

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: P199181

Luminaire Tested: **XNV2-AF-02-LED-U-SL2-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199181
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-SL2-8030-800
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 800mA 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: 7794 lumens
Efficiency: N/A
Efficacy: 91.7 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

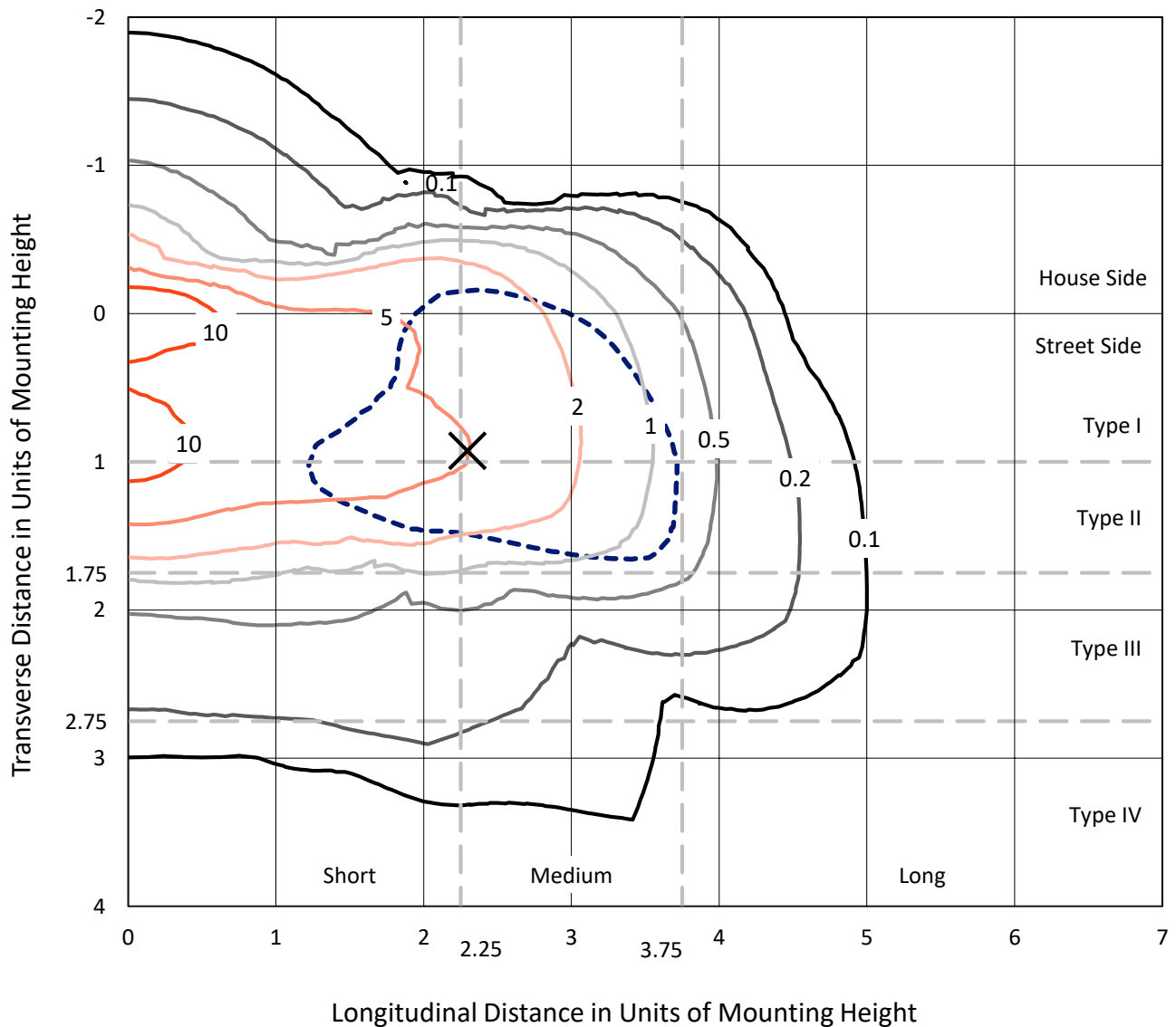
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

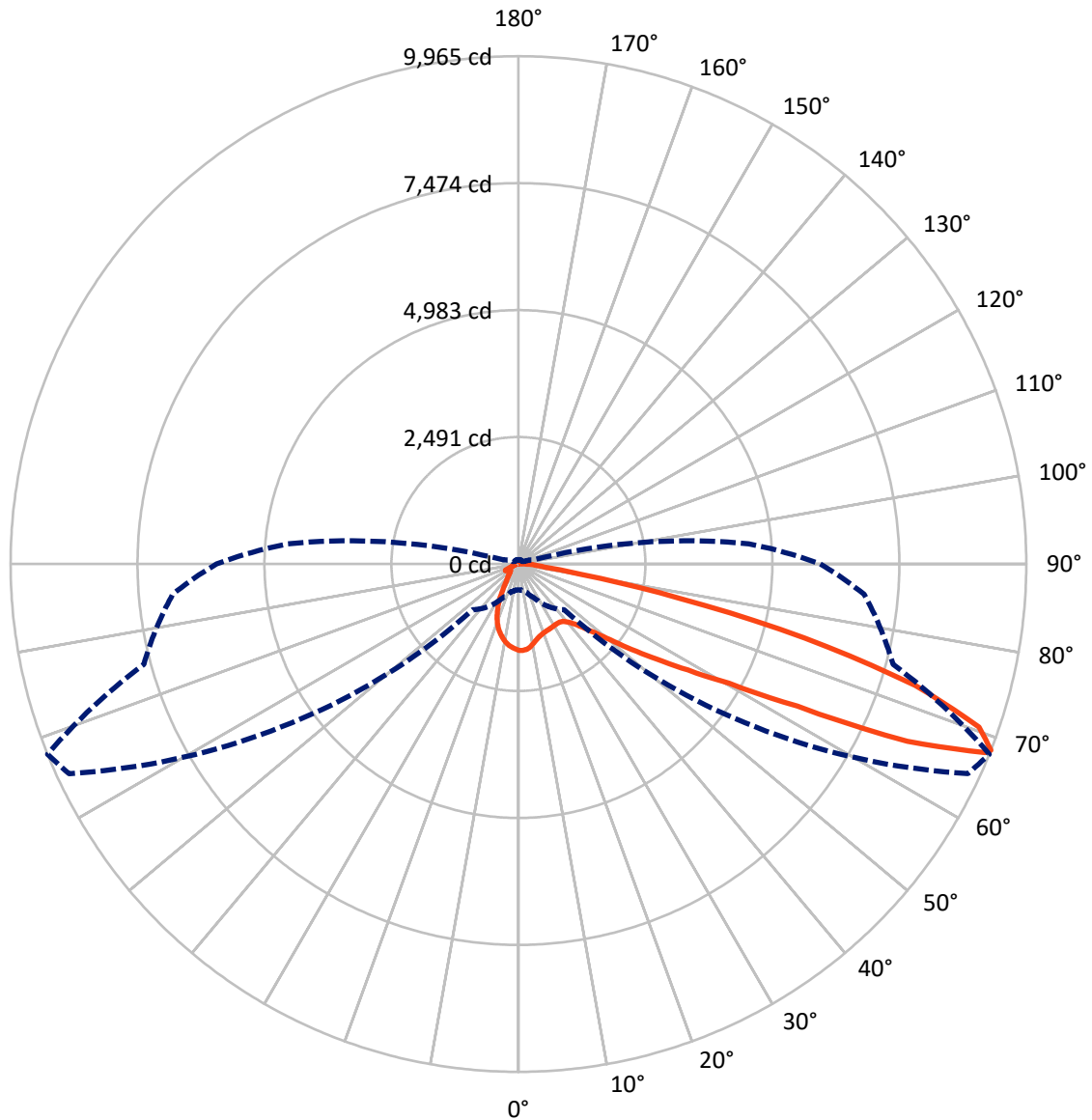


Based on 10 foot mounting height. Maximum calculated value = 17 fc
 Type II - Medium - Semi-Cutoff

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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	1275.1	0.0	1275.1
	% Fixture	16.4	0.0	16.4
Street Side	Lumens	6518.9	0.0	6518.9
	% Fixture	83.6	0.0	83.6
Total	Lumens	7794.0	0.0	7794.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.3	1.9
10°-20°	337.0	4.3
20°-30°	455.8	5.8
30°-40°	642.7	8.2
40°-50°	1056.8	13.6
50°-60°	1638.1	21.0
60°-70°	2124.0	27.3
70°-80°	1218.9	15.6
80°-90°	175.4	2.3
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°	7794.0	100.0
0°-180°	7794.0	100.0

Coefficient of Utilization



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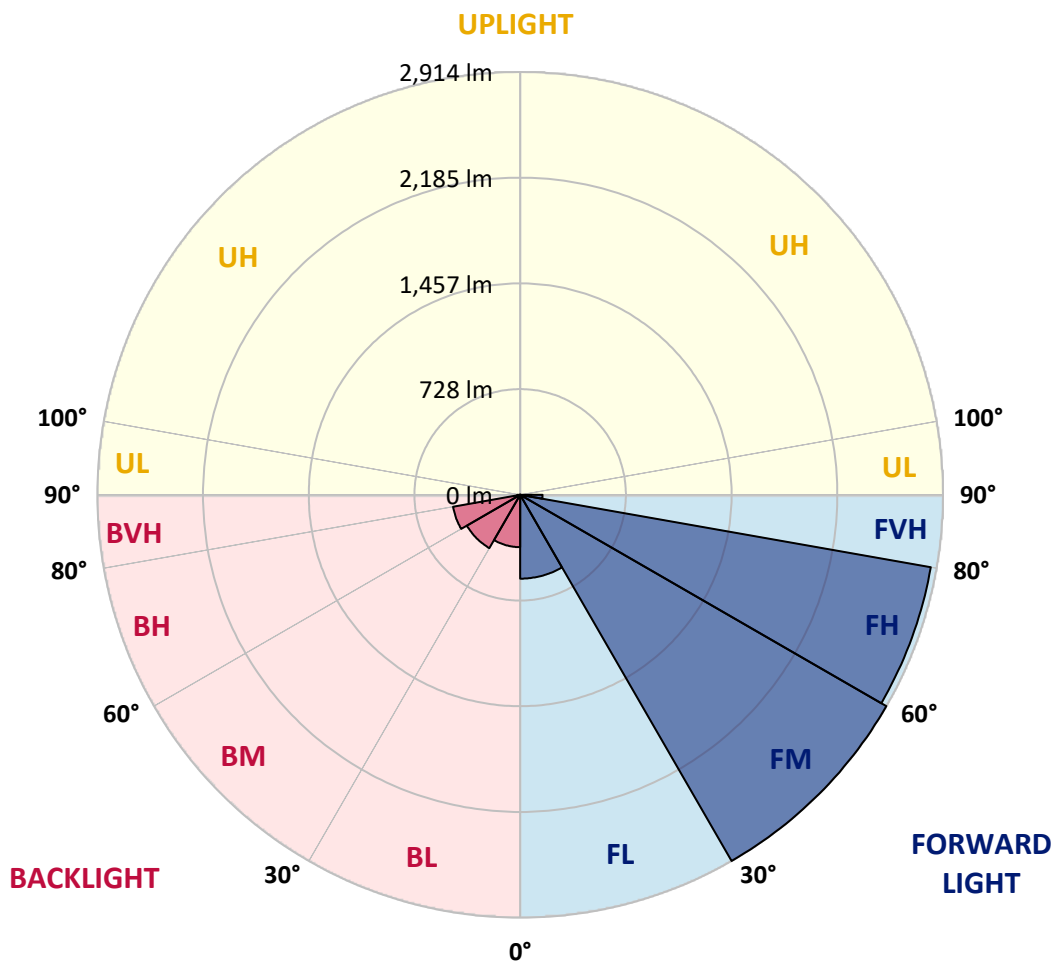
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	577.7	7.4			
FM (30°-60°)	2913.5	37.4			
FH (60°-80°)	2873.2	36.9			G2/5000
FVH (80°-90°)	154.5	2.0			G2/225
BL (0°-30°)	360.5	4.6	B1/500		
BM (30°-60°)	424.1	5.4	B1/1000		
BH (60°-80°)	469.6	6.0	B1/500		G1/500
BVH (80°-90°)	20.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1695.9	1695.9	1695.9	1695.9	1695.9	1695.9	1695.9	1695.9	1695.9	1695.9	1695.9
2.5°	1650.6	1663.8	1663.8	1673.5	1682.2	1689.3	1695.4	1695.4	1695.4	1691.3	1687.8
5°	1477.0	1494.8	1497.3	1521.8	1553.9	1593.1	1636.8	1675.5	1683.2	1697.4	1703.0
7.5°	1356.3	1361.9	1371.6	1388.4	1421.0	1469.3	1538.1	1624.6	1645.5	1690.3	1713.7
10°	1270.8	1275.4	1283.5	1300.3	1329.8	1373.6	1441.3	1553.9	1588.5	1667.9	1714.2
12.5°	1208.2	1211.7	1219.4	1234.6	1264.7	1303.9	1373.1	1490.2	1533.0	1645.5	1721.4
15°	1159.3	1165.4	1171.5	1186.3	1216.8	1254.5	1324.8	1443.9	1490.2	1627.7	1734.6
17.5°	1139.9	1143.0	1144.0	1151.6	1179.1	1217.3	1287.6	1411.3	1459.2	1613.4	1744.8
20°	1152.2	1152.7	1142.5	1137.4	1153.2	1188.3	1256.5	1386.9	1435.7	1600.7	1748.9
22.5°	1205.6	1205.6	1179.1	1156.7	1146.0	1167.9	1235.7	1370.1	1423.0	1591.0	1748.9
25°	1307.4	1302.9	1261.6	1217.3	1170.0	1160.8	1222.4	1359.4	1413.3	1585.9	1742.2
27.5°	1441.3	1437.3	1384.8	1319.2	1233.6	1176.1	1217.8	1350.7	1403.7	1578.3	1728.0
30°	1604.3	1600.7	1541.1	1455.1	1328.8	1224.5	1228.5	1344.6	1396.0	1565.6	1704.1
32.5°	1766.7	1764.6	1717.3	1629.2	1460.2	1306.4	1256.5	1343.6	1392.0	1550.3	1675.0
35°	1930.1	1930.1	1901.1	1826.8	1636.8	1429.6	1315.1	1362.4	1399.6	1542.1	1650.1
37.5°	2171.4	2161.8	2107.8	2030.9	1859.3	1589.5	1409.8	1402.1	1429.1	1555.9	1641.9
40°	2545.1	2517.1	2382.2	2252.9	2102.2	1794.2	1548.3	1479.0	1495.3	1602.7	1661.3
42.5°	2936.1	2891.8	2713.1	2506.4	2353.2	2046.7	1730.0	1603.8	1603.2	1693.4	1722.9
45°	3271.7	3248.7	3055.3	2793.1	2639.8	2330.8	1959.6	1789.1	1770.7	1833.9	1841.5
47.5°	3466.7	3451.4	3334.8	3096.5	2979.9	2666.3	2250.9	2046.2	2011.6	2049.2	2037.5
50°	3412.7	3427.4	3393.8	3272.2	3345.5	3137.8	2622.0	2398.5	2332.8	2370.5	2342.0
52.5°	3128.6	3168.3	3198.3	3221.8	3555.7	3768.6	3088.4	2838.4	2783.9	2777.3	2749.8
55°	2616.9	2680.0	2774.7	2946.8	3499.2	4275.1	3903.0	3370.4	3291.0	3249.3	3259.9
57.5°	1780.9	1876.6	2080.8	2408.2	3205.5	4491.0	5107.6	4057.7	3923.3	3774.7	3809.3
60°	981.1	1061.0	1303.9	1633.8	2534.9	4458.9	6175.2	5174.8	4751.7	4357.6	4428.9
62.5°	634.9	652.2	832.9	1116.0	1555.9	3936.6	6768.3	7041.7	6145.2	5126.4	5226.7
65°	510.1	522.4	611.0	900.1	1083.9	2532.4	6794.8	8978.5	8387.4	6171.1	6174.2
67.5°	498.4	504.0	555.5	757.1	1016.7	1378.7	5873.3	9742.2	9879.1	7404.2	6808.1
68°	505.6	512.2	564.1	733.7	1016.2	1270.8	5428.3	9730.5	9965.2	7610.4	6808.1
70°	446.0	454.1	575.3	759.1	972.9	1092.6	3717.1	9213.7	9591.5	8084.4	6459.8
72.5°	233.2	226.6	284.6	599.2	1095.1	1138.4	1963.7	7697.5	8138.4	7487.2	5581.1
75°	181.8	165.5	159.4	236.7	963.3	1180.7	1140.4	5471.1	5804.1	5397.3	3730.4
77.5°	171.1	151.2	139.5	140.0	424.1	1228.5	922.5	3219.7	3219.7	2574.7	1190.3
80°	137.5	119.1	111.5	127.3	204.7	1132.3	962.8	1467.3	1251.4	665.4	327.9
82.5°	90.6	81.0	81.5	103.4	155.3	756.1	1115.0	724.5	544.3	294.8	193.0
85°	57.5	49.4	55.0	72.3	116.1	337.0	1103.8	503.5	360.5	165.5	96.2
87.5°	29.0	22.4	27.5	37.7	70.8	96.7	908.8	449.6	267.3	68.7	52.4
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°	1695.9	1695.9	1695.9	1695.9	1695.9	1695.9	1695.9	1695.9	1695.9	1695.9	1695.9
2.5°	1687.8	1676.6	1671.0	1661.8	1650.6	1639.4	1631.8	1628.2	1626.2	1627.2	1626.7
5°	1700.0	1685.2	1661.3	1627.2	1592.0	1554.9	1526.4	1504.5	1490.7	1486.7	1485.6
7.5°	1709.1	1687.8	1643.0	1580.8	1520.8	1455.6	1400.1	1355.8	1325.8	1312.0	1311.5
10°	1707.6	1680.1	1609.4	1517.7	1429.6	1333.9	1246.9	1172.5	1118.6	1092.6	1091.6
12.5°	1709.1	1671.5	1568.1	1443.9	1317.6	1180.7	1051.3	935.8	855.3	817.2	815.6
15°	1715.3	1662.3	1525.9	1361.4	1186.8	993.3	808.5	663.4	590.1	565.1	565.1
17.5°	1714.7	1647.0	1477.0	1265.7	1031.5	772.3	551.9	462.3	455.2	478.1	481.6
20°	1704.6	1622.6	1413.8	1152.2	849.2	534.6	374.2	361.5	418.5	481.6	488.8
22.5°	1688.8	1591.0	1341.0	1020.3	636.9	348.2	288.7	308.0	385.4	463.8	475.0
25°	1666.9	1552.8	1257.5	867.0	423.6	250.5	240.8	264.7	319.2	371.7	379.8
27.5°	1634.8	1504.5	1166.4	701.1	270.3	206.2	209.8	226.6	250.0	272.4	277.0
30°	1594.6	1448.0	1067.1	517.3	205.2	184.3	190.4	200.6	210.8	225.0	228.1
32.5°	1553.9	1390.4	963.8	355.4	179.2	172.6	178.7	184.3	193.0	202.6	204.7
35°	1517.2	1337.0	857.4	247.9	168.0	165.0	168.0	171.6	180.2	189.9	190.9
37.5°	1490.7	1293.2	746.4	196.0	161.4	158.3	159.9	161.4	171.6	185.8	187.4
40°	1487.2	1264.2	633.9	176.2	156.3	152.2	151.2	152.2	165.5	181.8	183.3
42.5°	1521.8	1265.7	523.9	168.0	152.2	147.6	143.6	145.6	157.3	170.0	171.1
45°	1603.8	1301.3	428.7	164.4	148.7	145.1	139.0	140.0	145.6	152.2	153.2
47.5°	1748.3	1379.2	355.9	162.4	145.6	142.6	134.9	131.9	132.4	135.9	135.9
50°	1979.5	1509.6	311.6	160.4	143.1	137.5	128.8	122.7	121.2	123.2	123.7
52.5°	2324.2	1733.1	290.2	156.3	138.5	130.8	121.2	115.1	112.5	114.6	114.6
55°	2790.0	2090.0	280.0	150.7	132.9	122.7	114.0	109.0	106.9	108.4	108.4
57.5°	3321.0	2553.8	297.3	143.1	125.8	114.0	107.9	104.4	102.8	104.4	104.9
60°	3951.9	3160.7	416.5	133.4	118.1	106.4	102.8	100.8	99.8	101.3	101.3
62.5°	4790.4	3968.1	644.6	125.8	110.0	99.3	98.3	97.2	96.2	97.8	97.8
65°	5695.6	4702.8	663.4	121.2	102.8	93.2	93.7	93.7	92.7	94.2	94.2
67.5°	5983.8	4639.2	370.6	115.6	94.2	87.1	89.1	89.1	88.6	90.1	89.6
68°	5922.7	4538.4	322.8	114.0	92.7	85.5	87.6	88.1	87.6	89.1	88.6
70°	5467.5	3984.4	212.3	105.4	86.0	80.4	83.5	84.0	83.5	85.5	85.0
72.5°	4513.4	2988.6	156.8	92.2	77.9	73.8	76.9	77.4	77.9	79.9	79.4
75°	2866.4	1650.6	123.7	78.4	69.8	66.2	69.2	70.8	71.8	74.8	73.3
77.5°	785.1	501.0	100.3	66.7	60.1	58.5	60.6	62.6	63.6	67.2	64.7
80°	274.9	221.5	83.5	56.5	49.9	49.4	51.4	53.5	54.5	57.5	54.5
82.5°	167.0	144.6	66.7	44.3	39.2	38.7	41.2	43.3	44.3	44.3	42.3
85°	87.1	76.4	48.9	31.1	27.0	25.5	30.0	32.6	33.1	32.6	31.1
87.5°	48.9	43.3	26.0	14.8	12.2	12.7	15.8	19.3	20.9	20.4	19.3
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)