

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: P199183

Luminaire Tested: **XNV2-AF-02-LED-U-SL2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199183
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-SL2-8030
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 80 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: 9647 lumens
Efficiency: N/A
Efficacy: 86.9 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

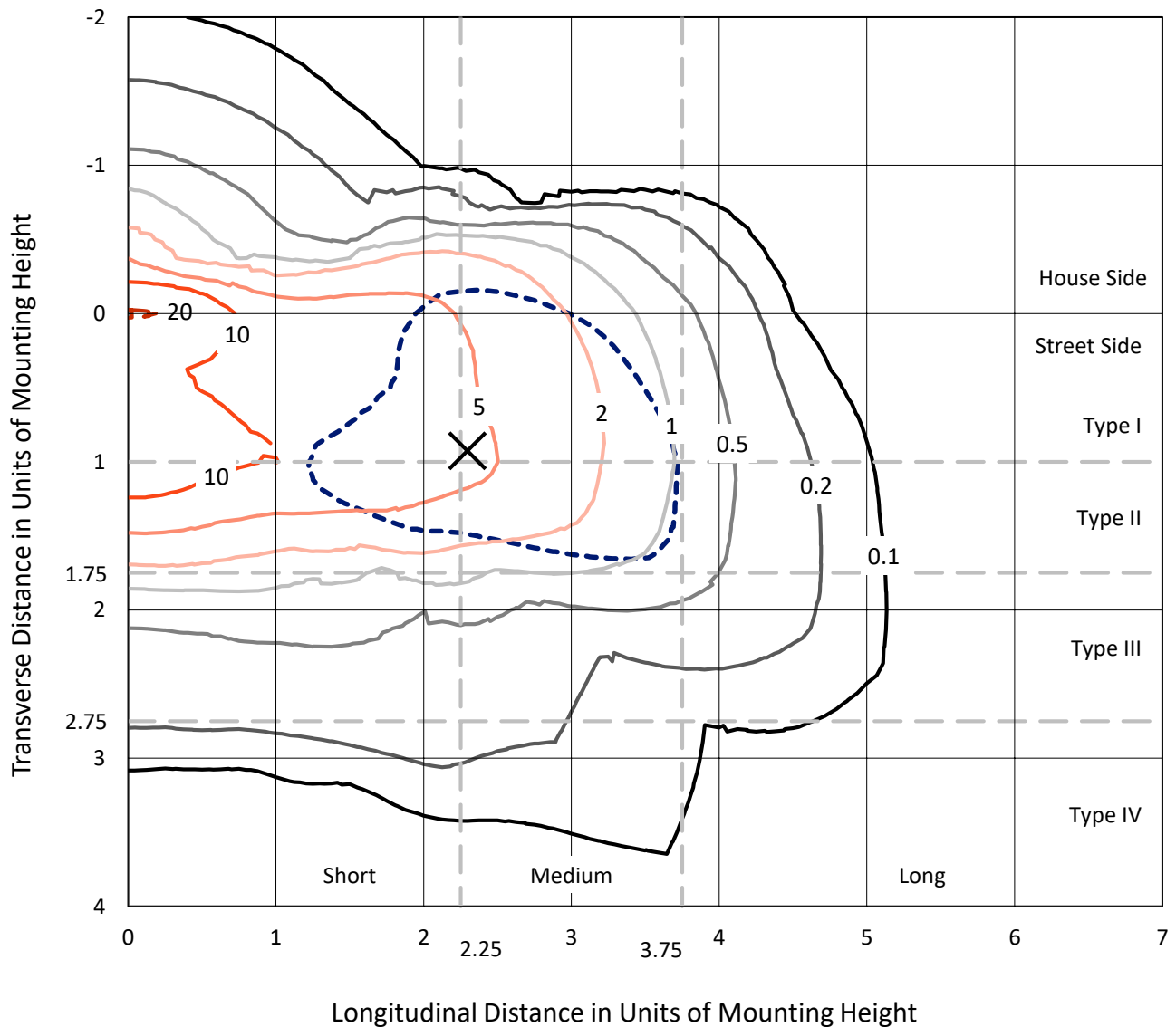
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

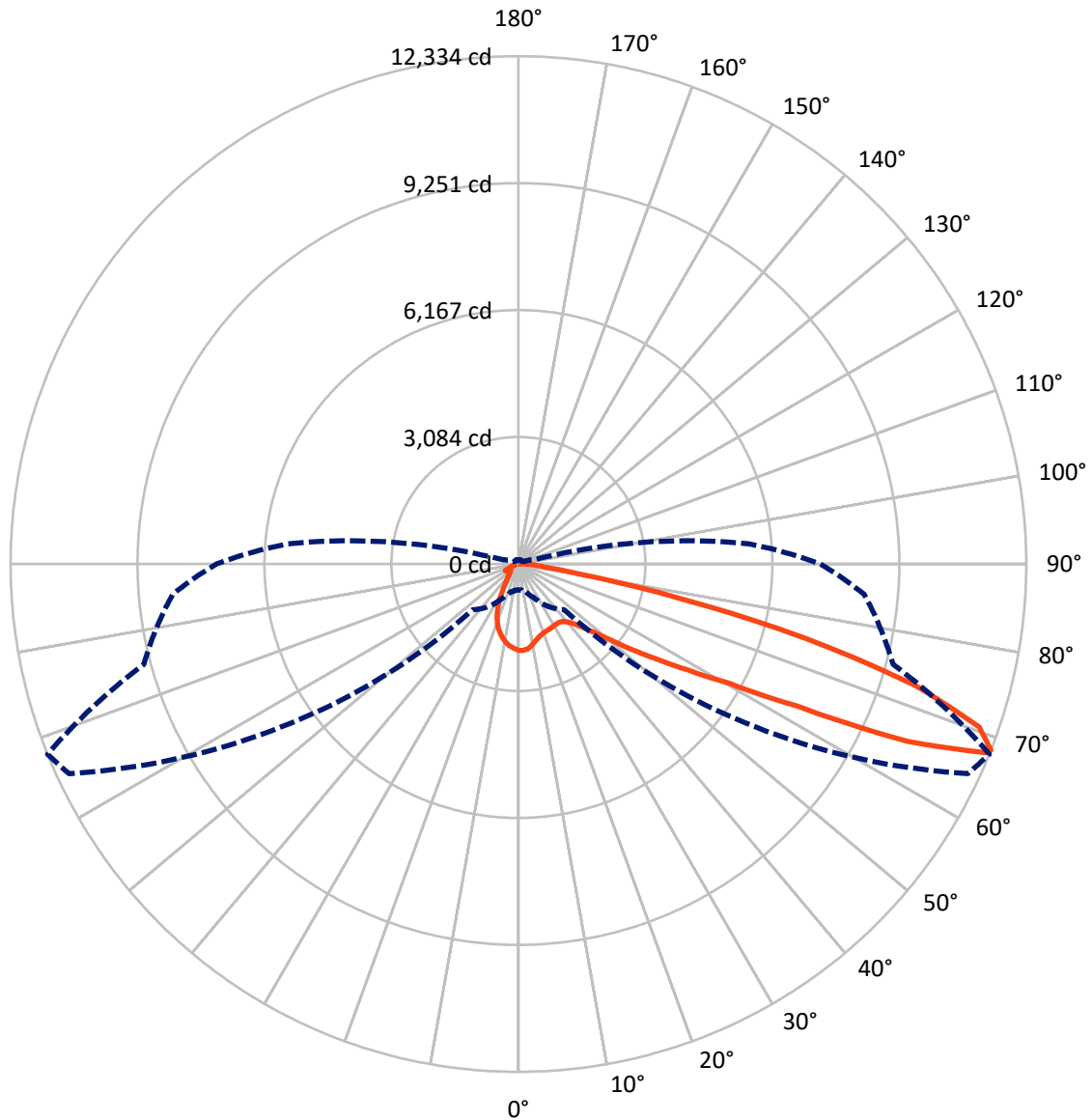
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21 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
House Side	Lumens	1578.3	0.0	1578.3
	% Fixture	16.4	0.0	16.4
Street Side	Lumens	8068.7	0.0	8068.7
	% Fixture	83.6	0.0	83.6
Total	Lumens	9647.0	0.0	9647.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.9	1.9
10°-20°	417.2	4.3
20°-30°	564.2	5.8
30°-40°	795.5	8.2
40°-50°	1308.1	13.6
50°-60°	2027.6	21.0
60°-70°	2629.0	27.3
70°-80°	1508.6	15.6
80°-90°	217.1	2.2
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°	9647.0	100.0
0°-180°	9647.0	100.0

Coefficient of Utilization



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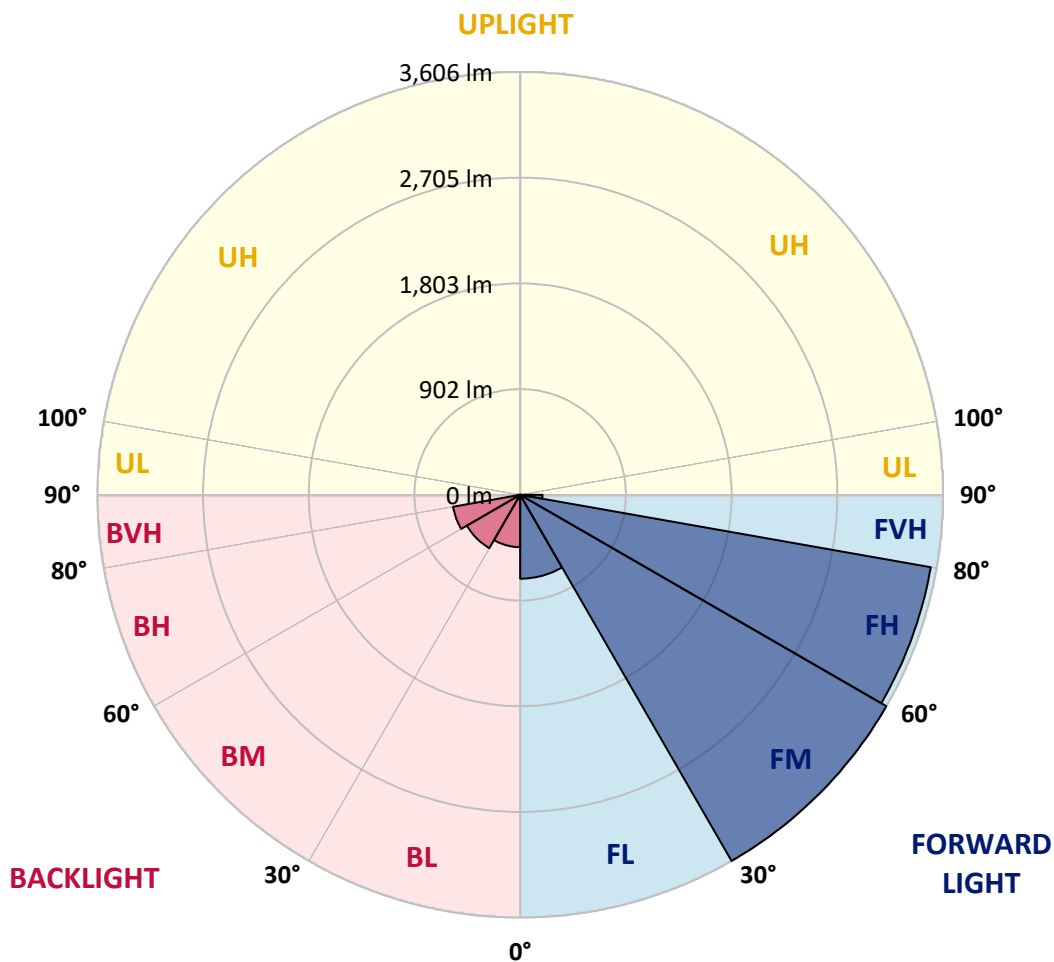
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	715.0	7.4			
FM (30°-60°)	3606.2	37.4			
FH (60°-80°)	3556.3	36.9			G2/5000
FVH (80°-90°)	191.2	2.0			G2/225
BL (0°-30°)	446.2	4.6	B1/500		
BM (30°-60°)	525.0	5.4	B1/1000		
BH (60°-80°)	581.3	6.0	B2/1000		G2/1000
BVH (80°-90°)	25.9	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°	2099.1	2099.1	2099.1	2099.1	2099.1	2099.1	2099.1	2099.1	2099.1	2099.1	2099.1
2.5°	2043.0	2059.4	2059.4	2071.4	2082.1	2090.9	2098.5	2098.5	2098.5	2093.4	2089.0
5°	1828.1	1850.2	1853.3	1883.6	1923.3	1971.8	2026.0	2073.9	2083.3	2101.0	2107.9
7.5°	1678.8	1685.7	1697.7	1718.5	1758.8	1818.7	1903.7	2010.9	2036.7	2092.2	2121.2
10°	1572.9	1578.6	1588.7	1609.5	1646.0	1700.2	1784.0	1923.3	1966.1	2064.4	2121.8
12.5°	1495.4	1499.8	1509.3	1528.2	1565.3	1613.9	1699.6	1844.5	1897.4	2036.7	2130.6
15°	1434.9	1442.5	1450.0	1468.3	1506.1	1552.7	1639.7	1787.2	1844.5	2014.7	2147.0
17.5°	1411.0	1414.7	1416.0	1425.4	1459.5	1506.7	1593.7	1746.8	1806.1	1997.0	2159.6
20°	1426.1	1426.7	1414.1	1407.8	1427.3	1470.8	1555.3	1716.6	1777.1	1981.3	2164.6
22.5°	1492.2	1492.2	1459.5	1431.7	1418.5	1445.6	1529.4	1695.8	1761.3	1969.3	2164.6
25°	1618.3	1612.6	1561.6	1506.7	1448.1	1436.8	1513.0	1682.6	1749.4	1963.0	2156.4
27.5°	1784.0	1779.0	1714.1	1632.8	1526.9	1455.7	1507.4	1671.8	1737.4	1953.5	2138.8
30°	1985.7	1981.3	1907.5	1801.0	1644.7	1515.6	1520.6	1664.3	1727.9	1937.8	2109.2
32.5°	2186.7	2184.2	2125.6	2016.5	1807.3	1617.0	1555.3	1663.0	1722.9	1918.9	2073.3
35°	2389.0	2389.0	2353.1	2261.1	2026.0	1769.5	1627.7	1686.3	1732.3	1908.8	2042.4
37.5°	2687.7	2675.7	2608.9	2513.8	2301.4	1967.4	1744.9	1735.5	1768.9	1925.8	2032.3
40°	3150.2	3115.6	2948.6	2788.5	2602.0	2220.7	1916.4	1830.6	1850.8	1983.8	2056.2
42.5°	3634.2	3579.4	3358.2	3102.3	2912.7	2533.3	2141.3	1985.0	1984.4	2096.0	2132.5
45°	4049.5	4021.1	3781.7	3457.1	3267.4	2884.9	2425.5	2214.4	2191.7	2269.9	2279.3
47.5°	4290.8	4271.9	4127.6	3832.7	3688.4	3300.2	2786.0	2532.7	2489.8	2536.4	2521.9
50°	4224.0	4242.3	4200.7	4050.1	4140.9	3883.7	3245.4	2968.7	2887.4	2934.1	2898.8
52.5°	3872.4	3921.6	3958.7	3987.7	4401.1	4664.5	3822.6	3513.2	3445.8	3437.6	3403.6
55°	3239.1	3317.2	3434.4	3647.4	4331.2	5291.5	4830.9	4171.7	4073.4	4021.8	4035.0
57.5°	2204.3	2322.8	2575.5	2980.7	3967.6	5558.7	6321.9	5022.5	4856.1	4672.1	4714.9
60°	1214.3	1313.3	1613.9	2022.2	3137.6	5519.0	7643.3	6405.1	5881.4	5393.6	5481.9
62.5°	785.8	807.2	1031.0	1381.3	1925.8	4872.5	8377.5	8715.9	7606.2	6345.2	6469.3
65°	631.4	646.6	756.2	1114.1	1341.6	3134.5	8410.3	11113.1	10381.4	7638.3	7642.1
67.5°	616.9	623.9	687.5	937.1	1258.5	1706.5	7269.7	12058.3	12227.8	9164.6	8426.7
68°	625.8	634.0	698.2	908.1	1257.8	1572.9	6718.9	12043.8	12334.3	9419.8	8426.7
70°	552.0	562.1	712.1	939.6	1204.3	1352.3	4600.9	11404.2	11871.8	10006.5	7995.6
72.5°	288.6	280.4	352.3	741.7	1355.5	1409.1	2430.6	9527.6	10073.3	9267.3	6907.9
75°	225.0	204.8	197.2	293.0	1192.3	1461.4	1411.6	6771.8	7184.0	6680.4	4617.3
77.5°	211.7	187.2	172.7	173.3	524.9	1520.6	1141.9	3985.2	3985.2	3186.8	1473.3
80°	170.1	147.5	138.0	157.5	253.3	1401.5	1191.7	1816.2	1549.0	823.6	405.8
82.5°	112.2	100.2	100.8	127.9	192.2	935.8	1380.1	896.7	673.7	364.9	238.8
85°	71.2	61.1	68.1	89.5	143.7	417.2	1366.2	623.2	446.2	204.8	119.1
87.5°	35.9	27.7	34.0	46.6	87.6	119.7	1124.9	556.4	330.8	85.1	64.9
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°	2099.1	2099.1	2099.1	2099.1	2099.1	2099.1	2099.1	2099.1	2099.1	2099.1	2099.1
2.5°	2089.0	2075.2	2068.2	2056.9	2043.0	2029.2	2019.7	2015.3	2012.8	2014.0	2013.4
5°	2104.1	2085.9	2056.2	2014.0	1970.5	1924.5	1889.3	1862.2	1845.1	1840.1	1838.8
7.5°	2115.5	2089.0	2033.6	1956.7	1882.3	1801.7	1733.0	1678.1	1641.0	1624.0	1623.3
10°	2113.6	2079.6	1992.0	1878.5	1769.5	1651.0	1543.3	1451.3	1384.5	1352.3	1351.1
12.5°	2115.5	2068.9	1940.9	1787.2	1630.9	1461.4	1301.3	1158.3	1058.7	1011.4	1009.5
15°	2123.0	2057.5	1888.6	1685.1	1468.9	1229.5	1000.7	821.1	730.4	699.5	699.5
17.5°	2122.4	2038.6	1828.1	1566.6	1276.7	956.0	683.1	572.2	563.4	591.7	596.1
20°	2109.8	2008.4	1750.0	1426.1	1051.1	661.7	463.2	447.4	518.0	596.1	605.0
22.5°	2090.3	1969.3	1659.9	1262.9	788.3	431.0	357.3	381.3	477.0	574.1	587.9
25°	2063.2	1922.0	1556.5	1073.2	524.3	310.0	298.1	327.7	395.1	460.0	470.1
27.5°	2023.5	1862.2	1443.7	867.7	334.6	255.2	259.6	280.4	309.4	337.1	342.8
30°	1973.7	1792.2	1320.8	640.3	254.0	228.1	235.7	248.3	260.9	278.5	282.3
32.5°	1923.3	1721.0	1192.9	439.9	221.8	213.6	221.2	228.1	238.8	250.8	253.3
35°	1877.9	1654.8	1061.2	306.9	208.0	204.2	208.0	212.4	223.1	235.1	236.3
37.5°	1845.1	1600.6	923.8	242.6	199.8	196.0	197.9	199.8	212.4	230.0	231.9
40°	1840.7	1564.7	784.6	218.0	193.5	188.4	187.2	188.4	204.8	225.0	226.9
42.5°	1883.6	1566.6	648.4	208.0	188.4	182.7	177.7	180.2	194.7	210.5	211.7
45°	1985.0	1610.7	530.6	203.5	184.0	179.6	172.0	173.3	180.2	188.4	189.7
47.5°	2164.0	1707.1	440.5	201.0	180.2	176.4	167.0	163.2	163.8	168.3	168.3
50°	2450.1	1868.5	385.7	198.5	177.1	170.1	159.4	151.9	150.0	152.5	153.1
52.5°	2876.7	2145.1	359.2	193.5	171.4	162.0	150.0	142.4	139.3	141.8	141.8
55°	3453.3	2586.9	346.6	186.5	164.5	151.9	141.2	134.9	132.3	134.2	134.2
57.5°	4110.6	3160.9	368.0	177.1	155.7	141.2	133.6	129.2	127.3	129.2	129.8
60°	4891.4	3912.1	515.5	165.1	146.2	131.7	127.3	124.8	123.5	125.4	125.4
62.5°	5929.3	4911.6	797.8	155.7	136.1	122.9	121.6	120.4	119.1	121.0	121.0
65°	7049.7	5820.9	821.1	150.0	127.3	115.3	116.0	116.0	114.7	116.6	116.6
67.5°	7406.4	5742.1	458.8	143.0	116.6	107.8	110.3	110.3	109.6	111.5	110.9
68°	7330.8	5617.3	399.5	141.2	114.7	105.9	108.4	109.0	108.4	110.3	109.6
70°	6767.4	4931.7	262.8	130.4	106.5	99.6	103.3	104.0	103.3	105.9	105.2
72.5°	5586.5	3699.1	194.1	114.1	96.4	91.4	95.2	95.8	96.4	98.9	98.3
75°	3547.9	2043.0	153.1	97.0	86.3	81.9	85.7	87.6	88.9	92.6	90.7
77.5°	971.7	620.1	124.1	82.6	74.4	72.5	75.0	77.5	78.8	83.2	80.0
80°	340.3	274.1	103.3	69.9	61.8	61.1	63.6	66.2	67.4	71.2	67.4
82.5°	206.7	179.0	82.6	54.8	48.5	47.9	51.0	53.6	54.8	54.8	52.3
85°	107.8	94.5	60.5	38.4	33.4	31.5	37.2	40.3	41.0	40.3	38.4
87.5°	60.5	53.6	32.1	18.3	15.1	15.8	19.5	23.9	25.8	25.2	23.9
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)