

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: P198875

Luminaire Tested: **XNV2-AF-02-LED-U-SL3-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198875  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24262)  
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-SL3-7050-600  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7935 lumens  
Efficiency: N/A  
Efficacy: 120.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 66  
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

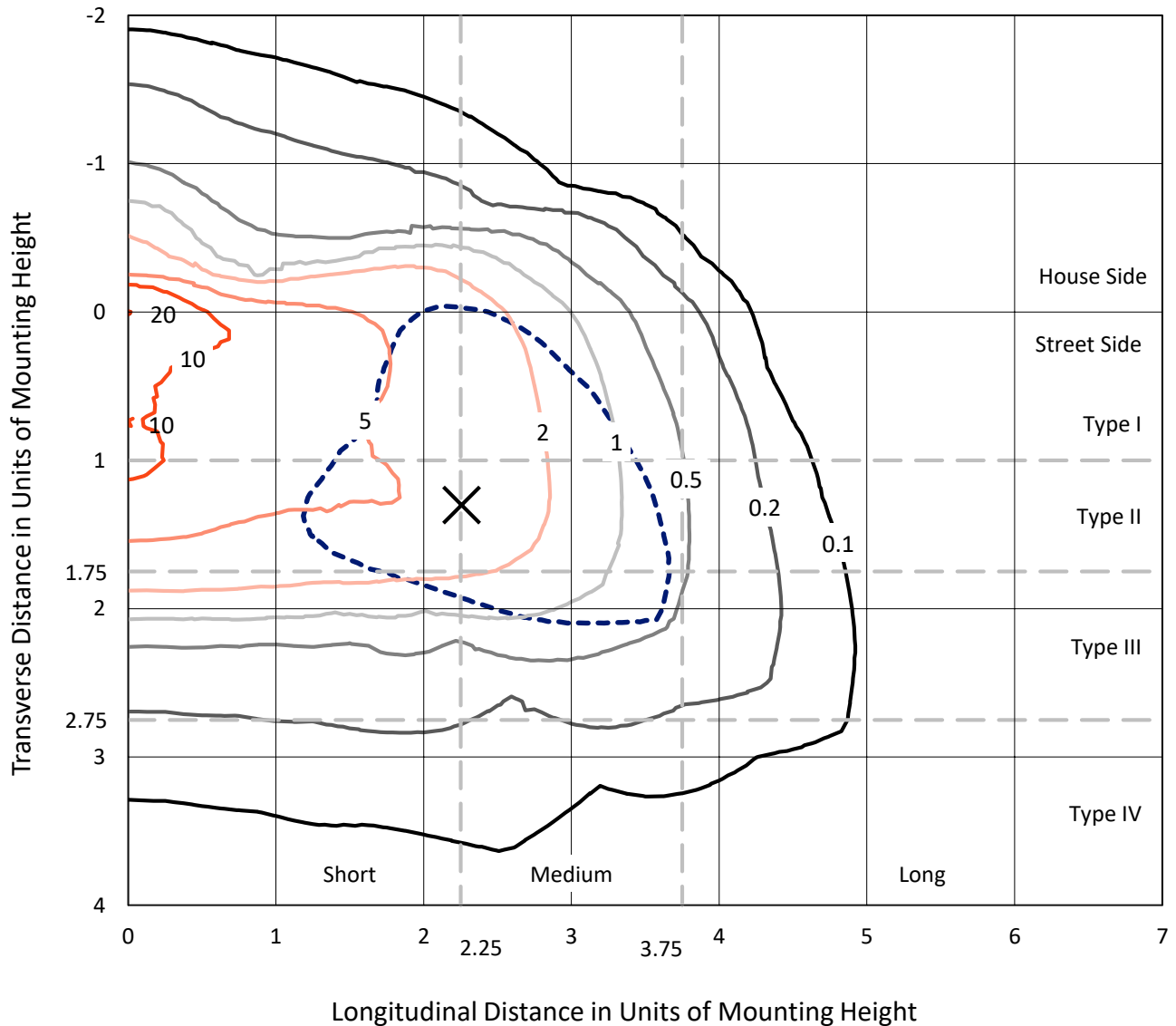


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

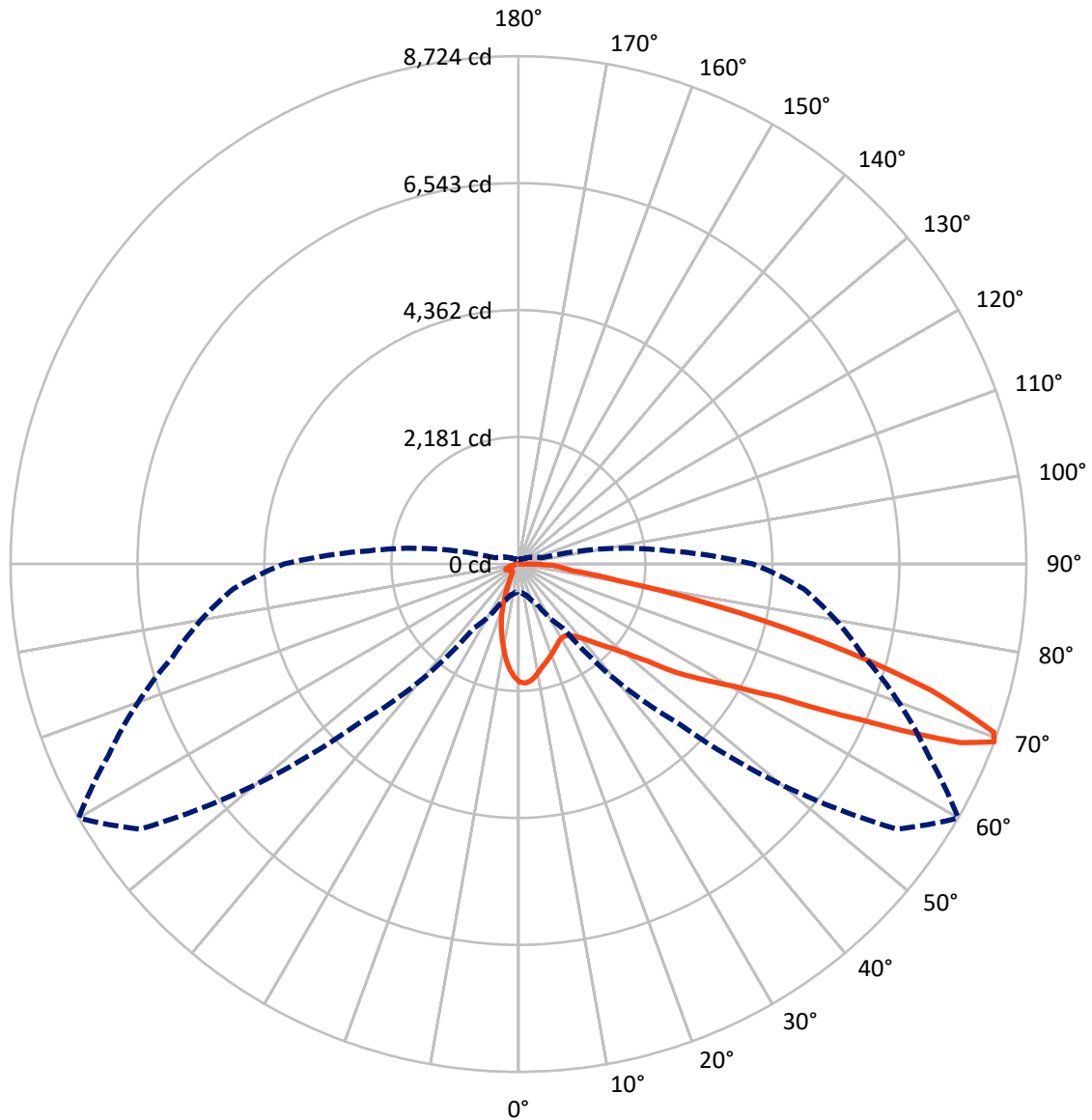


Based on 10 foot mounting height. Maximum calculated value = 20.2 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1131.8	0.0	1131.8
	% Fixture	14.3	0.0	14.3
<b>Street Side</b>	Lumens	6803.2	0.0	6803.2
	% Fixture	85.7	0.0	85.7
<b>Total</b>	Lumens	7935.0	0.0	7935.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.8	2.2
10°-20°	367.8	4.6
20°-30°	469.1	5.9
30°-40°	645.6	8.1
40°-50°	1045.7	13.2
50°-60°	1641.2	20.7
60°-70°	2188.0	27.6
70°-80°	1217.0	15.3
80°-90°	188.8	2.4
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°	7935.0	100.0
0°-180°	7935.0	100.0



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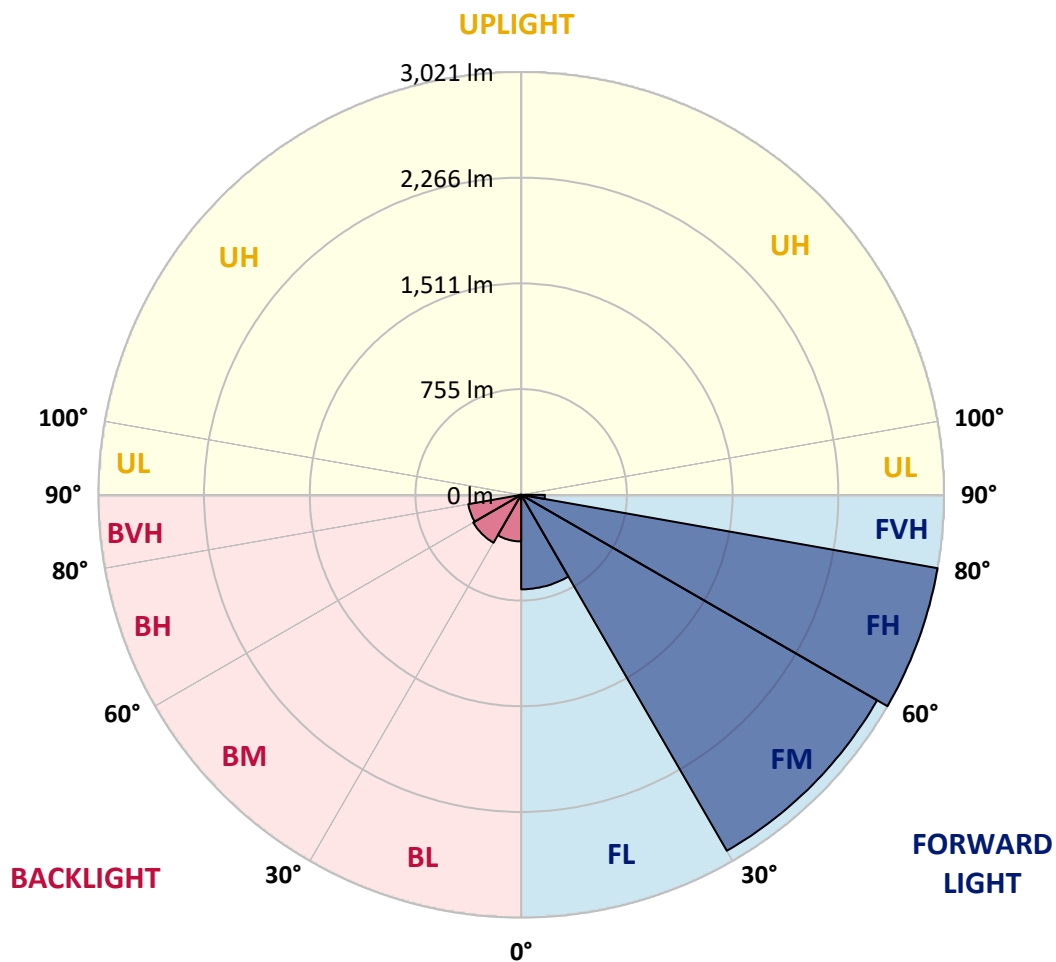
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	675.1	8.5			
FM (30°-60°)	2937.1	37.0			
FH (60°-80°)	3021.3	38.1			G2/5000
FVH (80°-90°)	169.6	2.1			G2/225
BL (0°-30°)	333.5	4.2	B1/500		
BM (30°-60°)	395.4	5.0	B1/1000		
BH (60°-80°)	383.7	4.8	B1/500		G1/500
BVH (80°-90°)	19.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	2024.6	2024.6	2024.6	2024.6	2024.6	2024.6	2024.6	2024.6	2024.6	2024.6	2024.6
2.5°	2078.6	2084.2	2084.2	2079.6	2077.1	2062.3	2053.6	2047.5	2036.9	2017.0	1999.2
5°	2004.3	2015.0	2019.6	2021.6	2034.8	2030.2	2030.7	2026.7	2017.5	1996.1	1967.1
7.5°	1867.9	1870.0	1878.1	1891.8	1923.9	1946.3	1964.6	1968.2	1966.1	1950.4	1909.6
10°	1733.6	1737.2	1746.8	1770.2	1800.8	1832.8	1872.5	1888.8	1901.0	1895.9	1844.5
12.5°	1622.2	1622.7	1633.3	1660.3	1694.4	1734.6	1788.5	1814.0	1843.0	1854.7	1797.2
15°	1514.8	1521.9	1532.1	1564.7	1606.9	1657.8	1719.9	1755.0	1793.1	1826.7	1760.6
17.5°	1433.4	1439.0	1445.1	1472.0	1520.9	1584.5	1661.3	1699.0	1749.4	1800.8	1722.9
20°	1388.6	1390.6	1386.1	1399.3	1440.5	1509.2	1598.2	1643.5	1703.6	1775.8	1684.2
22.5°	1379.4	1379.4	1362.7	1360.1	1378.4	1436.4	1533.1	1588.6	1661.8	1758.5	1649.6
25°	1422.2	1419.1	1387.6	1358.6	1352.0	1381.5	1471.0	1539.2	1626.2	1758.0	1623.7
27.5°	1503.1	1499.0	1459.8	1411.0	1368.8	1356.0	1423.2	1492.9	1598.2	1775.3	1610.5
30°	1603.8	1602.3	1562.6	1501.6	1431.9	1366.2	1404.4	1469.0	1579.4	1807.4	1609.9
32.5°	1714.3	1707.1	1682.7	1621.6	1531.1	1422.7	1415.6	1470.0	1574.3	1854.2	1621.6
35°	1831.8	1826.7	1820.6	1759.0	1657.3	1522.4	1464.9	1505.1	1599.3	1919.3	1654.7
37.5°	1981.4	1975.8	1986.0	1918.8	1807.4	1653.2	1548.4	1575.3	1650.1	2014.0	1716.3
40°	2247.5	2231.2	2202.7	2099.4	1982.4	1813.5	1669.0	1673.0	1737.2	2140.7	1815.0
42.5°	2684.6	2632.2	2491.2	2301.4	2167.1	1999.7	1826.2	1806.9	1857.2	2308.1	1958.5
45°	3122.7	3063.7	2825.5	2521.8	2358.4	2199.7	2020.6	1974.3	2006.8	2502.9	2143.2
47.5°	3405.6	3376.6	3107.9	2742.1	2558.9	2417.5	2242.9	2166.6	2190.0	2723.8	2371.2
50°	3488.5	3463.6	3252.5	2914.6	2748.2	2680.5	2518.2	2416.9	2421.0	2981.8	2644.4
52.5°	3426.5	3416.3	3276.4	3021.4	2922.2	2957.8	2899.3	2758.4	2724.8	3264.7	2940.5
55°	3343.5	3347.1	3293.2	3128.8	3099.3	3216.3	3398.0	3284.5	3142.0	3559.3	3248.9
57.5°	3082.5	3085.0	3226.5	3333.4	3437.2	3578.6	3786.2	3738.4	3572.5	3877.3	3594.4
60°	2482.1	2501.9	2816.9	3291.1	3823.4	4292.5	4343.4	4261.0	4030.5	4243.7	4043.7
62.5°	1773.3	1791.1	2155.9	2857.1	3778.1	5100.5	5372.2	5044.6	4651.7	4791.7	4675.7
65°	931.7	928.6	1211.0	1974.3	3182.2	5287.8	6993.4	6435.7	5698.4	5545.2	5286.3
67.5°	520.5	537.3	646.7	995.8	2074.0	4653.8	8028.9	8193.2	7153.7	6143.1	5259.8
69°	481.4	487.0	560.2	769.9	1352.0	3839.6	7939.8	8723.9	7767.3	6145.7	4920.9
70°	467.6	473.7	540.4	709.3	1135.7	3146.1	7615.7	8661.8	7916.4	6009.3	4612.6
72.5°	419.3	427.4	492.0	637.6	957.1	1621.6	6134.5	7413.7	7171.0	5252.2	3576.6
75°	357.7	371.4	469.1	633.0	906.7	1030.9	4091.0	5523.4	5337.1	3756.2	2029.2
77.5°	148.1	149.6	205.1	463.5	951.5	986.6	2198.7	3498.7	3097.3	1647.1	611.1
80°	103.3	101.3	102.3	135.3	767.8	993.2	1128.1	1779.4	1383.0	434.5	286.0
82.5°	87.0	86.0	90.1	85.0	260.0	1127.1	943.4	927.6	651.3	234.1	136.4
85°	57.5	56.0	73.8	77.3	123.6	895.0	1014.6	729.2	485.4	125.2	58.0
87.5°	28.0	28.5	42.2	52.4	65.6	283.4	971.9	576.5	375.0	54.4	23.4
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°	2024.6	2024.6	2024.6	2024.6	2024.6	2024.6	2024.6	2024.6	2024.6	2024.6	2024.6
2.5°	1992.1	1976.8	1963.1	1945.8	1932.5	1921.3	1906.1	1905.6	1903.0	1906.6	1907.6
5°	1947.8	1922.4	1883.7	1840.4	1809.9	1769.7	1730.5	1717.3	1702.6	1701.0	1705.6
7.5°	1881.1	1841.5	1775.3	1709.2	1643.0	1575.3	1511.2	1478.7	1447.1	1437.4	1442.0
10°	1806.9	1756.5	1655.2	1547.4	1454.2	1353.5	1255.8	1192.7	1135.2	1110.8	1116.9
12.5°	1748.9	1684.7	1542.3	1402.3	1262.9	1118.4	989.7	865.0	770.9	728.6	731.2
15°	1699.0	1617.1	1436.4	1250.2	1075.7	877.7	699.1	554.6	472.2	441.7	440.6
17.5°	1645.1	1545.8	1326.0	1108.7	882.3	637.6	468.1	382.6	350.1	339.9	339.9
20°	1587.6	1472.6	1210.5	954.6	678.8	445.2	352.1	319.0	306.8	303.8	303.3
22.5°	1534.1	1400.8	1094.5	790.2	491.0	337.9	299.7	287.0	284.9	287.5	287.5
25°	1491.9	1337.7	977.0	617.2	357.2	282.9	266.6	265.1	272.7	281.9	283.4
27.5°	1460.3	1281.2	860.9	450.8	280.9	246.3	240.7	247.3	265.1	283.4	287.0
30°	1438.5	1232.9	722.0	324.1	234.1	215.7	218.3	230.0	257.0	284.9	292.6
32.5°	1428.8	1193.7	582.1	248.8	200.0	189.8	196.4	211.7	239.7	267.6	276.8
35°	1438.0	1165.2	452.9	206.6	175.0	167.4	175.0	190.8	209.1	222.9	228.5
37.5°	1471.0	1155.0	340.9	183.2	158.8	151.1	157.2	167.9	176.1	181.1	183.7
40°	1540.7	1165.7	267.1	171.0	149.6	140.9	142.5	147.6	153.2	157.2	157.7
42.5°	1651.7	1200.8	237.6	166.4	144.0	132.8	130.3	133.8	139.9	145.5	146.5
45°	1799.2	1259.4	234.6	167.9	141.5	126.2	121.1	124.7	132.8	142.0	143.5
47.5°	1990.0	1352.0	248.8	176.1	143.0	122.6	115.0	118.6	129.2	141.5	143.5
50°	2216.0	1480.2	275.3	188.3	150.1	122.6	112.5	115.5	126.7	140.4	142.5
52.5°	2482.1	1658.8	302.8	200.5	160.3	127.2	113.5	113.0	123.1	135.9	138.4
55°	2775.7	1880.6	329.2	211.2	165.9	133.3	116.0	109.9	118.0	128.2	130.3
57.5°	3121.2	2184.4	375.5	221.3	168.9	137.9	119.1	106.9	111.4	118.6	120.1
60°	3589.8	2630.7	465.6	238.6	174.5	139.9	119.6	103.8	103.3	108.4	108.9
62.5°	4200.9	3153.2	551.6	259.0	185.7	140.4	117.5	101.8	96.7	98.2	98.2
65°	4635.5	3345.6	526.6	276.3	195.9	139.9	115.5	100.2	91.6	89.0	89.0
67.5°	4388.2	2955.3	447.3	280.9	196.9	134.3	110.9	96.7	87.0	80.9	80.9
69°	4024.9	2590.5	410.6	272.7	188.8	127.7	105.8	93.1	84.0	76.8	76.8
70°	3728.7	2314.2	388.2	263.1	179.1	122.1	101.3	89.6	80.9	74.8	74.3
72.5°	2783.8	1544.3	331.8	226.9	147.1	103.3	88.5	79.9	72.8	68.7	68.7
75°	1469.0	773.9	271.7	185.2	113.5	82.4	72.8	67.2	63.1	62.6	62.1
77.5°	481.4	350.1	195.4	139.4	83.4	64.1	58.0	54.4	53.9	56.0	56.0
80°	260.0	209.1	125.7	94.1	58.0	47.8	44.8	44.3	45.8	48.8	48.8
82.5°	126.2	103.3	74.8	58.0	39.7	35.1	35.1	35.6	37.7	41.2	41.2
85°	54.4	48.8	43.3	32.6	24.4	21.9	24.9	27.5	29.0	31.5	32.6
87.5°	26.0	22.9	19.8	12.7	10.7	11.2	13.2	16.3	19.3	21.4	21.9
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)