

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: P271308

Luminaire Tested: **XNV2-AF-02-LED-U-SL2-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271308
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-SL2-7027-800
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 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: 8298.4 lumens
Efficiency: N/A
Efficacy: 97.6 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

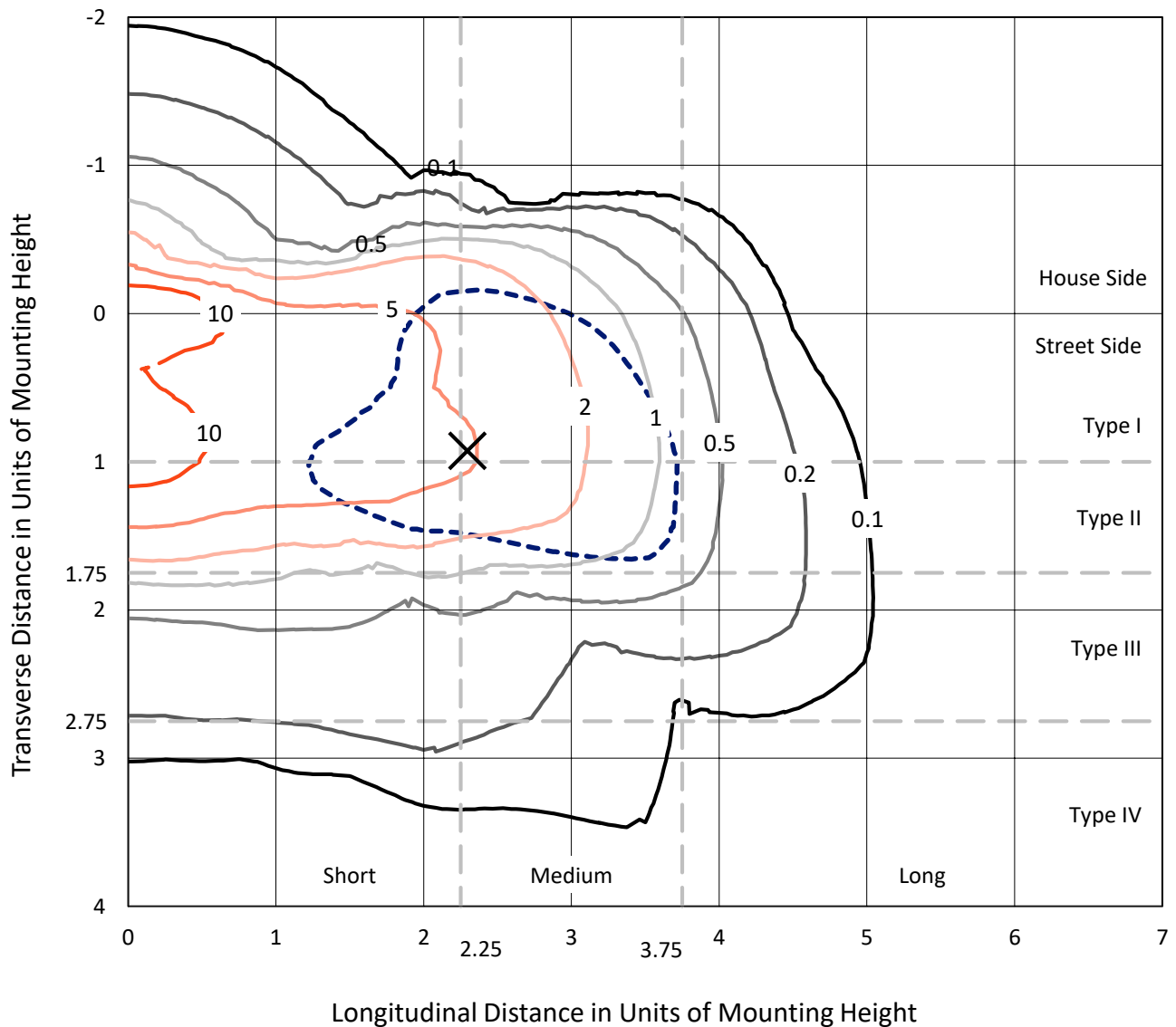
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

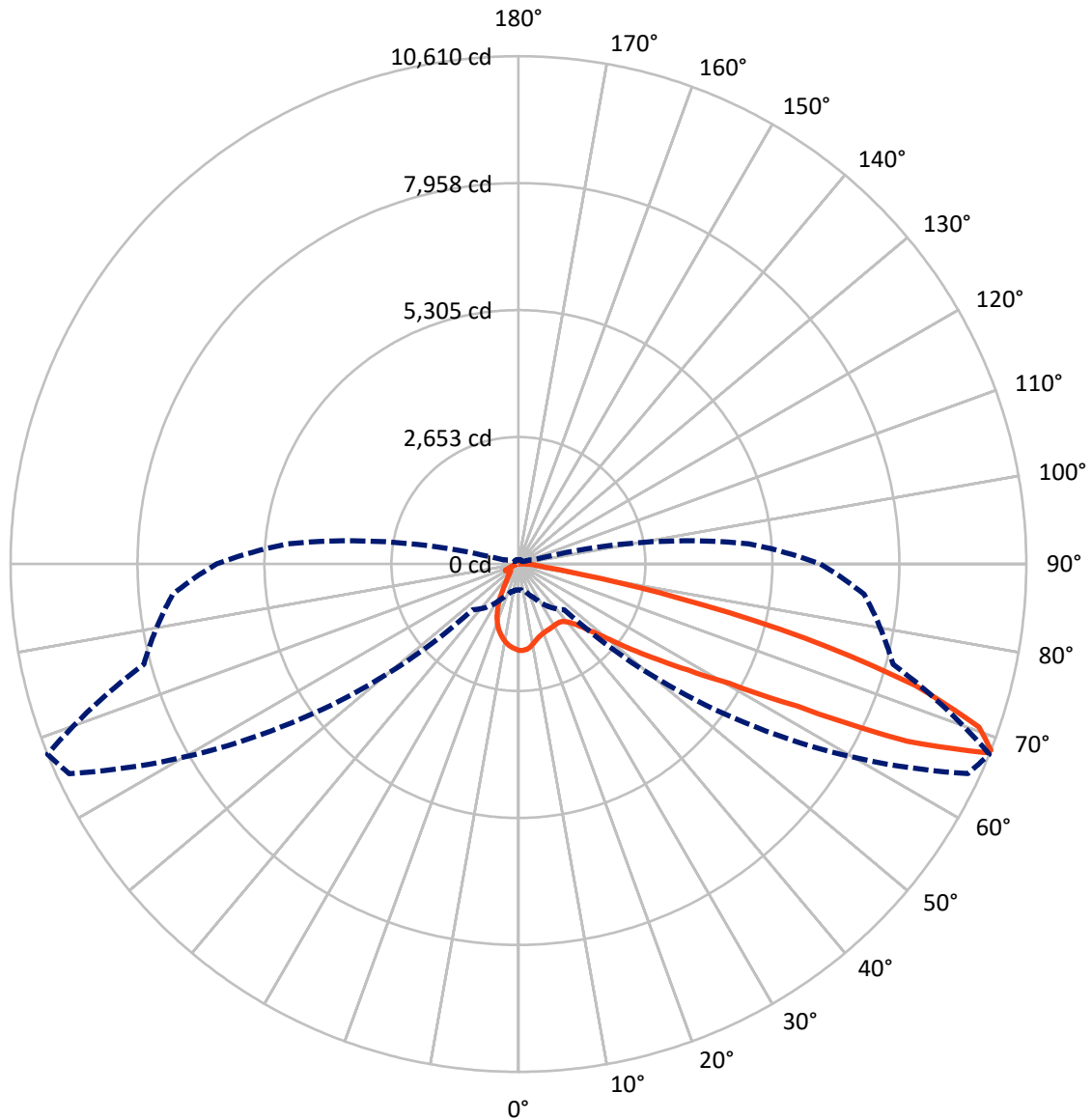


Based on 10 foot mounting height. Maximum calculated value = 18.1 fc
 Type II - Medium - Semi-Cutoff

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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	1357.6	0.0	1357.6
	% Fixture	16.4	0.0	16.4
Street Side	Lumens	6940.8	0.0	6940.8
	% Fixture	83.6	0.0	83.6
Total	Lumens	8298.4	0.0	8298.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.7	1.9
10°-20°	358.8	4.3
20°-30°	485.3	5.8
30°-40°	684.3	8.2
40°-50°	1125.2	13.6
50°-60°	1744.2	21.0
60°-70°	2261.5	27.3
70°-80°	1297.7	15.6
80°-90°	186.7	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°	8298.4	100.0
0°-180°	8298.4	100.0

Coefficient of Utilization



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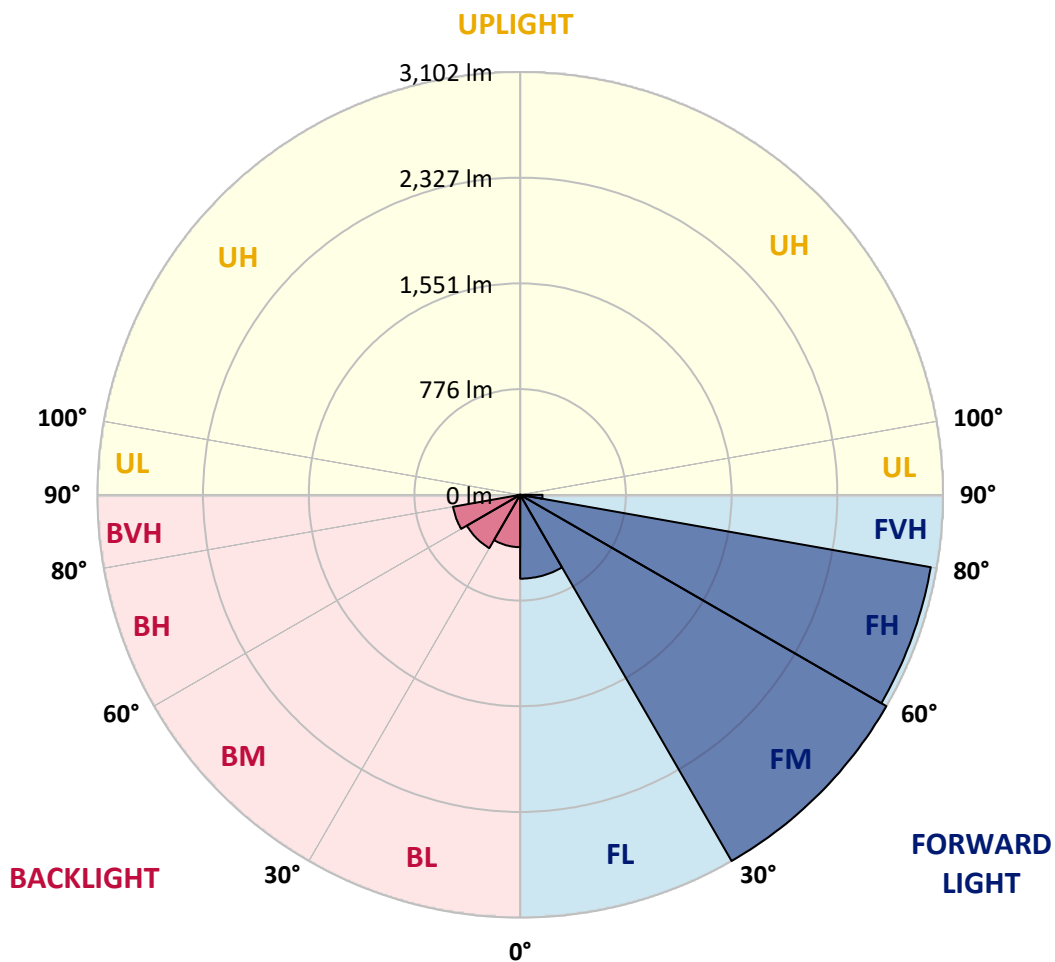
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	615.0	7.4			
FM	(30°-60°)	3102.1	37.4			
FH	(60°-80°)	3059.2	36.9			G2/5000
FVH	(80°-90°)	164.5	2.0			G2/225
BL	(0°-30°)	383.8	4.6	B1/500		
BM	(30°-60°)	451.6	5.4	B1/1000		
BH	(60°-80°)	500.0	6.0	B2/1000		G2/1000
BVH	(80°-90°)	22.3	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°	1805.7	1805.7	1805.7	1805.7	1805.7	1805.7	1805.7	1805.7	1805.7	1805.7	1805.7
2.5°	1757.4	1771.5	1771.5	1781.8	1791.0	1798.6	1805.1	1805.1	1805.1	1800.8	1797.0
5°	1572.6	1591.5	1594.2	1620.3	1654.4	1696.2	1742.8	1783.9	1792.1	1807.3	1813.3
7.5°	1444.0	1450.0	1460.4	1478.3	1512.9	1564.5	1637.6	1729.7	1752.1	1799.8	1824.6
10°	1353.0	1357.9	1366.6	1384.5	1415.9	1462.5	1534.7	1654.4	1691.2	1775.9	1825.1
12.5°	1286.4	1290.1	1298.3	1314.5	1346.5	1388.3	1462.0	1586.6	1632.2	1752.1	1832.7
15°	1234.4	1240.7	1247.3	1263.0	1295.5	1335.7	1410.5	1537.3	1586.6	1733.0	1846.8
17.5°	1213.7	1216.9	1218.0	1226.1	1255.4	1296.2	1371.0	1502.7	1553.6	1717.9	1857.8
20°	1226.7	1227.3	1216.5	1211.0	1227.9	1265.3	1337.8	1476.6	1528.6	1704.4	1862.0
22.5°	1283.7	1283.7	1255.4	1231.5	1220.2	1243.6	1315.6	1458.8	1515.1	1694.1	1862.0
25°	1392.1	1387.3	1343.2	1296.2	1245.7	1236.0	1301.6	1447.3	1504.8	1688.5	1855.0
27.5°	1534.7	1530.4	1474.5	1404.5	1313.4	1252.1	1296.7	1438.1	1494.5	1680.4	1839.8
30°	1708.0	1704.4	1640.8	1549.2	1414.8	1303.7	1308.0	1431.5	1486.3	1666.8	1814.3
32.5°	1881.1	1878.8	1828.4	1734.6	1554.6	1390.9	1337.8	1430.6	1482.1	1650.6	1783.5
35°	2055.1	2055.1	2024.2	1945.0	1742.8	1522.2	1400.2	1450.7	1490.2	1641.9	1756.8
37.5°	2312.0	2301.6	2244.1	2162.4	1979.7	1692.3	1501.0	1493.0	1521.5	1656.6	1748.2
40°	2709.8	2680.1	2536.4	2398.7	2238.2	1910.2	1648.5	1574.8	1592.1	1706.5	1768.9
42.5°	3126.2	3079.0	2888.7	2668.7	2505.6	2179.2	1842.0	1707.6	1707.0	1803.0	1834.3
45°	3483.4	3459.1	3253.0	2973.8	2810.6	2481.7	2086.5	1904.9	1885.4	1952.6	1960.7
47.5°	3691.0	3674.7	3550.6	3296.9	3172.8	2838.9	2396.5	2178.6	2141.7	2181.9	2169.3
50°	3633.6	3649.3	3613.5	3483.9	3562.0	3340.8	2791.8	2553.7	2483.9	2523.9	2493.5
52.5°	3331.1	3373.3	3405.4	3430.3	3785.8	4012.5	3288.2	3022.1	2964.0	2957.0	2927.8
55°	2786.4	2853.5	2954.3	3137.5	3725.7	4551.8	4155.6	3588.5	3504.0	3459.6	3471.0
57.5°	1896.2	1998.1	2215.5	2564.0	3412.9	4781.7	5438.1	4320.4	4177.3	4018.9	4055.8
60°	1044.5	1129.7	1388.3	1739.6	2699.0	4747.5	6574.9	5509.7	5059.3	4639.7	4715.6
62.5°	676.0	694.4	886.8	1188.3	1656.6	4191.3	7206.5	7497.4	6542.9	5458.2	5565.0
65°	543.1	556.2	650.6	958.4	1154.1	2696.4	7234.6	9559.6	8930.2	6570.6	6573.7
67.5°	530.7	536.6	591.4	806.0	1082.5	1467.9	6253.5	10372.6	10518.6	7883.4	7248.7
68°	538.3	545.4	600.6	781.2	1082.0	1353.0	5779.6	10360.2	10610.2	8103.0	7248.7
70°	474.8	483.6	612.6	808.2	1035.9	1163.2	3957.8	9810.0	10212.2	8607.6	6878.0
72.5°	248.3	241.3	303.0	638.1	1166.0	1212.2	2090.7	8195.6	8665.1	7971.7	5942.3
75°	193.6	176.2	169.7	252.1	1025.7	1257.1	1214.2	5825.1	6179.7	5746.5	3971.8
77.5°	182.1	160.9	148.5	149.1	451.6	1308.0	982.2	3428.1	3428.1	2741.3	1267.4
80°	146.3	126.8	118.8	135.6	217.8	1205.5	1025.1	1562.2	1332.5	708.6	349.1
82.5°	96.5	86.1	86.7	110.0	165.4	805.1	1187.2	771.4	579.4	313.9	205.4
85°	61.3	52.6	58.5	77.0	123.5	358.9	1175.3	536.1	383.8	176.2	102.4
87.5°	30.9	23.9	29.3	40.2	75.4	102.9	967.7	478.6	284.7	73.2	55.9
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°	1805.7	1805.7	1805.7	1805.7	1805.7	1805.7	1805.7	1805.7	1805.7	1805.7	1805.7
2.5°	1797.0	1785.0	1779.2	1769.3	1757.4	1745.4	1737.3	1733.5	1731.5	1732.6	1731.9
5°	1810.1	1794.3	1768.9	1732.6	1695.1	1655.4	1625.2	1601.9	1587.2	1582.9	1581.7
7.5°	1819.7	1797.0	1749.3	1683.2	1619.1	1549.8	1490.6	1443.5	1411.5	1397.0	1396.3
10°	1818.1	1788.9	1713.4	1616.0	1522.2	1420.2	1327.5	1248.5	1191.0	1163.2	1162.1
12.5°	1819.7	1779.6	1669.6	1537.3	1403.0	1257.1	1119.4	996.3	910.7	870.1	868.4
15°	1826.3	1769.9	1624.7	1449.5	1263.6	1057.6	860.8	706.3	628.3	601.8	601.8
17.5°	1825.7	1753.6	1572.6	1347.5	1098.3	822.3	587.6	492.2	484.6	509.0	512.8
20°	1814.8	1727.6	1505.4	1226.7	904.1	569.2	398.4	384.8	445.6	512.8	520.4
22.5°	1798.0	1694.1	1427.9	1086.3	678.1	370.8	307.4	327.9	410.3	493.9	505.7
25°	1774.8	1653.3	1339.0	923.2	450.9	266.6	256.3	281.9	339.9	395.8	404.3
27.5°	1740.6	1601.9	1241.8	746.4	287.8	219.5	223.4	241.3	266.2	290.1	295.0
30°	1697.7	1541.8	1136.1	550.8	218.5	196.2	202.7	213.5	224.4	239.6	242.8
32.5°	1654.4	1480.3	1026.1	378.4	190.8	183.8	190.4	196.2	205.4	215.8	217.8
35°	1615.4	1423.5	912.9	264.0	178.9	175.6	178.9	182.6	191.9	202.2	203.2
37.5°	1587.2	1376.9	794.7	208.6	171.8	168.6	170.1	171.8	182.6	197.8	199.5
40°	1583.4	1346.0	674.8	187.6	166.5	162.1	160.9	162.1	176.2	193.6	195.1
42.5°	1620.3	1347.5	557.8	178.9	162.1	157.3	152.9	155.0	167.5	181.1	182.1
45°	1707.6	1385.5	456.3	175.1	158.3	154.5	148.0	149.1	155.0	162.1	163.1
47.5°	1861.5	1468.5	378.9	173.0	155.0	151.8	143.6	140.3	140.9	144.7	144.7
50°	2107.7	1607.2	331.7	170.8	152.4	146.3	137.1	130.7	128.9	131.2	131.7
52.5°	2474.7	1845.3	308.9	166.5	147.4	139.2	128.9	122.4	119.8	122.0	122.0
55°	2970.5	2225.2	298.1	160.4	141.6	130.7	121.5	116.1	113.8	115.4	115.4
57.5°	3536.0	2719.1	316.6	152.4	133.8	121.5	115.0	111.1	109.6	111.1	111.7
60°	4207.7	3365.2	443.5	142.0	125.8	113.2	109.6	107.3	106.3	107.8	107.8
62.5°	5100.4	4225.0	686.2	133.8	117.0	105.7	104.7	103.6	102.4	104.1	104.1
65°	6064.3	5007.2	706.3	128.9	109.6	99.3	99.7	99.7	98.6	100.3	100.3
67.5°	6371.0	4939.4	394.6	123.1	100.3	92.6	95.0	95.0	94.3	95.9	95.4
68°	6306.0	4832.2	343.7	121.5	98.6	91.1	93.2	93.8	93.2	95.0	94.3
70°	5821.3	4242.2	226.1	112.2	91.5	85.7	88.9	89.4	88.9	91.1	90.5
72.5°	4805.6	3181.9	166.9	98.2	83.0	78.6	81.8	82.5	83.0	85.1	84.6
75°	3051.9	1757.4	131.7	83.5	74.3	70.4	73.8	75.4	76.4	79.7	78.1
77.5°	836.0	533.5	106.8	71.1	64.0	62.3	64.5	66.7	67.7	71.5	68.8
80°	292.7	235.9	88.9	60.1	53.1	52.6	54.7	57.0	58.0	61.3	58.0
82.5°	177.9	154.0	71.1	47.3	41.7	41.2	43.8	46.1	47.3	47.3	44.9
85°	92.6	81.2	52.0	33.1	28.7	27.0	32.0	34.7	35.3	34.7	33.1
87.5°	52.0	46.1	27.7	15.7	13.0	13.6	16.8	20.7	22.2	21.6	20.7
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)