

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: P271326

Luminaire Tested: **XNV2-AF-02-LED-U-SL4-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271326  
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-SL4-7027-1200  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 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: 10964.1 lumens  
Efficiency: N/A  
Efficacy: 85.7 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

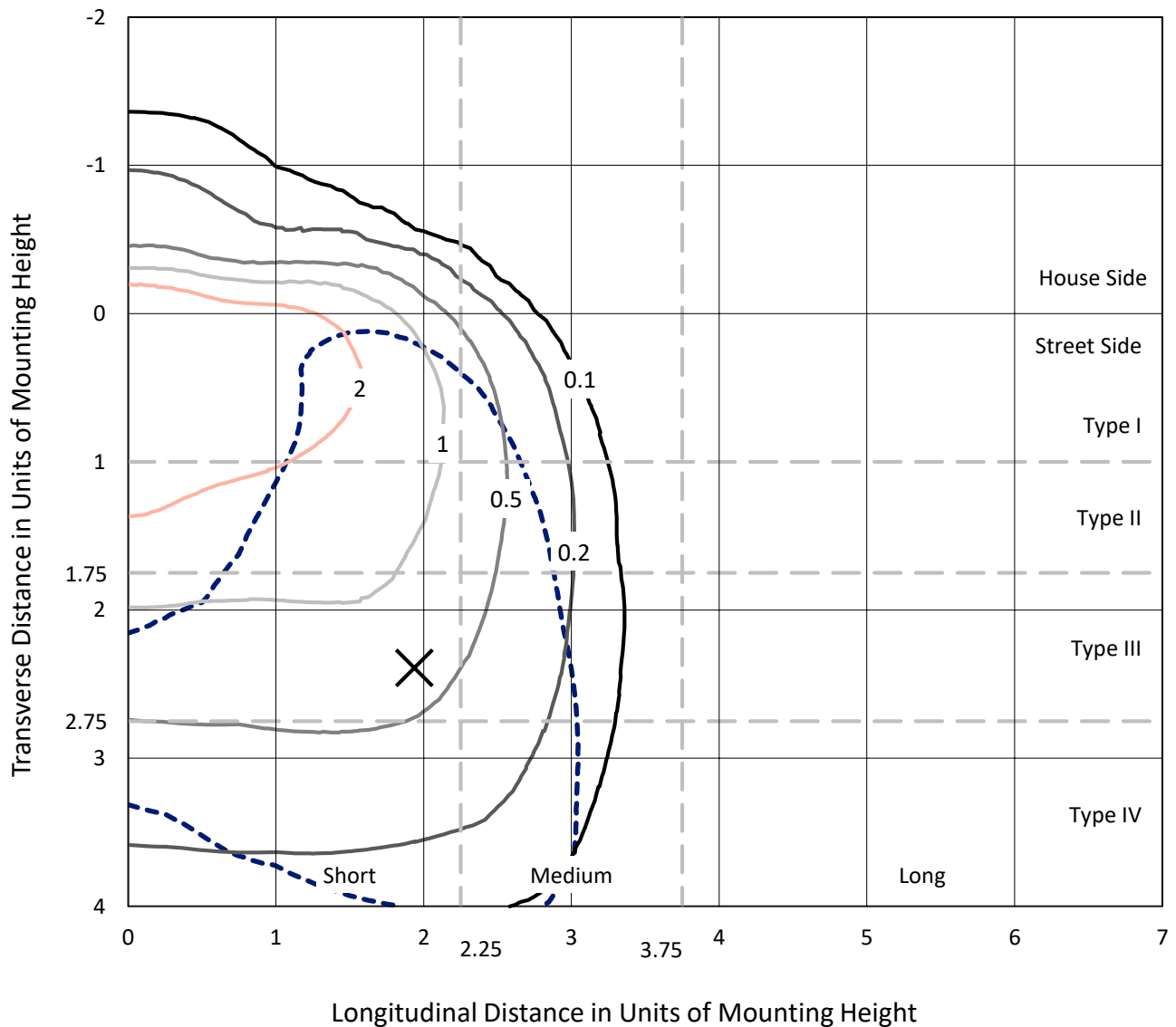
Input Watts (W): 128  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

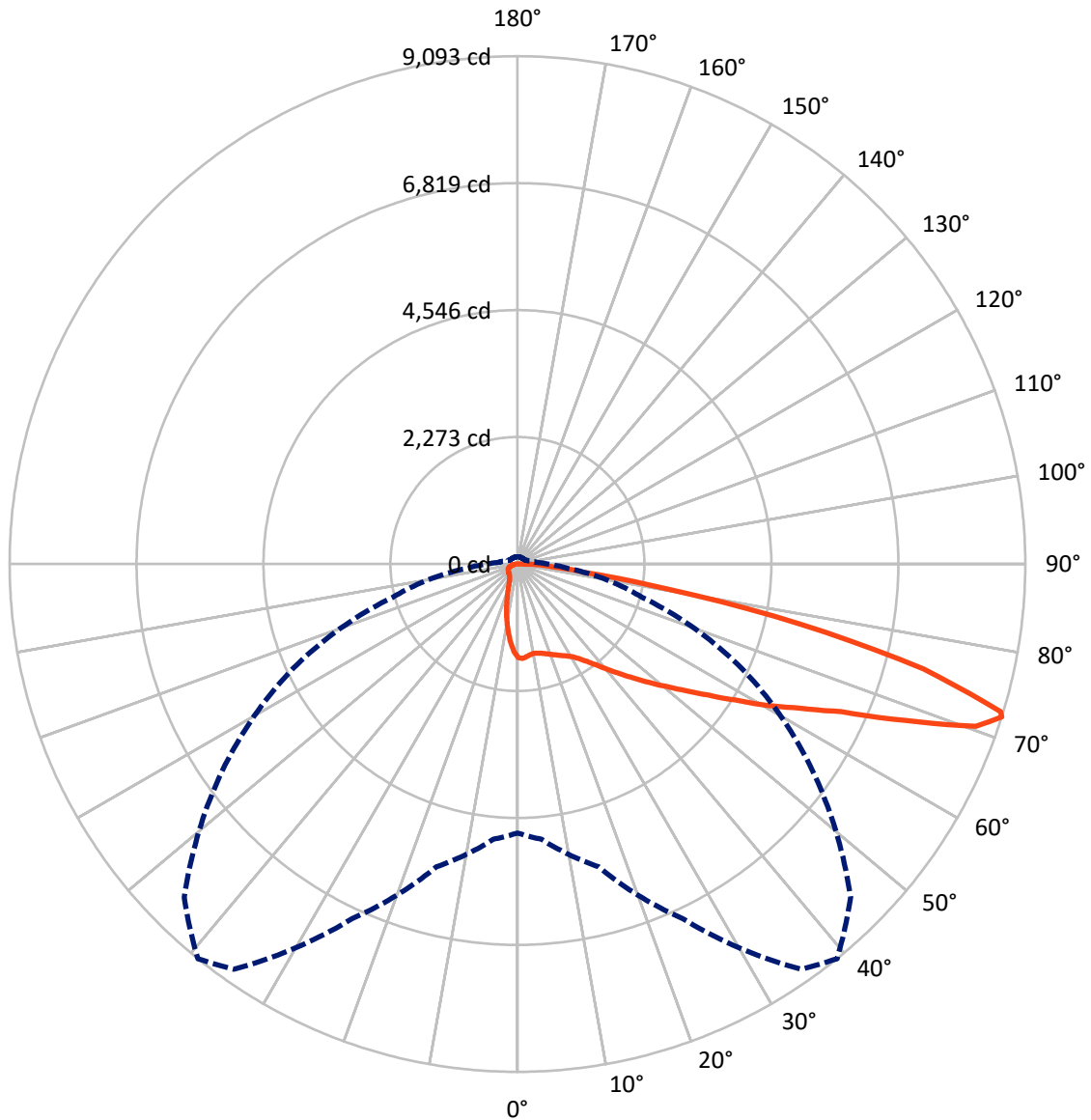


Based on 20 foot mounting height. Maximum calculated value = 4.2 fc  
 Type IV - Short - Non-Cutoff

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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	1257.2	0.0	1257.2
	% Fixture	11.5	0.0	11.5
<b>Street Side</b>	Lumens	9706.9	0.0	9706.9
	% Fixture	88.5	0.0	88.5
<b>Total</b>	Lumens	10964.1	0.0	10964.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.9	1.3
10°-20°	361.6	3.3
20°-30°	563.5	5.1
30°-40°	867.6	7.9
40°-50°	1414.3	12.9
50°-60°	2197.7	20.0
60°-70°	2941.6	26.8
70°-80°	2115.4	19.3
80°-90°	358.6	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°	10964.1	100.0
0°-180°	10964.1	100.0

**Coefficient of Utilization**



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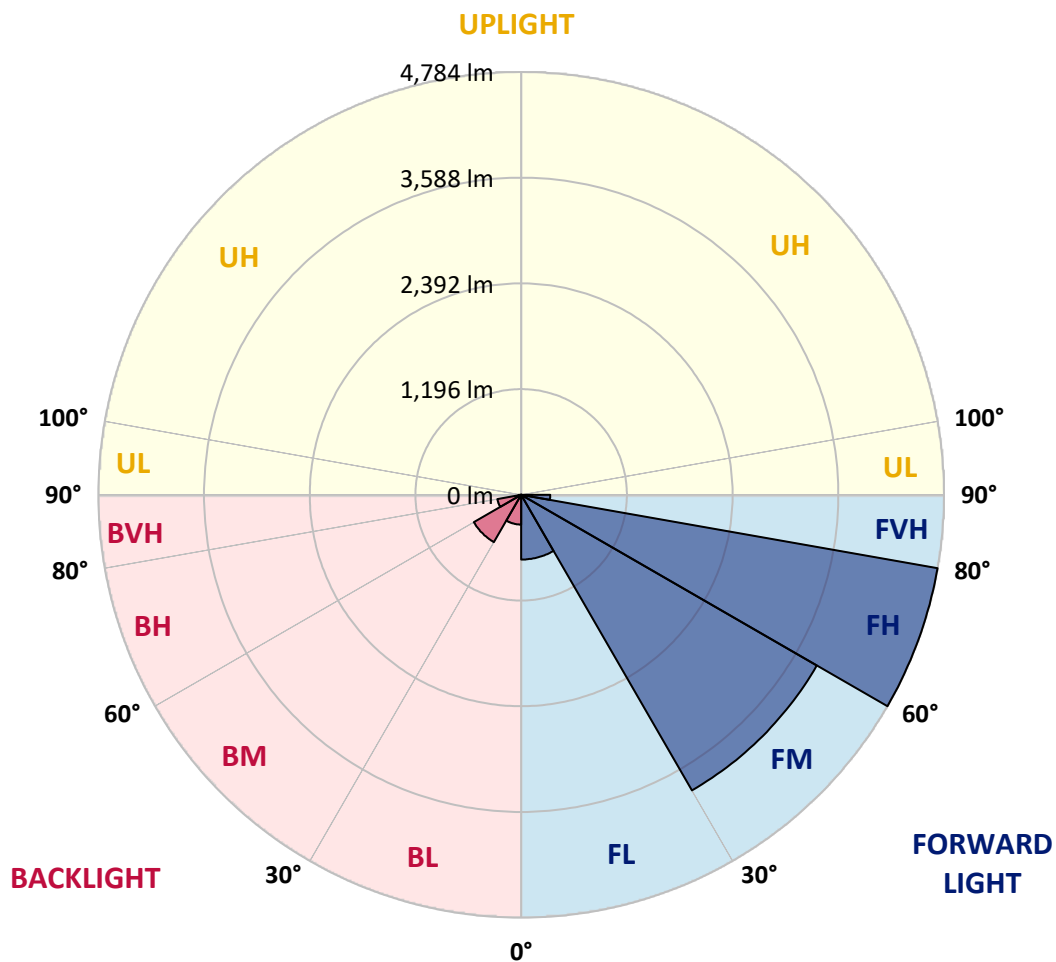
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	732.4	6.7			
FM	(30°-60°)	3861.8	35.2			
FH	(60°-80°)	4783.8	43.6			G2/5000
FVH	(80°-90°)	329.0	3.0			G3/500
BL	(0°-30°)	336.6	3.1	B1/500		
BM	(30°-60°)	617.9	5.6	B1/1000		
BH	(60°-80°)	273.1	2.5	B1/500		G1/500
BVH	(80°-90°)	29.6	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°	1674.4	1674.4	1674.4	1674.4	1674.4	1674.4	1674.4	1674.4	1674.4	1674.4	1674.4
2.5°	1710.6	1711.2	1709.0	1702.4	1696.4	1693.6	1688.5	1679.7	1667.9	1659.7	1653.2
5°	1694.4	1696.4	1695.0	1684.1	1673.7	1667.9	1659.7	1647.2	1631.7	1625.2	1609.7
7.5°	1681.7	1683.2	1678.8	1666.4	1646.5	1639.0	1624.3	1608.1	1594.2	1584.6	1566.3
10°	1673.0	1674.4	1670.8	1658.2	1636.2	1627.3	1609.7	1591.9	1573.7	1561.9	1541.2
12.5°	1660.4	1663.4	1663.4	1657.6	1642.8	1636.9	1619.3	1600.2	1583.2	1570.6	1544.8
15°	1658.2	1662.0	1668.5	1667.9	1663.4	1659.0	1644.9	1625.8	1611.1	1596.4	1564.8
17.5°	1676.6	1684.7	1697.9	1702.4	1699.5	1689.9	1673.7	1656.0	1639.9	1625.8	1586.9
20°	1722.9	1727.4	1747.4	1756.1	1741.5	1727.4	1706.2	1683.2	1668.5	1657.6	1607.4
22.5°	1792.8	1798.8	1814.9	1815.7	1784.8	1767.9	1740.6	1712.7	1698.8	1694.4	1635.5
25°	1904.8	1903.2	1907.7	1889.3	1833.4	1813.5	1780.4	1748.0	1738.5	1747.4	1676.6
27.5°	2038.8	2035.1	2021.0	1973.2	1888.5	1862.8	1823.1	1794.4	1794.4	1814.9	1732.7
30°	2193.3	2189.6	2144.0	2063.8	1954.2	1924.7	1882.7	1852.6	1867.9	1907.7	1808.4
32.5°	2356.8	2343.5	2279.4	2171.9	2047.5	2015.2	1974.7	1943.8	1973.2	2040.9	1917.3
35°	2510.6	2503.1	2424.4	2297.1	2168.2	2141.0	2113.2	2074.8	2121.8	2227.2	2071.1
37.5°	2669.6	2663.7	2567.1	2431.8	2315.6	2297.1	2273.5	2247.0	2322.8	2461.3	2279.4
40°	2846.9	2835.1	2713.7	2578.2	2487.0	2478.2	2465.6	2458.3	2580.4	2786.5	2542.9
42.5°	3047.8	3025.0	2868.2	2739.4	2674.0	2681.4	2674.7	2704.1	2891.0	3161.9	2856.4
45°	3277.5	3231.8	3022.1	2910.9	2880.8	2910.1	2924.2	2999.3	3258.3	3595.3	3206.8
47.5°	3492.4	3433.5	3190.6	3097.1	3114.1	3164.9	3204.6	3337.1	3661.0	4023.8	3564.5
50°	3690.3	3624.1	3370.9	3290.0	3372.3	3444.6	3526.9	3714.0	4089.3	4464.7	3892.7
52.5°	3836.8	3789.1	3551.2	3500.4	3668.9	3764.6	3896.4	4132.7	4522.1	4885.0	4185.7
55°	3950.1	3924.3	3727.2	3741.9	4004.6	4141.5	4301.3	4572.8	4979.8	5261.7	4421.2
57.5°	4081.2	4062.0	3928.1	4033.3	4421.2	4593.5	4781.9	5083.6	5415.5	5593.7	4605.9
60°	4219.6	4219.6	4151.8	4384.4	4942.3	5139.6	5327.2	5562.0	5849.9	5892.5	4681.0
62.5°	4324.0	4351.3	4375.6	4758.3	5436.9	5682.0	5888.1	6113.2	6299.5	6039.7	4504.5
65°	4475.6	4533.8	4670.6	5190.3	6049.2	6370.2	6648.4	6837.4	6663.8	5922.6	3928.1
67.5°	4736.3	4822.3	5113.8	5833.7	6986.9	7467.5	7737.7	7410.8	6592.4	5185.9	3008.9
70°	4971.0	5092.4	5590.7	6649.9	8205.7	8704.8	8580.4	7277.7	5741.5	3801.4	1851.0
72°	4814.9	4947.4	5612.8	7005.3	8857.1	9092.6	8436.9	6449.7	4436.6	2320.0	912.7
72.5°	4712.7	4850.3	5541.5	6996.4	8874.7	9043.3	8237.4	6120.6	4027.5	2029.9	738.1
75°	3936.9	4054.7	4764.9	6200.9	7820.9	7511.6	6428.4	3961.2	1851.0	655.9	379.8
77.5°	2570.9	2660.7	3285.6	4296.1	5478.1	5180.7	3912.6	1854.7	694.1	398.2	285.7
80°	1291.8	1355.7	1758.3	2258.8	2956.5	2720.2	1806.1	897.1	464.5	287.7	224.4
82.5°	898.7	957.6	1210.7	1153.3	1235.8	1196.1	849.3	748.5	347.5	181.7	117.8
85°	753.7	814.8	1001.7	822.0	672.7	613.2	608.7	707.2	229.6	89.8	99.4
87.5°	657.3	749.9	826.5	600.5	461.5	407.0	448.3	648.4	72.9	49.2	30.2
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°	1674.4	1674.4	1674.4	1674.4	1674.4	1674.4	1674.4	1674.4	1674.4	1674.4	1674.4
2.5°	1642.0	1639.9	1628.7	1611.9	1599.3	1591.3	1575.7	1575.1	1576.5	1563.3	1568.4
5°	1595.7	1586.9	1558.1	1519.2	1487.5	1457.3	1424.2	1413.2	1403.6	1383.7	1385.9
7.5°	1547.2	1531.6	1481.6	1417.5	1356.5	1300.6	1245.3	1218.1	1197.5	1171.7	1171.7
10°	1518.3	1494.2	1417.5	1324.1	1226.9	1145.2	1062.8	1013.5	977.4	944.3	942.1
12.5°	1516.9	1480.0	1373.4	1244.6	1111.4	996.6	883.9	808.1	754.3	715.4	711.6
15°	1528.6	1477.2	1336.6	1170.2	1002.5	853.0	714.0	617.6	549.0	505.7	501.3
17.5°	1538.9	1473.5	1296.9	1092.2	896.5	714.6	560.2	460.0	395.3	360.0	356.2
20°	1548.6	1465.3	1246.0	1009.9	779.4	585.2	438.0	356.9	314.2	294.5	292.2
22.5°	1562.5	1457.9	1193.0	917.1	664.7	476.2	361.4	303.3	280.5	270.8	269.4
25°	1585.4	1458.8	1141.6	822.0	559.4	396.7	312.8	276.8	264.2	257.6	257.6
27.5°	1618.4	1467.7	1090.7	725.7	470.4	342.3	284.1	262.8	254.7	249.5	248.0
30°	1667.1	1483.8	1037.1	634.5	399.7	304.7	267.2	254.0	247.4	242.9	242.2
32.5°	1737.7	1512.4	980.4	551.3	345.9	278.3	254.7	246.6	241.5	237.7	237.1
35°	1843.0	1563.3	925.2	480.7	307.7	259.2	244.3	237.7	234.7	233.3	232.7
37.5°	1997.6	1644.9	873.0	425.3	282.6	246.6	234.1	230.3	228.9	228.9	228.9
40°	2191.9	1752.5	825.8	386.5	268.7	237.1	226.7	223.8	223.8	224.4	224.4
42.5°	2428.1	1887.1	785.3	360.0	260.6	230.3	221.5	220.1	219.4	219.4	220.1
45°	2702.6	2046.1	760.2	339.3	254.7	226.7	217.8	217.1	214.2	212.7	212.7
47.5°	2978.6	2216.1	758.8	327.5	247.4	222.3	214.2	214.2	208.2	205.4	206.2
50°	3236.2	2368.6	775.0	324.6	242.9	215.7	210.6	211.2	203.1	199.5	198.7
52.5°	3443.8	2484.7	794.9	328.3	242.9	209.8	203.8	207.6	198.7	194.4	193.6
55°	3604.2	2565.6	802.2	336.3	245.9	204.6	197.9	203.8	197.3	191.3	191.3
57.5°	3719.1	2591.5	770.6	340.1	250.3	203.8	192.1	203.1	199.5	192.1	192.1
60°	3677.1	2442.1	652.9	326.1	249.5	202.4	187.7	204.6	206.8	198.7	198.7
62.5°	3349.6	2043.1	524.0	294.5	237.1	197.3	182.5	203.1	212.0	209.0	207.6
65°	2727.0	1498.6	406.3	256.8	215.7	186.2	171.4	189.9	200.2	203.1	203.8
67.5°	1921.7	948.7	315.8	218.6	189.2	170.0	159.0	167.9	171.4	173.0	175.9
70°	1051.0	513.7	250.9	184.1	162.0	153.8	145.7	146.5	144.9	143.5	144.9
72°	527.8	335.6	212.0	159.7	143.5	138.3	134.7	132.5	132.5	130.3	131.1
72.5°	454.2	312.2	204.6	153.8	139.1	134.7	131.7	129.5	128.7	127.3	128.1
75°	302.5	247.4	170.8	128.7	118.4	115.5	117.0	114.9	115.5	114.1	114.9
77.5°	244.3	212.7	144.9	109.0	101.6	97.1	100.2	100.8	102.2	100.8	100.2
80°	204.6	181.1	121.5	89.8	84.6	80.9	82.5	87.6	88.4	83.9	83.2
82.5°	132.5	145.7	95.7	69.9	64.8	63.3	67.0	72.1	73.7	67.7	66.3
85°	111.1	117.0	69.2	47.8	42.7	41.2	48.6	53.7	57.4	51.6	50.0
87.5°	30.9	57.4	33.9	22.7	19.1	19.1	23.5	27.9	33.1	33.9	33.9
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)