

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: P198547

Luminaire Tested: **XNV2-AF-02-LED-U-SL3-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198547
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-SL3-7030-600-HSS
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 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: 5971 lumens
Efficiency: N/A
Efficacy: 90.5 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

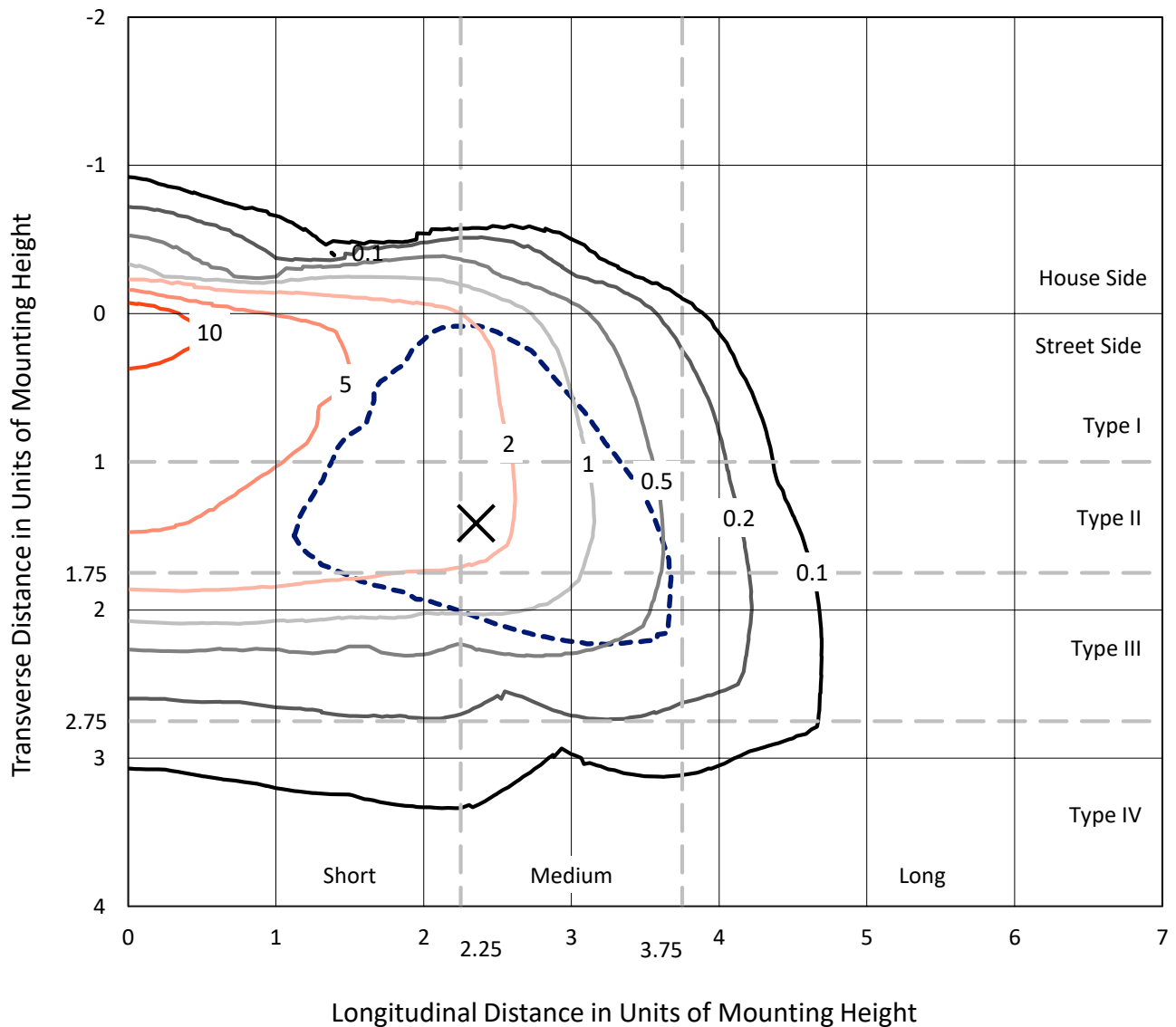


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

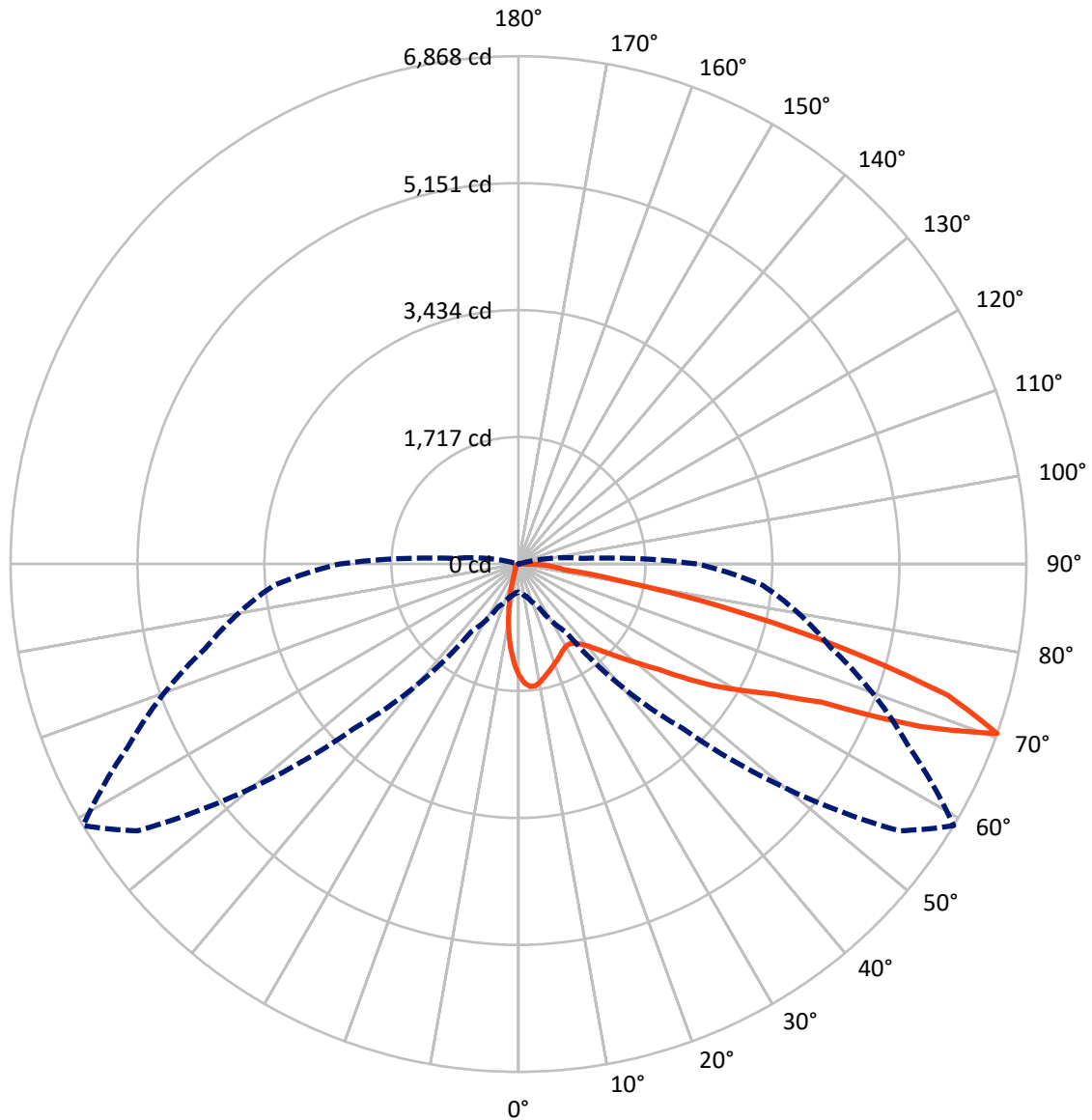


Based on 10 foot mounting height. Maximum calculated value = 16.1 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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



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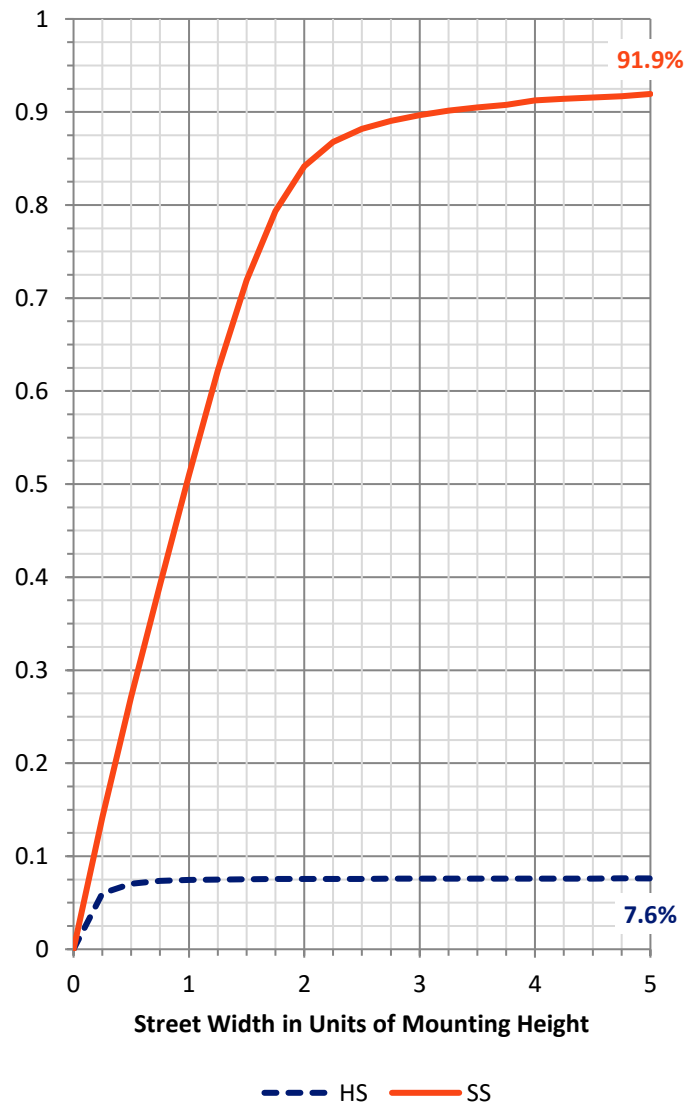
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	459.0	0.0	459.0
	% Fixture	7.7	0.0	7.7
Street Side	Lumens	5512.0	0.0	5512.0
	% Fixture	92.3	0.0	92.3
Total	Lumens	5971.0	0.0	5971.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.2	2.1
10°-20°	260.4	4.4
20°-30°	352.5	5.9
30°-40°	508.7	8.5
40°-50°	844.9	14.1
50°-60°	1292.3	21.6
60°-70°	1607.4	26.9
70°-80°	888.5	14.9
80°-90°	92.1	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°	5971.0	100.0
0°-180°	5971.0	100.0

Coefficient of Utilization



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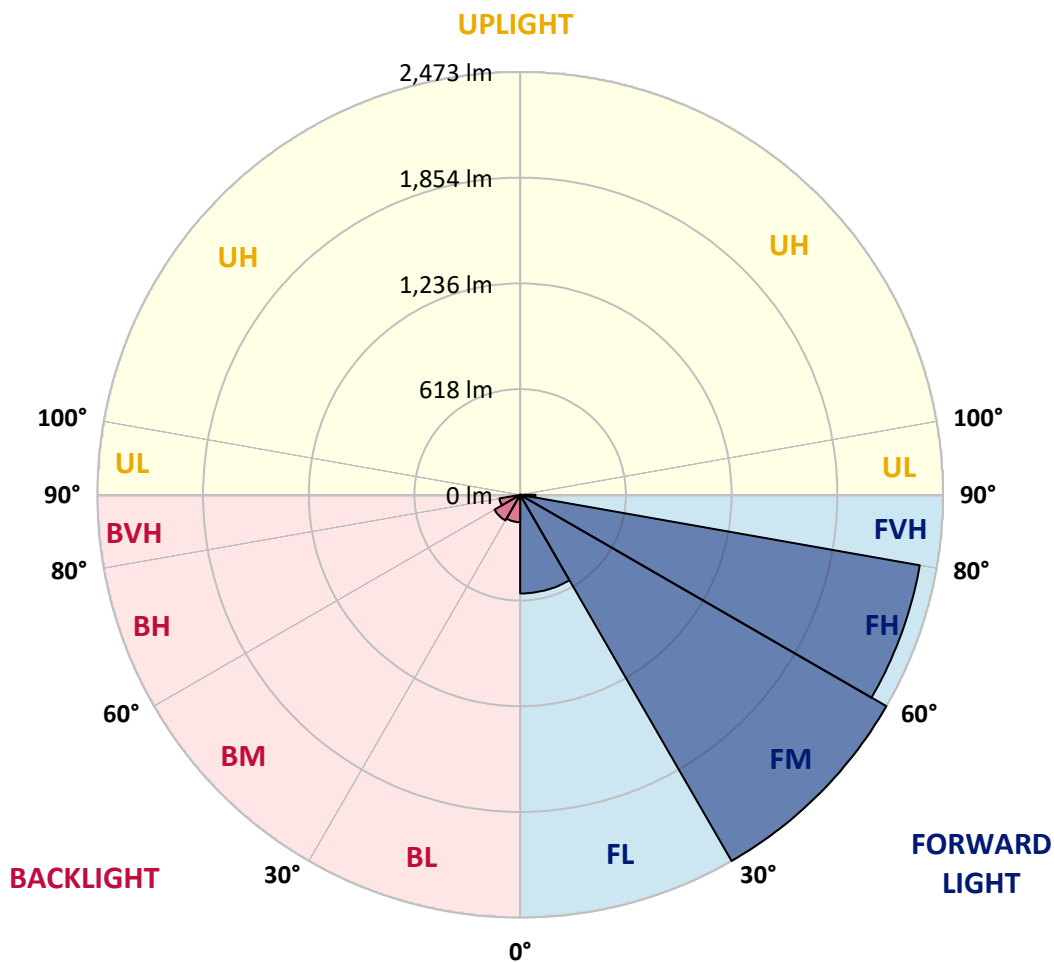
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	577.1	9.7			
FM	(30°-60°)	2472.7	41.4			
FH	(60°-80°)	2372.7	39.7			G2/5000
FVH	(80°-90°)	89.5	1.5			G1/100
BL	(0°-30°)	160.0	2.7	B1/500		
BM	(30°-60°)	173.3	2.9	B0/220		
BH	(60°-80°)	123.1	2.1	B1/500		G1/500
BVH	(80°-90°)	2.7	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°	1509.9	1509.9	1509.9	1509.9	1509.9	1509.9	1509.9	1509.9	1509.9	1509.9	1509.9
2.5°	1706.7	1704.0	1692.7	1690.5	1677.9	1652.6	1623.4	1611.6	1587.8	1549.9	1508.0
5°	1735.1	1736.4	1737.3	1732.4	1730.6	1709.8	1677.4	1663.4	1631.5	1569.3	1492.7
7.5°	1628.8	1632.4	1643.6	1648.6	1670.2	1678.3	1671.6	1662.5	1637.3	1563.9	1456.2
10°	1516.6	1523.4	1535.5	1543.6	1570.2	1591.8	1619.3	1621.6	1616.2	1545.9	1415.3
12.5°	1420.2	1426.5	1440.0	1456.2	1483.3	1511.2	1552.2	1566.6	1584.6	1534.2	1386.0
15°	1337.3	1339.1	1352.2	1372.5	1408.1	1446.3	1495.0	1516.2	1551.3	1529.7	1363.5
17.5°	1264.8	1265.3	1273.8	1292.3	1335.5	1386.0	1442.7	1470.7	1515.3	1523.4	1343.6
20°	1217.1	1216.6	1217.1	1227.0	1265.3	1325.2	1394.1	1423.4	1480.6	1515.7	1323.4
22.5°	1200.9	1198.6	1188.2	1184.6	1209.0	1261.7	1344.1	1382.4	1449.5	1513.5	1308.5
25°	1220.7	1219.3	1197.3	1176.5	1178.8	1211.7	1293.2	1340.0	1425.2	1521.6	1304.9
27.5°	1284.6	1281.9	1248.1	1207.6	1181.9	1187.8	1255.4	1304.5	1405.8	1541.4	1309.9
30°	1368.4	1368.9	1332.8	1283.7	1223.4	1190.0	1235.1	1281.5	1392.7	1571.1	1320.7
32.5°	1461.7	1461.2	1435.5	1378.8	1301.8	1231.5	1244.1	1283.3	1394.5	1614.8	1341.4
35°	1558.0	1553.1	1544.5	1494.5	1404.4	1304.0	1285.1	1313.9	1413.5	1672.5	1376.5
37.5°	1669.3	1667.5	1676.1	1623.4	1531.5	1410.8	1357.2	1376.5	1461.2	1757.6	1433.3
40°	1846.3	1836.4	1840.5	1768.8	1674.7	1554.4	1458.1	1463.0	1537.3	1870.2	1522.9
42.5°	2183.7	2143.6	2068.4	1934.2	1832.4	1713.9	1590.0	1581.5	1645.0	2006.7	1640.9
45°	2586.8	2540.9	2351.3	2116.6	1990.0	1885.1	1753.1	1730.1	1777.4	2169.3	1793.2
47.5°	2923.3	2873.8	2622.4	2307.1	2150.4	2061.6	1933.7	1906.7	1936.0	2358.0	1976.0
50°	3038.2	3010.7	2790.0	2465.7	2312.1	2259.8	2160.3	2115.2	2122.4	2561.6	2189.6
52.5°	2985.5	2976.0	2828.3	2574.2	2461.6	2478.7	2408.5	2361.2	2353.1	2784.1	2425.6
55°	2874.2	2869.7	2797.6	2634.6	2593.6	2679.2	2756.6	2715.7	2639.1	3020.6	2620.6
57.5°	2715.2	2732.3	2784.1	2750.8	2755.7	2890.9	3080.1	3101.2	2986.8	3208.9	2765.2
60°	2290.5	2336.4	2573.8	2875.6	3106.6	3243.1	3426.4	3466.1	3281.4	3337.7	2932.3
62.5°	1693.2	1758.9	2097.2	2651.7	3299.9	3912.9	3887.2	3869.7	3562.5	3510.2	3236.4
65°	994.6	1071.6	1357.6	2072.0	3008.4	4343.5	4747.6	4504.3	3990.8	3868.8	3720.6
67.5°	495.5	495.9	625.2	1093.7	2223.3	4043.1	6003.4	5862.8	4901.6	4397.1	3911.6
70°	381.1	391.4	462.6	635.6	1124.3	3149.0	6291.2	6868.2	5816.9	4373.7	3318.8
72.5°	323.0	329.7	411.7	553.1	840.5	1728.8	5446.2	6070.9	5550.7	3695.4	2446.3
75°	232.4	237.8	364.4	501.8	773.8	857.6	3735.9	4502.5	4164.7	2599.4	1346.3
77.5°	57.7	57.2	127.0	407.2	692.3	714.4	2143.6	2887.3	2389.5	1064.4	345.9
80°	25.7	24.8	28.8	85.6	644.1	674.3	942.8	1458.1	916.6	172.5	105.9
82.5°	18.0	17.1	18.0	31.5	215.3	625.7	569.8	632.0	335.6	59.0	45.0
85°	5.9	5.4	9.9	26.6	60.4	360.8	555.8	472.1	249.5	25.2	30.2
87.5°	0.9	0.9	3.6	14.4	17.6	120.3	326.1	327.0	112.2	14.9	13.5
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°	1509.9	1509.9	1509.9	1509.9	1509.9	1509.9	1509.9	1509.9	1509.9	1509.9	1509.9
2.5°	1486.9	1460.3	1422.9	1385.5	1351.7	1317.1	1289.1	1276.1	1270.2	1262.1	1244.5
5°	1452.6	1404.4	1322.5	1241.8	1166.6	1094.6	1032.8	997.7	959.9	958.1	939.6
7.5°	1397.7	1329.2	1200.0	1074.7	959.9	850.0	755.4	694.1	652.2	626.1	608.1
10°	1336.4	1248.6	1077.4	901.3	745.0	598.2	476.6	397.3	349.1	324.8	310.8
12.5°	1287.8	1177.4	956.7	735.1	539.2	370.7	257.6	200.0	174.3	164.4	159.9
15°	1245.9	1112.1	843.7	586.5	359.9	213.1	149.1	130.2	126.1	126.1	125.7
17.5°	1203.6	1049.1	733.8	440.5	226.6	139.6	117.6	114.9	115.3	116.7	116.7
20°	1163.5	989.2	627.9	314.0	148.6	111.7	106.8	105.9	107.2	109.0	108.6
22.5°	1131.0	936.4	528.8	215.8	114.4	101.3	98.2	96.8	97.7	99.1	98.6
25°	1108.1	891.4	437.8	150.4	99.5	92.3	88.7	86.9	86.0	86.9	86.5
27.5°	1094.1	853.6	352.2	113.1	89.2	83.3	78.8	75.2	73.0	73.0	72.1
30°	1085.1	818.0	276.1	93.7	80.6	74.3	68.0	63.1	59.5	58.6	58.1
32.5°	1084.6	787.4	206.3	82.9	72.5	65.3	57.7	51.3	47.3	46.4	45.9
35°	1095.9	762.6	151.8	74.8	65.3	56.8	48.2	41.4	37.8	37.8	37.4
37.5°	1125.2	748.2	114.9	68.5	59.5	49.5	40.5	34.2	31.1	32.0	32.0
40°	1179.7	745.5	93.7	63.5	54.5	43.2	32.9	27.9	26.6	27.9	27.9
42.5°	1263.0	759.9	83.3	59.9	50.0	36.9	27.5	23.9	23.4	24.8	24.8
45°	1371.6	788.3	77.5	56.8	45.0	30.6	23.0	20.7	20.3	22.1	22.1
47.5°	1503.1	826.5	72.1	53.2	40.1	25.2	19.4	17.6	17.6	19.4	19.8
50°	1658.9	878.3	66.7	49.5	36.0	21.2	16.2	14.9	15.3	17.1	17.6
52.5°	1838.2	941.9	61.7	46.4	31.5	17.1	13.5	12.6	13.1	14.9	15.3
55°	1992.7	997.3	55.9	43.2	25.7	14.0	11.3	10.8	11.3	13.5	13.5
57.5°	2127.4	1050.4	50.4	38.3	20.3	11.3	9.0	9.0	9.9	12.2	12.6
60°	2306.2	1134.2	45.9	32.4	15.3	8.6	7.2	7.7	9.0	10.8	11.3
62.5°	2622.9	1276.5	40.1	27.0	11.3	6.8	5.9	6.3	8.1	10.4	10.8
65°	3019.3	1411.2	33.3	22.5	8.6	5.0	4.5	5.9	8.1	10.4	10.8
67.5°	2978.7	1227.4	26.1	18.0	6.3	4.1	3.6	5.4	7.7	10.4	10.8
70°	2415.7	860.3	19.4	12.2	5.0	3.6	3.6	5.4	7.7	9.9	10.4
72.5°	1675.6	478.8	14.9	8.1	4.5	3.6	3.2	5.0	7.2	9.9	10.4
75°	797.3	146.8	11.7	5.9	4.1	3.2	2.7	5.0	7.2	9.9	10.4
77.5°	153.1	37.4	9.5	5.0	3.6	3.2	2.7	4.5	7.2	9.5	9.9
80°	51.8	16.7	7.7	4.5	3.6	3.2	2.7	4.5	6.8	9.0	9.5
82.5°	28.4	9.5	6.8	4.1	3.6	2.7	2.3	4.1	6.3	9.0	9.5
85°	22.1	6.8	5.4	4.1	3.6	2.7	2.3	4.1	6.3	8.6	9.0
87.5°	11.3	5.0	4.5	4.1	3.6	2.7	2.3	3.6	5.9	8.1	9.0
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)