

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: P199189

Luminaire Tested: **XNV2-AF-02-LED-U-SL3-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199189
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24263)
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-SL3-8030-800-HSS
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6748 lumens
Efficiency: N/A
Efficacy: 79.4 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): 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

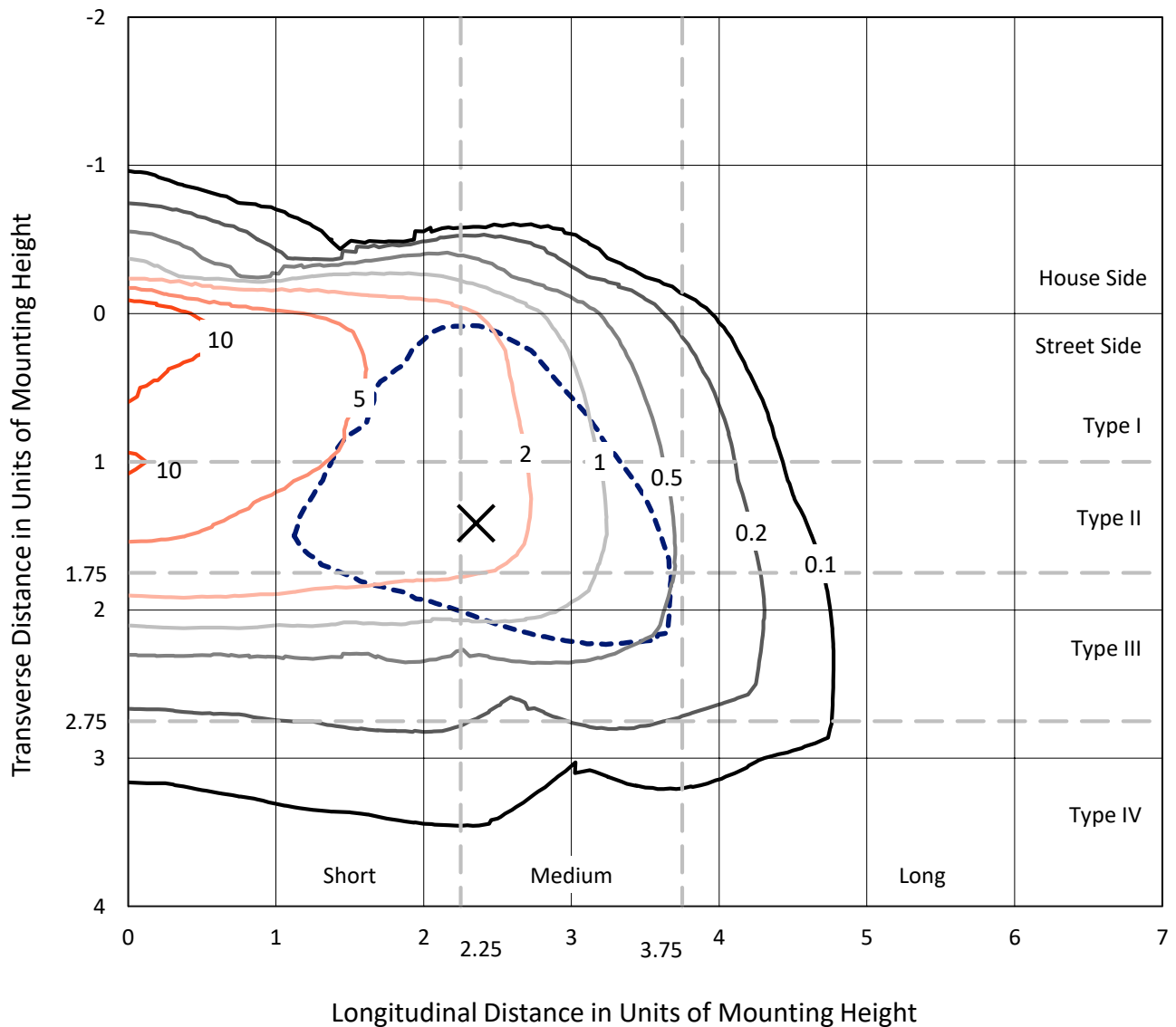


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

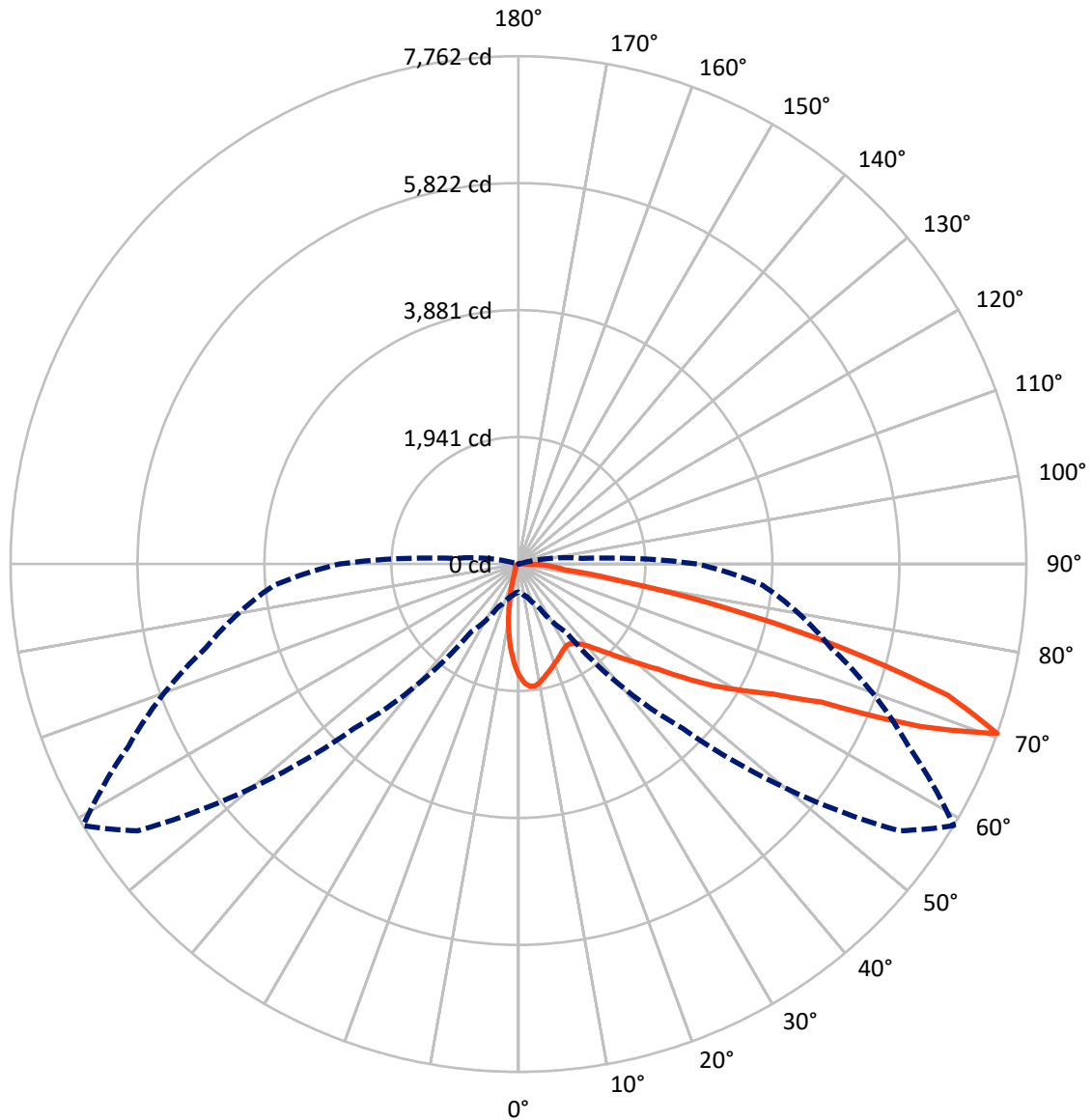


Based on 10 foot mounting height. Maximum calculated value = 18.2 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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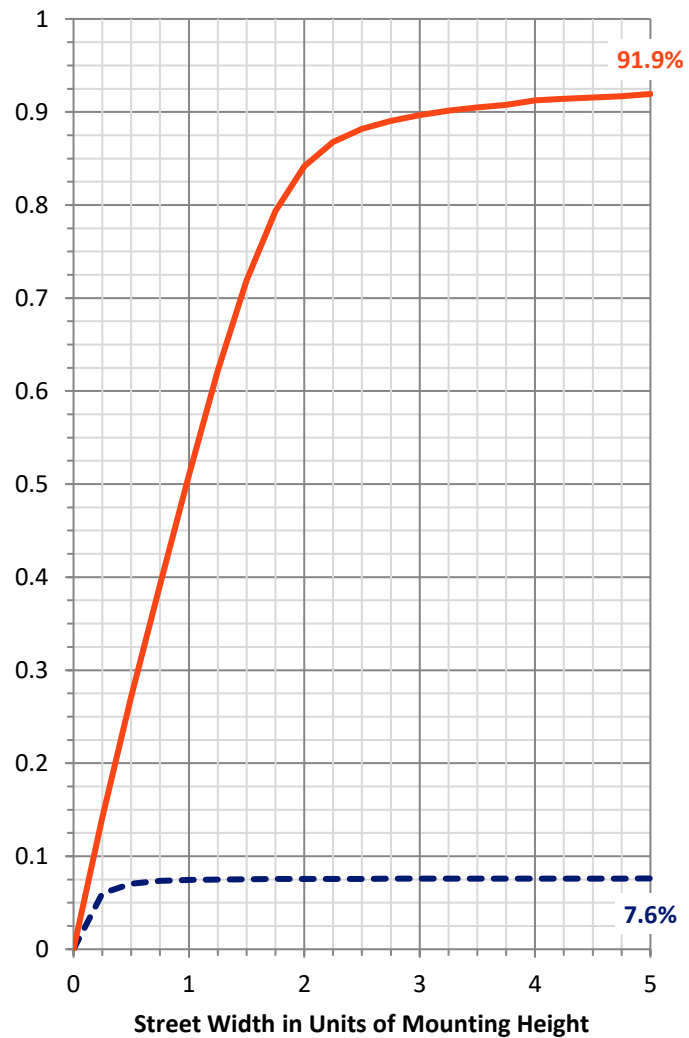
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	518.7	0.0	518.7
	% Fixture	7.7	0.0	7.7
Street Side	Lumens	6229.3	0.0	6229.3
	% Fixture	92.3	0.0	92.3
Total	Lumens	6748.0	0.0	6748.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.3	2.1
10°-20°	294.3	4.4
20°-30°	398.4	5.9
30°-40°	574.9	8.5
40°-50°	954.8	14.1
50°-60°	1460.5	21.6
60°-70°	1816.5	26.9
70°-80°	1004.2	14.9
80°-90°	104.1	1.5
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°	6748.0	100.0
0°-180°	6748.0	100.0



--- HS — SS

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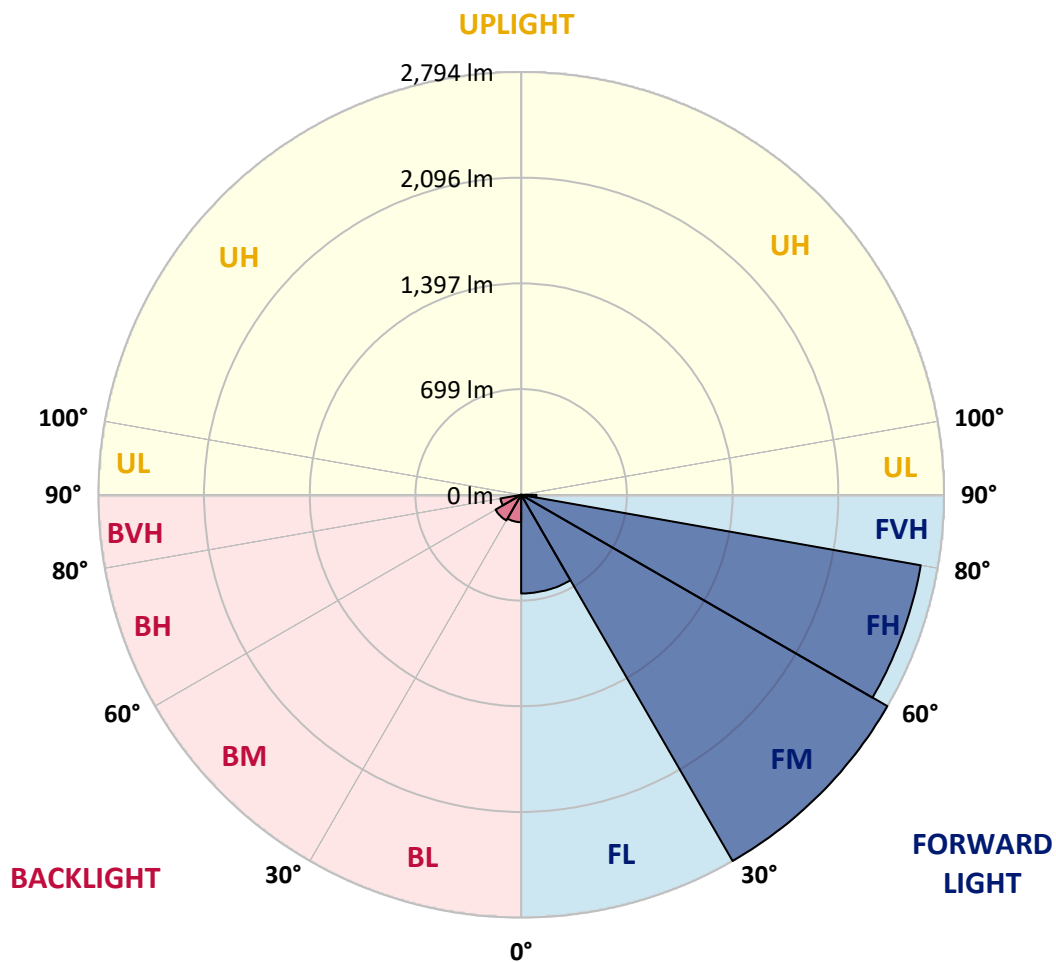
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	652.2	9.7			
FM	(30°-60°)	2794.4	41.4			
FH	(60°-80°)	2681.5	39.7			G2/5000
FVH	(80°-90°)	101.1	1.5			G2/225
BL	(0°-30°)	180.8	2.7	B1/500		
BM	(30°-60°)	195.8	2.9	B0/220		
BH	(60°-80°)	139.2	2.1	B1/500		G1/500
BVH	(80°-90°)	3.0	0.0			G0/10
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°	59°	65°	75°	85°
0°	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3
2.5°	1928.8	1925.7	1913.0	1910.5	1896.2	1867.7	1834.6	1821.4	1794.4	1751.6	1704.3
5°	1960.8	1962.4	1963.4	1957.8	1955.8	1932.3	1895.7	1879.9	1843.8	1773.5	1687.0
7.5°	1840.7	1844.8	1857.5	1863.1	1887.5	1896.7	1889.1	1878.9	1850.4	1767.4	1645.7
10°	1714.0	1721.6	1735.3	1744.5	1774.5	1799.0	1830.0	1832.6	1826.5	1747.1	1599.4
12.5°	1605.0	1612.2	1627.4	1645.7	1676.3	1707.9	1754.2	1770.5	1790.8	1733.8	1566.3
15°	1511.4	1513.4	1528.2	1551.1	1591.3	1634.6	1689.5	1713.5	1753.2	1728.7	1540.9
17.5°	1429.4	1429.9	1439.6	1460.5	1509.3	1566.3	1630.5	1662.0	1712.4	1721.6	1518.5
20°	1375.4	1374.9	1375.4	1386.6	1429.9	1497.6	1575.5	1608.6	1673.2	1712.9	1495.6
22.5°	1357.1	1354.6	1342.9	1338.8	1366.3	1425.8	1519.0	1562.3	1638.1	1710.4	1478.8
25°	1379.5	1378.0	1353.0	1329.6	1332.2	1369.3	1461.5	1514.4	1610.6	1719.6	1474.7
27.5°	1451.8	1448.7	1410.6	1364.8	1335.7	1342.4	1418.7	1474.2	1588.7	1742.0	1480.3
30°	1546.5	1547.0	1506.3	1450.8	1382.6	1344.9	1395.8	1448.2	1574.0	1775.6	1492.5
32.5°	1651.9	1651.3	1622.3	1558.2	1471.1	1391.7	1406.0	1450.3	1576.0	1824.9	1515.9
35°	1760.8	1755.2	1745.5	1689.0	1587.2	1473.7	1452.3	1484.9	1597.4	1890.1	1555.6
37.5°	1886.5	1884.5	1894.2	1834.6	1730.8	1594.3	1533.8	1555.6	1651.3	1986.3	1619.8
40°	2086.6	2075.4	2080.0	1999.0	1892.6	1756.7	1647.8	1653.4	1737.4	2113.6	1721.1
42.5°	2467.9	2422.6	2337.5	2185.8	2070.8	1936.9	1796.9	1787.3	1859.0	2267.8	1854.5
45°	2923.5	2871.5	2657.2	2392.0	2249.0	2130.4	1981.2	1955.3	2008.7	2451.6	2026.5
47.5°	3303.7	3247.7	2963.7	2607.3	2430.2	2329.9	2185.3	2154.8	2187.9	2664.9	2233.2
50°	3433.5	3402.5	3153.0	2786.5	2612.9	2553.9	2441.4	2390.5	2398.6	2895.0	2474.5
52.5°	3374.0	3363.3	3196.3	2909.2	2781.9	2801.3	2721.9	2668.4	2659.3	3146.4	2741.2
55°	3248.2	3243.1	3161.7	2977.4	2931.1	3027.8	3115.4	3069.0	2982.5	3413.7	2961.6
57.5°	3068.5	3087.9	3146.4	3108.8	3114.4	3267.1	3480.9	3504.8	3375.5	3626.5	3125.0
60°	2588.5	2640.4	2908.7	3249.8	3510.9	3665.1	3872.3	3917.1	3708.4	3772.0	3313.9
62.5°	1913.5	1987.8	2370.1	2996.8	3729.3	4422.1	4393.1	4373.2	4026.1	3967.0	3657.5
65°	1124.0	1211.0	1534.3	2341.6	3399.9	4908.7	5365.4	5090.5	4510.2	4372.2	4204.7
67.5°	560.0	560.5	706.6	1236.0	2512.7	4569.2	6784.6	6625.8	5539.5	4969.3	4420.6
70°	430.7	442.4	522.8	718.3	1270.6	3558.7	7109.9	7762.0	6573.8	4942.8	3750.7
72.5°	365.0	372.6	465.3	625.1	949.9	1953.7	6154.9	6860.9	6273.0	4176.2	2764.6
75°	262.7	268.8	411.8	567.1	874.5	969.2	4222.0	5088.4	4706.7	2937.7	1521.5
77.5°	65.2	64.6	143.6	460.2	782.4	807.3	2422.6	3263.0	2700.5	1202.9	390.9
80°	29.0	28.0	32.6	96.7	727.9	762.0	1065.4	1647.8	1035.9	195.0	119.6
82.5°	20.4	19.3	20.4	35.6	243.3	707.1	643.9	714.2	379.2	66.7	50.9
85°	6.6	6.1	11.2	30.0	68.2	407.7	628.2	533.5	282.0	28.5	34.1
87.5°	1.0	1.0	4.1	16.3	19.9	135.9	368.6	369.6	126.8	16.8	15.3
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°	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3
2.5°	1680.4	1650.3	1608.1	1565.8	1527.7	1488.5	1456.9	1442.1	1435.5	1426.4	1406.5
5°	1641.7	1587.2	1494.6	1403.4	1318.4	1237.0	1167.2	1127.5	1084.8	1082.7	1061.9
7.5°	1579.6	1502.2	1356.1	1214.6	1084.8	960.6	853.7	784.4	737.1	707.6	687.2
10°	1510.3	1411.1	1217.6	1018.6	842.0	676.0	538.6	449.0	394.5	367.0	351.2
12.5°	1455.4	1330.6	1081.2	830.8	609.3	418.9	291.2	226.0	197.0	185.8	180.7
15°	1408.0	1256.8	953.4	662.8	406.7	240.8	168.5	147.1	142.5	142.5	142.0
17.5°	1360.2	1185.6	829.2	497.8	256.1	157.8	132.9	129.8	130.3	131.8	131.8
20°	1314.9	1117.9	709.6	354.8	168.0	126.2	120.6	119.6	121.2	123.2	122.7
22.5°	1278.2	1058.3	597.6	243.8	129.3	114.5	111.0	109.4	110.5	112.0	111.5
25°	1252.3	1007.4	494.8	170.0	112.5	104.4	100.3	98.2	97.2	98.2	97.7
27.5°	1236.5	964.6	398.1	127.8	100.8	94.2	89.1	85.0	82.5	82.5	81.4
30°	1226.3	924.4	312.0	105.9	91.1	84.0	76.9	71.3	67.2	66.2	65.7
32.5°	1225.8	889.8	233.1	93.7	82.0	73.8	65.2	58.0	53.4	52.4	51.9
35°	1238.5	861.8	171.5	84.5	73.8	64.1	54.5	46.8	42.8	42.8	42.3
37.5°	1271.6	845.5	129.8	77.4	67.2	56.0	45.8	38.7	35.1	36.1	36.1
40°	1333.2	842.5	105.9	71.8	61.6	48.9	37.2	31.6	30.0	31.6	31.6
42.5°	1427.4	858.8	94.2	67.7	56.5	41.7	31.1	27.0	26.5	28.0	28.0
45°	1550.0	890.8	87.6	64.1	50.9	34.6	26.0	23.4	22.9	24.9	24.9
47.5°	1698.7	934.1	81.4	60.1	45.3	28.5	21.9	19.9	19.9	21.9	22.4
50°	1874.8	992.6	75.3	56.0	40.7	23.9	18.3	16.8	17.3	19.3	19.9
52.5°	2077.4	1064.4	69.7	52.4	35.6	19.3	15.3	14.3	14.8	16.8	17.3
55°	2252.0	1127.0	63.1	48.9	29.0	15.8	12.7	12.2	12.7	15.3	15.3
57.5°	2404.2	1187.1	57.0	43.3	22.9	12.7	10.2	10.2	11.2	13.7	14.3
60°	2606.3	1281.8	51.9	36.7	17.3	9.7	8.1	8.7	10.2	12.2	12.7
62.5°	2964.2	1442.6	45.3	30.5	12.7	7.6	6.6	7.1	9.2	11.7	12.2
65°	3412.1	1594.8	37.7	25.5	9.7	5.6	5.1	6.6	9.2	11.7	12.2
67.5°	3366.3	1387.2	29.5	20.4	7.1	4.6	4.1	6.1	8.7	11.7	12.2
70°	2730.0	972.3	21.9	13.7	5.6	4.1	4.1	6.1	8.7	11.2	11.7
72.5°	1893.7	541.1	16.8	9.2	5.1	4.1	3.6	5.6	8.1	11.2	11.7
75°	901.0	165.9	13.2	6.6	4.6	3.6	3.1	5.6	8.1	11.2	11.7
77.5°	173.1	42.3	10.7	5.6	4.1	3.6	3.1	5.1	8.1	10.7	11.2
80°	58.5	18.8	8.7	5.1	4.1	3.6	3.1	5.1	7.6	10.2	10.7
82.5°	32.1	10.7	7.6	4.6	4.1	3.1	2.5	4.6	7.1	10.2	10.7
85°	24.9	7.6	6.1	4.6	4.1	3.1	2.5	4.6	7.1	9.7	10.2
87.5°	12.7	5.6	5.1	4.6	4.1	3.1	2.5	4.1	6.6	9.2	10.2
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)