

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: P198867

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198867
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-SL3-7050-600-HSS
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 615mA 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: 6745 lumens
Efficiency: N/A
Efficacy: 102.2 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

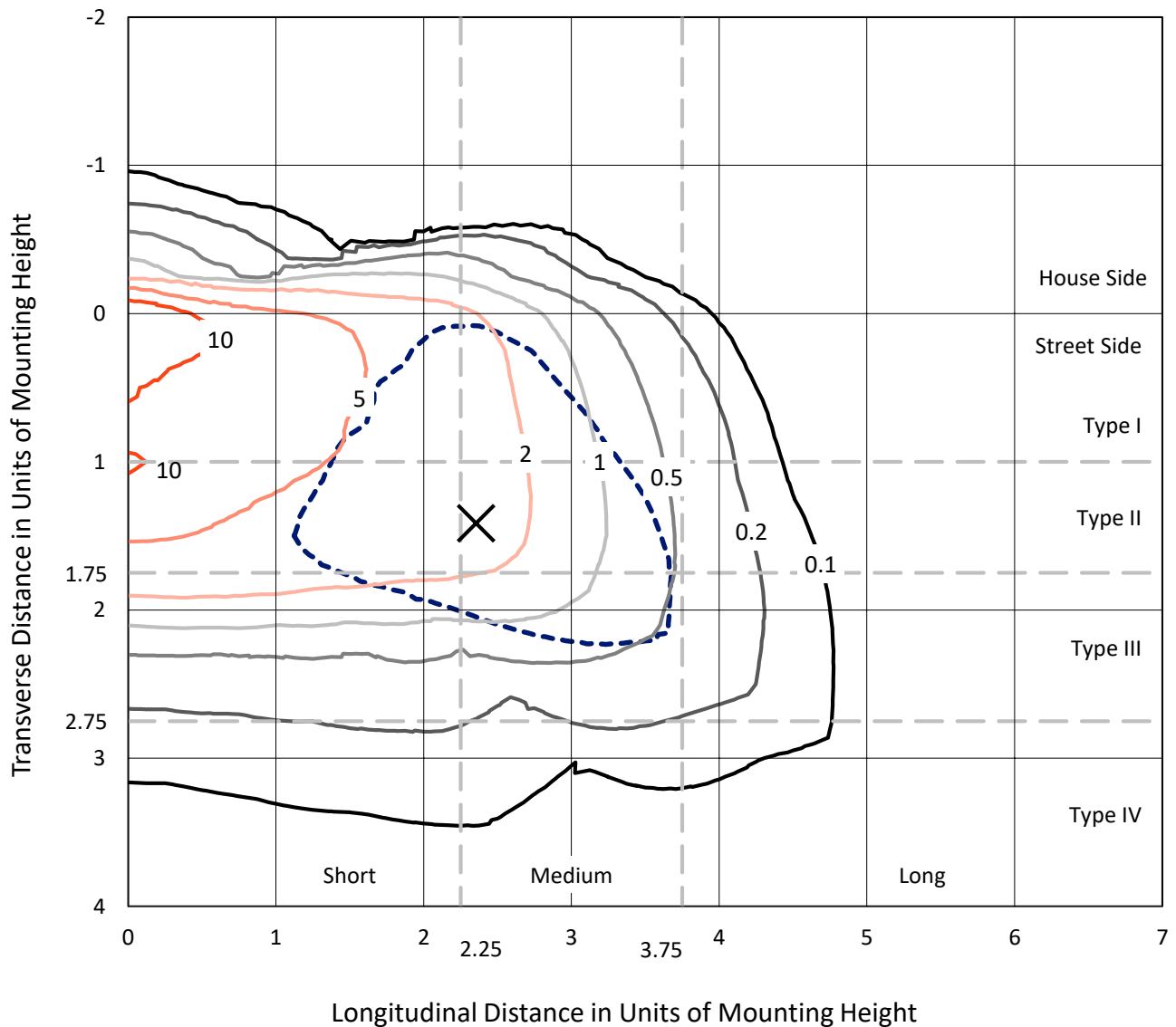


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

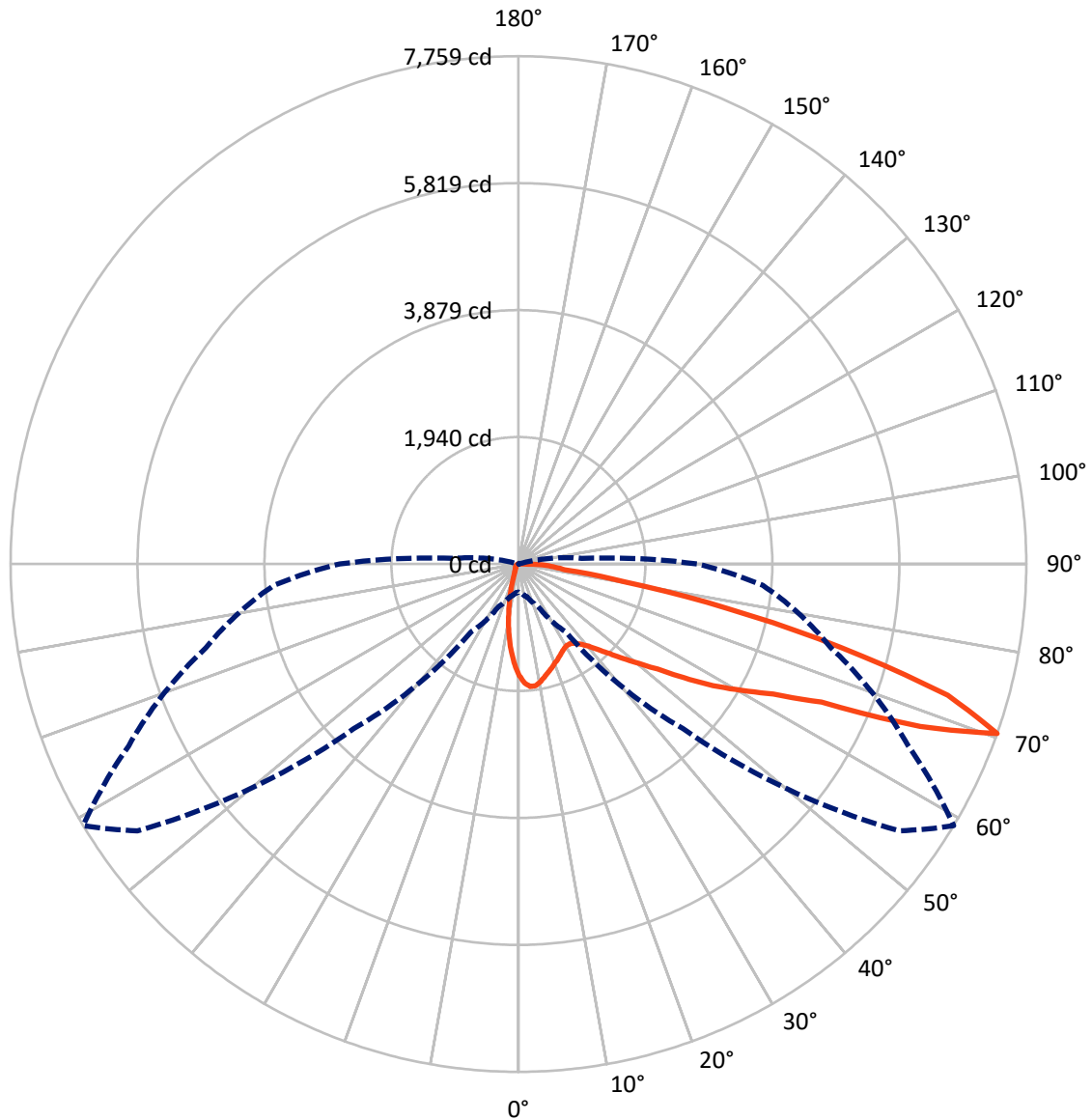


Based on 10 foot mounting height. Maximum calculated value = 18.2 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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

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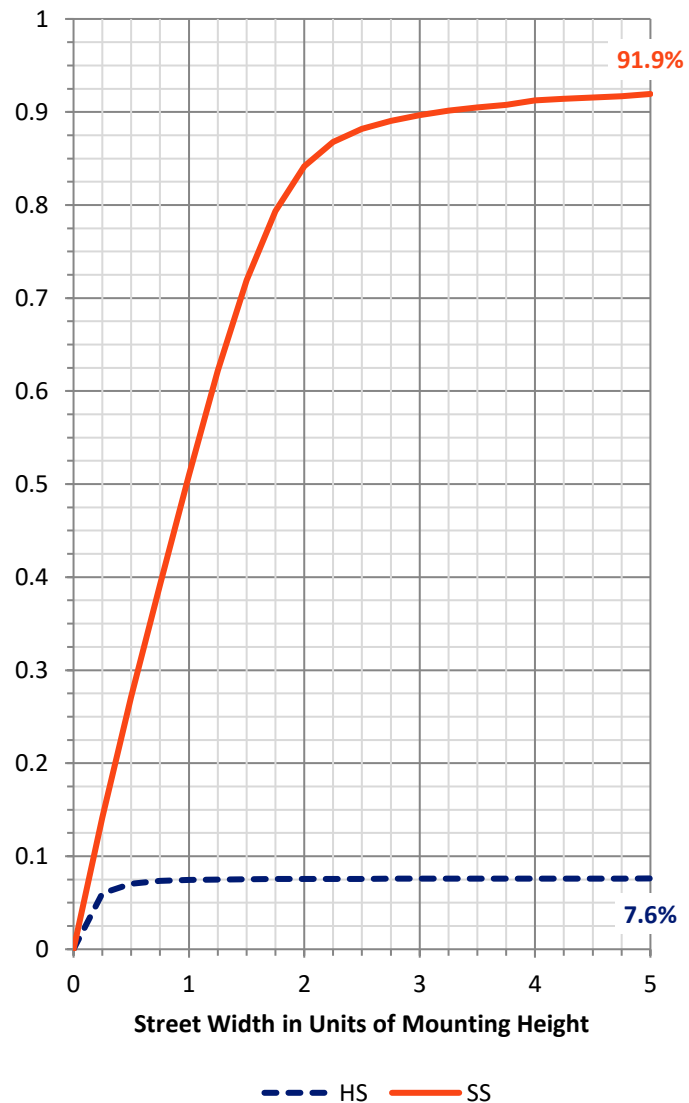
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	518.5	0.0	518.5
	% Fixture	7.7	0.0	7.7
Street Side	Lumens	6226.5	0.0	6226.5
	% Fixture	92.3	0.0	92.3
Total	Lumens	6745.0	0.0	6745.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.2	2.1
10°-20°	294.2	4.4
20°-30°	398.2	5.9
30°-40°	574.7	8.5
40°-50°	954.4	14.1
50°-60°	1459.8	21.6
60°-70°	1815.7	26.9
70°-80°	1003.7	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°	6745.0	100.0
0°-180°	6745.0	100.0

Coefficient of Utilization



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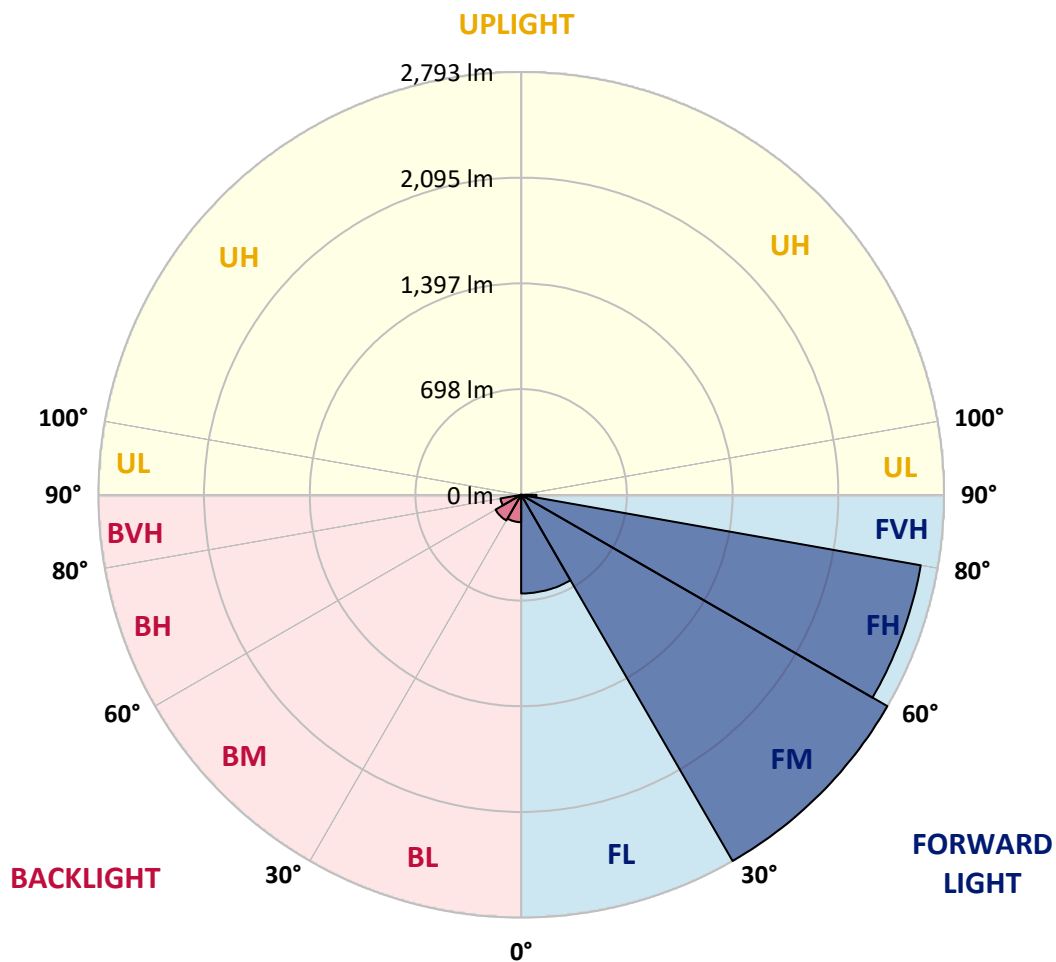
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	651.9	9.7			
FM	(30°-60°)	2793.2	41.4			
FH	(60°-80°)	2680.3	39.7			G2/5000
FVH	(80°-90°)	101.1	1.5			G2/225
BL	(0°-30°)	180.7	2.7	B1/500		
BM	(30°-60°)	195.7	2.9	B0/220		
BH	(60°-80°)	139.1	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°	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6
2.5°	1927.9	1924.9	1912.1	1909.6	1895.4	1866.9	1833.8	1820.6	1793.6	1750.9	1703.5
5°	1960.0	1961.5	1962.5	1956.9	1954.9	1931.5	1894.8	1879.1	1842.9	1772.7	1686.2
7.5°	1839.9	1844.0	1856.7	1862.3	1886.7	1895.9	1888.2	1878.1	1849.6	1766.6	1645.0
10°	1713.2	1720.8	1734.6	1743.7	1773.7	1798.2	1829.2	1831.8	1825.6	1746.3	1598.7
12.5°	1604.3	1611.4	1626.7	1645.0	1675.5	1707.1	1753.4	1769.7	1790.0	1733.0	1565.6
15°	1510.7	1512.7	1527.5	1550.4	1590.6	1633.8	1688.8	1712.7	1752.4	1728.0	1540.2
17.5°	1428.8	1429.3	1438.9	1459.8	1508.7	1565.6	1629.8	1661.3	1711.7	1720.8	1517.8
20°	1374.8	1374.3	1374.8	1386.0	1429.3	1497.0	1574.8	1607.9	1672.5	1712.2	1494.9
22.5°	1356.5	1354.0	1342.3	1338.2	1365.7	1425.2	1518.3	1561.6	1637.4	1709.6	1478.1
25°	1378.9	1377.4	1352.4	1329.0	1331.6	1368.7	1460.8	1513.7	1609.9	1718.8	1474.1
27.5°	1451.2	1448.1	1409.9	1364.1	1335.1	1341.8	1418.1	1473.5	1588.0	1741.2	1479.7
30°	1545.8	1546.3	1505.6	1450.1	1382.0	1344.3	1395.2	1447.6	1573.3	1774.8	1491.9
32.5°	1651.1	1650.6	1621.6	1557.5	1470.5	1391.1	1405.4	1449.6	1575.3	1824.1	1515.3
35°	1760.0	1754.4	1744.7	1688.3	1586.5	1473.0	1451.7	1484.2	1596.7	1889.3	1555.0
37.5°	1885.7	1883.7	1893.3	1833.8	1730.0	1593.6	1533.1	1555.0	1650.6	1985.4	1619.1
40°	2085.7	2074.5	2079.0	1998.1	1891.8	1755.9	1647.1	1652.7	1736.6	2112.6	1720.3
42.5°	2466.8	2421.5	2336.5	2184.9	2069.9	1936.1	1796.1	1786.5	1858.2	2266.8	1853.6
45°	2922.2	2870.3	2656.0	2390.9	2248.0	2129.4	1980.3	1954.4	2007.8	2450.5	2025.6
47.5°	3302.2	3246.3	2962.4	2606.2	2429.1	2328.9	2184.4	2153.8	2186.9	2663.7	2232.2
50°	3432.0	3401.0	3151.6	2785.3	2611.8	2552.8	2440.3	2389.4	2397.6	2893.7	2473.4
52.5°	3372.5	3361.8	3194.9	2907.9	2780.7	2800.0	2720.7	2667.2	2658.1	3145.0	2740.0
55°	3246.8	3241.7	3160.3	2976.1	2929.8	3026.5	3114.0	3067.7	2981.2	3412.2	2960.3
57.5°	3067.2	3086.5	3145.0	3107.4	3113.0	3265.6	3479.3	3503.2	3374.0	3624.8	3123.7
60°	2587.4	2639.3	2907.4	3248.3	3509.3	3663.5	3870.6	3915.4	3706.8	3770.4	3312.4
62.5°	1912.7	1986.9	2369.1	2995.4	3727.6	4420.1	4391.1	4371.3	4024.3	3965.2	3655.9
65°	1123.5	1210.5	1533.6	2340.6	3398.4	4906.6	5363.0	5088.2	4508.2	4370.3	4202.9
67.5°	559.7	560.2	706.2	1235.4	2511.5	4567.2	6781.6	6622.8	5537.0	4967.1	4418.6
70°	430.5	442.2	522.6	717.9	1270.0	3557.2	7106.7	7758.5	6570.9	4940.7	3749.0
72.5°	364.8	372.5	465.1	624.8	949.5	1952.9	6152.2	6857.9	6270.2	4174.4	2763.4
75°	262.6	268.7	411.6	566.8	874.2	968.8	4220.2	5086.2	4704.6	2936.4	1520.9
77.5°	65.1	64.6	143.5	460.0	782.1	807.0	2421.5	3261.5	2699.3	1202.3	390.8
80°	29.0	28.0	32.6	96.7	727.6	761.7	1065.0	1647.1	1035.5	194.9	119.6
82.5°	20.4	19.3	20.4	35.6	243.2	706.8	643.7	713.9	379.1	66.7	50.9
85°	6.6	6.1	11.2	30.0	68.2	407.6	627.9	533.2	281.9	28.5	34.1
87.5°	1.0	1.0	4.1	16.3	19.8	135.9	368.4	369.4	126.7	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°	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6	1705.6
2.5°	1679.6	1649.6	1607.4	1565.1	1527.0	1487.8	1456.2	1441.5	1434.9	1425.7	1405.9
5°	1640.9	1586.5	1493.9	1402.8	1317.8	1236.4	1166.7	1127.0	1084.3	1082.3	1061.4
7.5°	1578.9	1501.5	1355.5	1214.0	1084.3	960.1	853.3	784.1	736.8	707.3	686.9
10°	1509.7	1410.5	1217.1	1018.2	841.6	675.7	538.3	448.8	394.3	366.9	351.1
12.5°	1454.7	1330.1	1080.7	830.4	609.1	418.8	291.0	225.9	196.9	185.7	180.6
15°	1407.4	1256.3	953.0	662.5	406.5	240.7	168.4	147.0	142.5	142.5	142.0
17.5°	1359.6	1185.0	828.9	497.6	255.9	157.7	132.8	129.7	130.3	131.8	131.8
20°	1314.3	1117.4	709.3	354.6	167.9	126.2	120.6	119.6	121.1	123.1	122.6
22.5°	1277.6	1057.8	597.4	243.7	129.2	114.5	110.9	109.4	110.4	111.9	111.4
25°	1251.7	1007.0	494.6	169.9	112.4	104.3	100.2	98.2	97.2	98.2	97.7
27.5°	1235.9	964.2	397.9	127.7	100.7	94.1	89.0	85.0	82.4	82.4	81.4
30°	1225.7	924.0	311.9	105.8	91.1	84.0	76.8	71.2	67.2	66.1	65.6
32.5°	1225.2	889.4	233.0	93.6	81.9	73.8	65.1	58.0	53.4	52.4	51.9
35°	1238.0	861.4	171.5	84.5	73.8	64.1	54.4	46.8	42.7	42.7	42.2
37.5°	1271.0	845.2	129.7	77.3	67.2	56.0	45.8	38.7	35.1	36.1	36.1
40°	1332.6	842.1	105.8	71.7	61.6	48.8	37.1	31.5	30.0	31.5	31.5
42.5°	1426.7	858.4	94.1	67.7	56.5	41.7	31.0	27.0	26.5	28.0	28.0
45°	1549.4	890.4	87.5	64.1	50.9	34.6	25.9	23.4	22.9	24.9	24.9
47.5°	1697.9	933.7	81.4	60.0	45.3	28.5	21.9	19.8	19.8	21.9	22.4
50°	1874.0	992.2	75.3	56.0	40.7	23.9	18.3	16.8	17.3	19.3	19.8
52.5°	2076.5	1063.9	69.7	52.4	35.6	19.3	15.3	14.2	14.8	16.8	17.3
55°	2251.0	1126.5	63.1	48.8	29.0	15.8	12.7	12.2	12.7	15.3	15.3
57.5°	2403.2	1186.6	57.0	43.2	22.9	12.7	10.2	10.2	11.2	13.7	14.2
60°	2605.2	1281.2	51.9	36.6	17.3	9.7	8.1	8.6	10.2	12.2	12.7
62.5°	2962.9	1442.0	45.3	30.5	12.7	7.6	6.6	7.1	9.2	11.7	12.2
65°	3410.6	1594.1	37.7	25.4	9.7	5.6	5.1	6.6	9.2	11.7	12.2
67.5°	3364.8	1386.5	29.5	20.4	7.1	4.6	4.1	6.1	8.6	11.7	12.2
70°	2728.8	971.8	21.9	13.7	5.6	4.1	4.1	6.1	8.6	11.2	11.7
72.5°	1892.8	540.9	16.8	9.2	5.1	4.1	3.6	5.6	8.1	11.2	11.7
75°	900.6	165.9	13.2	6.6	4.6	3.6	3.1	5.6	8.1	11.2	11.7
77.5°	173.0	42.2	10.7	5.6	4.1	3.6	3.1	5.1	8.1	10.7	11.2
80°	58.5	18.8	8.6	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)