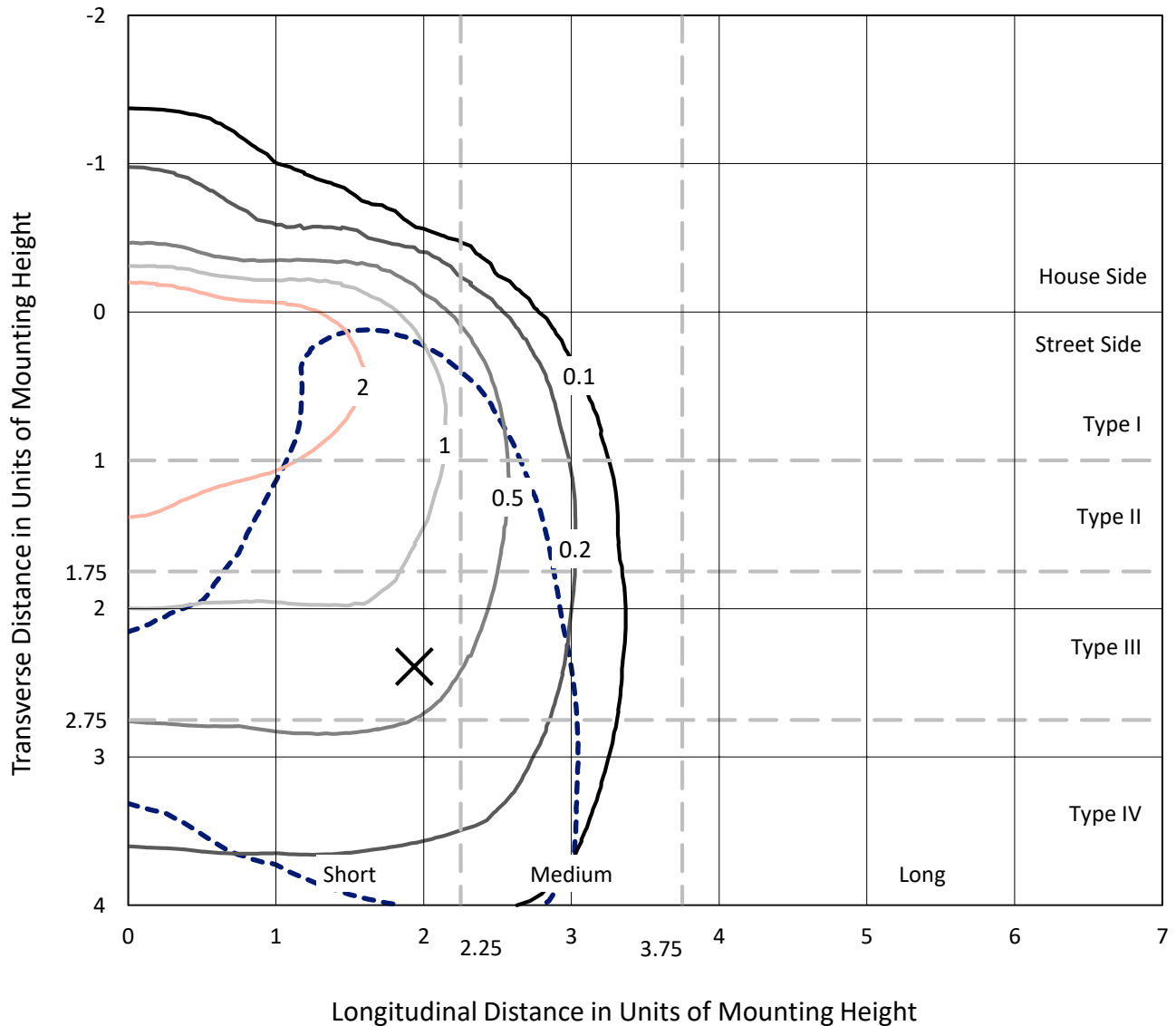


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

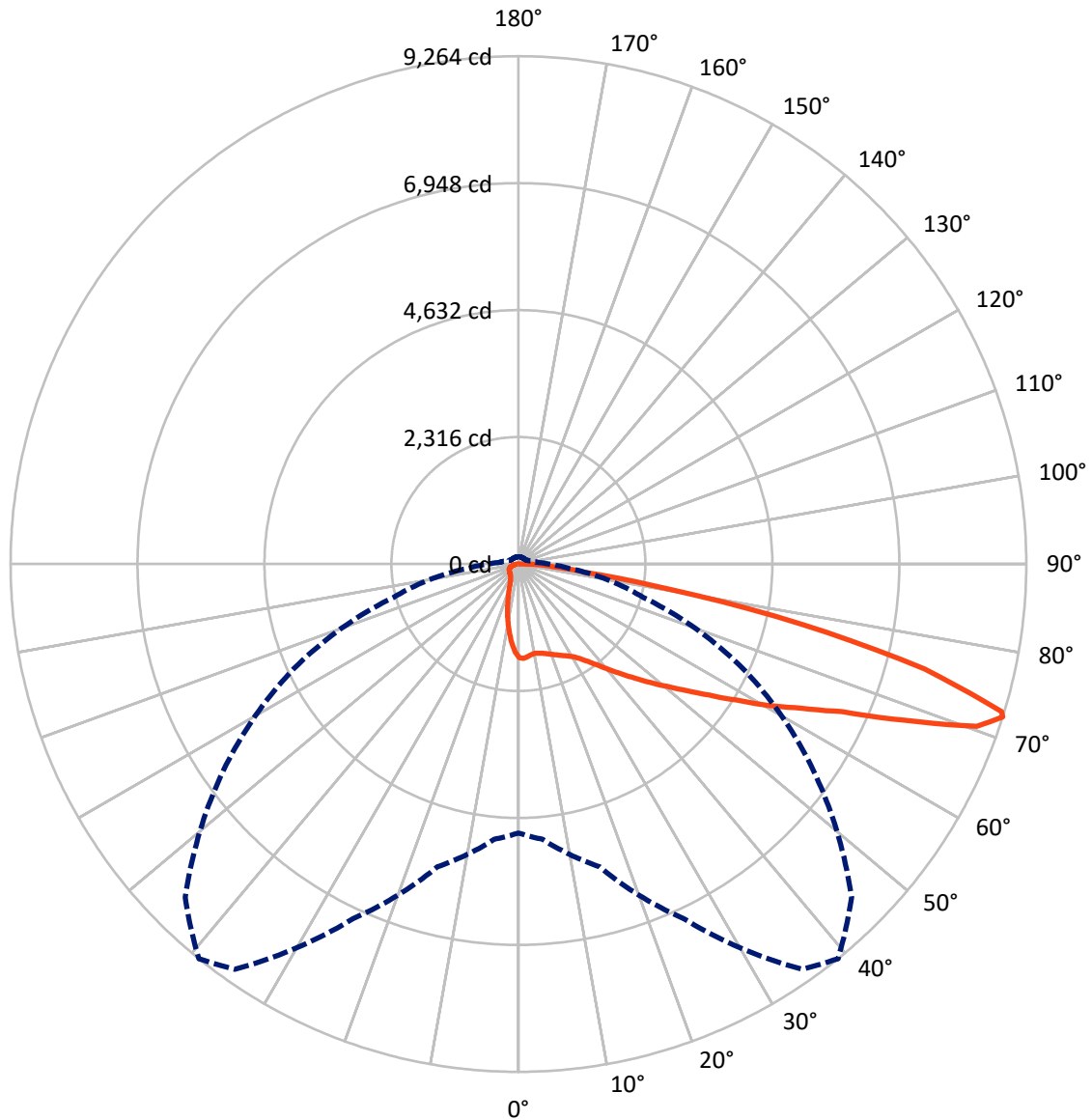


Based on 20 foot mounting height. Maximum calculated value = 4.3 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 72-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1280.9	0.0	1280.9
	% Fixture	11.5	0.0	11.5
<b>Street Side</b>	Lumens	9890.1	0.0	9890.1
	% Fixture	88.5	0.0	88.5
<b>Total</b>	Lumens	11171.0	0.0	11171.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.6	1.3
10°-20°	368.4	3.3
20°-30°	574.1	5.1
30°-40°	883.9	7.9
40°-50°	1441.0	12.9
50°-60°	2239.2	20.0
60°-70°	2997.1	26.8
70°-80°	2155.3	19.3
80°-90°	365.4	3.3
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°	11171.0	100.0
0°-180°	11171.0	100.0

**Coefficient of Utilization**



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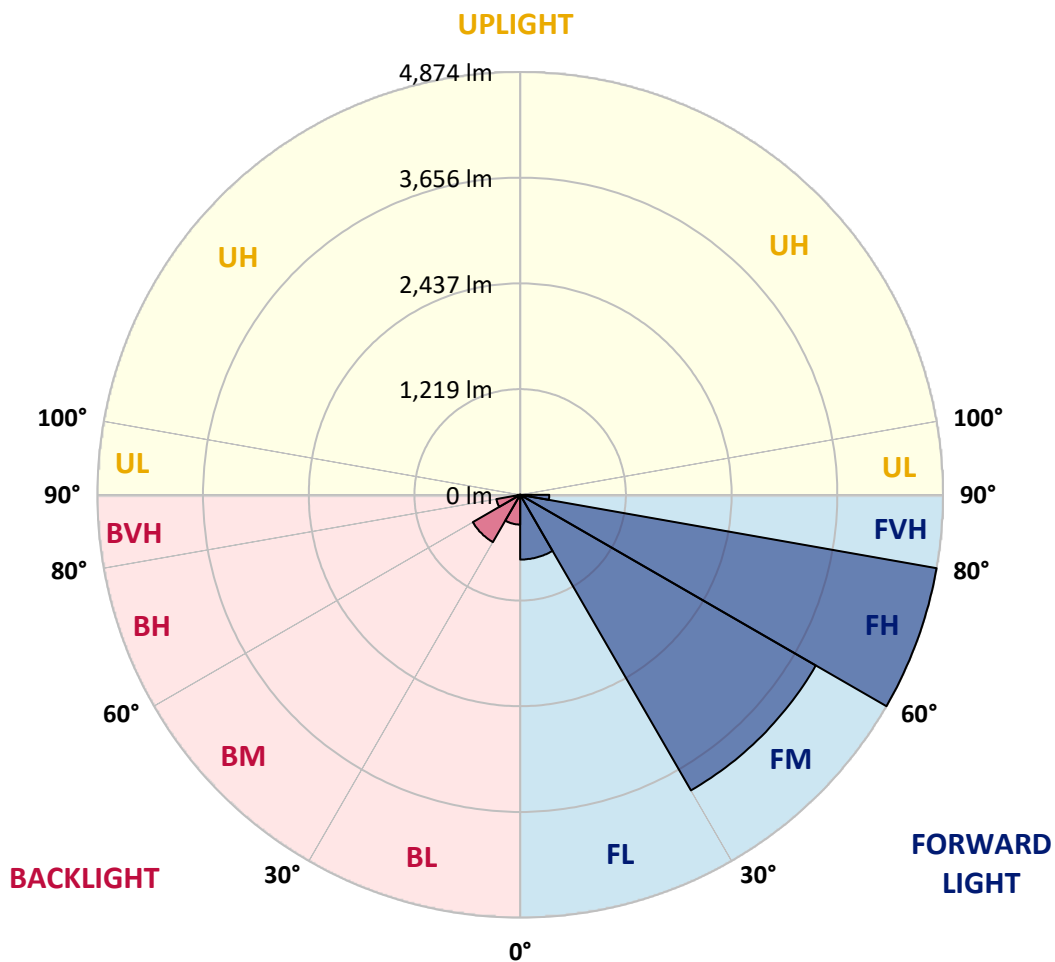
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	746.2	6.7			
FM	(30°-60°)	3934.6	35.2			
FH	(60°-80°)	4874.1	43.6			G2/5000
FVH	(80°-90°)	335.2	3.0			G3/500
BL	(0°-30°)	342.9	3.1	B1/500		
BM	(30°-60°)	629.5	5.6	B1/1000		
BH	(60°-80°)	278.3	2.5	B1/500		G1/500
BVH	(80°-90°)	30.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1706.0	1706.0	1706.0	1706.0	1706.0	1706.0	1706.0	1706.0	1706.0	1706.0	1706.0
2.5°	1742.8	1743.5	1741.3	1734.5	1728.5	1725.5	1720.3	1711.3	1699.3	1691.0	1684.3
5°	1726.3	1728.5	1727.0	1715.8	1705.3	1699.3	1691.0	1678.3	1662.5	1655.8	1640.0
7.5°	1713.5	1715.0	1710.5	1697.8	1677.5	1670.0	1655.0	1638.5	1624.3	1614.5	1595.8
10°	1704.5	1706.0	1702.3	1689.5	1667.0	1658.0	1640.0	1622.0	1603.3	1591.3	1570.3
12.5°	1691.8	1694.8	1694.8	1688.8	1673.8	1667.8	1649.8	1630.3	1613.0	1600.3	1574.0
15°	1689.5	1693.3	1700.0	1699.3	1694.8	1690.3	1676.0	1656.5	1641.5	1626.5	1594.3
17.5°	1708.3	1716.5	1730.0	1734.5	1731.5	1721.8	1705.3	1687.3	1670.8	1656.5	1616.8
20°	1755.5	1760.0	1780.3	1789.3	1774.3	1760.0	1738.3	1715.0	1700.0	1688.8	1637.8
22.5°	1826.7	1832.7	1849.2	1850.0	1818.5	1801.2	1773.5	1745.0	1730.8	1726.3	1666.3
25°	1940.7	1939.2	1943.7	1925.0	1868.0	1847.7	1814.0	1781.0	1771.3	1780.3	1708.3
27.5°	2077.2	2073.5	2059.2	2010.5	1924.2	1898.0	1857.5	1828.2	1828.2	1849.2	1765.3
30°	2234.7	2230.9	2184.4	2102.7	1991.0	1961.0	1918.2	1887.5	1903.2	1943.7	1842.5
32.5°	2401.2	2387.7	2322.4	2212.9	2086.2	2053.2	2012.0	1980.5	2010.5	2079.5	1953.5
35°	2557.9	2550.4	2470.2	2340.4	2209.2	2181.4	2153.0	2114.0	2161.9	2269.2	2110.2
37.5°	2719.9	2713.9	2615.6	2477.7	2359.2	2340.4	2316.4	2289.4	2366.7	2507.7	2322.4
40°	2900.6	2888.6	2764.9	2626.9	2533.9	2524.9	2512.1	2504.7	2629.1	2839.1	2590.9
42.5°	3105.3	3082.1	2922.3	2791.1	2724.4	2731.9	2725.1	2755.1	2945.6	3221.6	2910.3
45°	3339.3	3292.8	3079.1	2965.8	2935.1	2965.1	2979.3	3055.8	3319.8	3663.2	3267.3
47.5°	3558.3	3498.3	3250.8	3155.6	3172.8	3224.6	3265.0	3400.0	3730.0	4099.7	3631.7
50°	3760.0	3692.5	3434.5	3352.0	3436.0	3509.5	3593.5	3784.0	4166.4	4548.9	3966.2
52.5°	3909.2	3860.5	3618.2	3566.5	3738.2	3835.7	3969.9	4210.7	4607.4	4977.1	4264.7
55°	4024.7	3998.4	3797.5	3812.5	4080.2	4219.7	4382.4	4659.1	5073.8	5361.0	4504.6
57.5°	4158.2	4138.7	4002.2	4109.4	4504.6	4680.1	4872.1	5179.5	5517.7	5699.2	4692.8
60°	4299.2	4299.2	4230.2	4467.1	5035.5	5236.5	5427.7	5667.0	5960.2	6003.7	4769.3
62.5°	4405.6	4433.4	4458.1	4848.1	5539.5	5789.2	5999.2	6228.6	6418.4	6153.6	4589.4
65°	4560.1	4619.4	4758.8	5288.3	6163.4	6490.3	6773.8	6966.5	6789.6	6034.4	4002.2
67.5°	4825.6	4913.3	5210.3	5943.7	7118.8	7608.4	7883.7	7550.7	6716.8	5283.8	3065.6
70°	5064.8	5188.5	5696.2	6775.3	8360.6	8869.0	8742.3	7415.0	5849.9	3873.2	1886.0
72°	4905.8	5040.8	5718.7	7137.5	9024.2	9264.2	8596.1	6571.3	4520.4	2363.7	929.9
72.5°	4801.6	4941.8	5646.0	7128.5	9042.2	9214.0	8392.8	6236.1	4103.4	2068.2	752.1
75°	4011.2	4131.2	4854.8	6317.9	7968.4	7653.4	6549.6	4035.9	1886.0	668.2	386.9
77.5°	2619.4	2710.9	3347.5	4377.1	5581.5	5278.5	3986.4	1889.7	707.2	405.7	291.0
80°	1316.1	1381.3	1791.5	2301.4	3012.3	2771.6	1840.2	914.1	473.2	293.2	228.7
82.5°	915.6	975.6	1233.6	1175.1	1259.1	1218.6	865.4	762.6	354.0	185.2	120.0
85°	767.9	830.1	1020.6	837.6	685.4	624.7	620.2	720.6	234.0	91.5	101.2
87.5°	669.7	764.1	842.1	611.9	470.2	414.7	456.7	660.7	74.2	50.2	30.7
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°	1706.0	1706.0	1706.0	1706.0	1706.0	1706.0	1706.0	1706.0	1706.0	1706.0	1706.0
2.5°	1673.0	1670.8	1659.5	1642.3	1629.5	1621.3	1605.5	1604.8	1606.3	1592.8	1598.0
5°	1625.8	1616.8	1587.5	1547.8	1515.5	1484.8	1451.0	1439.8	1430.1	1409.8	1412.1
7.5°	1576.3	1560.5	1509.5	1444.3	1382.1	1325.1	1268.8	1241.1	1220.1	1193.8	1193.8
10°	1547.0	1522.3	1444.3	1349.1	1250.1	1166.8	1082.8	1032.6	995.9	962.1	959.9
12.5°	1545.5	1508.0	1399.3	1268.1	1132.3	1015.4	900.6	823.4	768.6	728.9	725.1
15°	1557.5	1505.0	1361.8	1192.3	1021.4	869.1	727.4	629.2	559.4	515.2	510.7
17.5°	1568.0	1501.3	1321.3	1112.8	913.4	728.1	570.7	468.7	402.7	366.7	362.9
20°	1577.8	1493.0	1269.6	1028.9	794.1	596.2	446.2	363.7	320.2	300.0	297.7
22.5°	1592.0	1485.5	1215.6	934.4	677.2	485.2	368.2	309.0	285.7	276.0	274.5
25°	1615.3	1486.3	1163.1	837.6	569.9	404.2	318.7	282.0	269.2	262.5	262.5
27.5°	1649.0	1495.3	1111.3	739.4	479.2	348.7	289.5	267.7	259.5	254.2	252.7
30°	1698.5	1511.8	1056.6	646.4	407.2	310.5	272.2	258.7	252.0	247.5	246.7
32.5°	1770.5	1541.0	998.9	561.7	352.5	283.5	259.5	251.2	246.0	242.2	241.5
35°	1877.7	1592.8	942.6	489.7	313.5	264.0	249.0	242.2	239.2	237.7	237.0
37.5°	2035.2	1676.0	889.4	433.4	288.0	251.2	238.5	234.7	233.2	233.2	233.2
40°	2233.2	1785.5	841.4	393.7	273.7	241.5	231.0	228.0	228.0	228.7	228.7
42.5°	2473.9	1922.7	800.1	366.7	265.5	234.7	225.7	224.2	223.5	223.5	224.2
45°	2753.6	2084.7	774.6	345.7	259.5	231.0	222.0	221.2	218.2	216.7	216.7
47.5°	3034.8	2257.9	773.1	333.7	252.0	226.5	218.2	218.2	212.2	209.2	210.0
50°	3297.3	2413.2	789.6	330.7	247.5	219.7	214.5	215.2	207.0	203.2	202.5
52.5°	3508.8	2531.6	809.9	334.5	247.5	213.7	207.7	211.5	202.5	198.0	197.2
55°	3672.2	2614.1	817.4	342.7	250.5	208.5	201.7	207.7	201.0	195.0	195.0
57.5°	3789.2	2640.4	785.1	346.5	255.0	207.7	195.7	207.0	203.2	195.7	195.7
60°	3746.5	2488.2	665.2	332.2	254.2	206.2	191.2	208.5	210.7	202.5	202.5
62.5°	3412.8	2081.7	533.9	300.0	241.5	201.0	186.0	207.0	216.0	213.0	211.5
65°	2778.4	1526.8	413.9	261.7	219.7	189.7	174.7	193.5	204.0	207.0	207.7
67.5°	1958.0	966.6	321.7	222.7	192.7	173.2	162.0	171.0	174.7	176.2	179.2
70°	1070.9	523.4	255.7	187.5	165.0	156.7	148.5	149.2	147.7	146.2	147.7
72°	537.7	342.0	216.0	162.7	146.2	141.0	137.2	135.0	135.0	132.7	133.5
72.5°	462.7	318.0	208.5	156.7	141.7	137.2	134.2	132.0	131.2	129.7	130.5
75°	308.2	252.0	174.0	131.2	120.7	117.7	119.2	117.0	117.7	116.2	117.0
77.5°	249.0	216.7	147.7	111.0	103.5	99.0	102.0	102.7	104.2	102.7	102.0
80°	208.5	184.5	123.7	91.5	86.2	82.5	84.0	89.2	90.0	85.5	84.7
82.5°	135.0	148.5	97.5	71.2	66.0	64.5	68.2	73.5	75.0	69.0	67.5
85°	113.2	119.2	70.5	48.7	43.5	42.0	49.5	54.7	58.5	52.5	51.0
87.5°	31.5	58.5	34.5	23.2	19.5	19.5	24.0	28.5	33.7	34.5	34.5
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)