

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: P198851

Luminaire Tested: **XNV2-AF-02-LED-U-SL2-7050-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24258)
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-SL2-7050-600-HSS
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6482 lumens
Efficiency: N/A
Efficacy: 98.2 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): 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

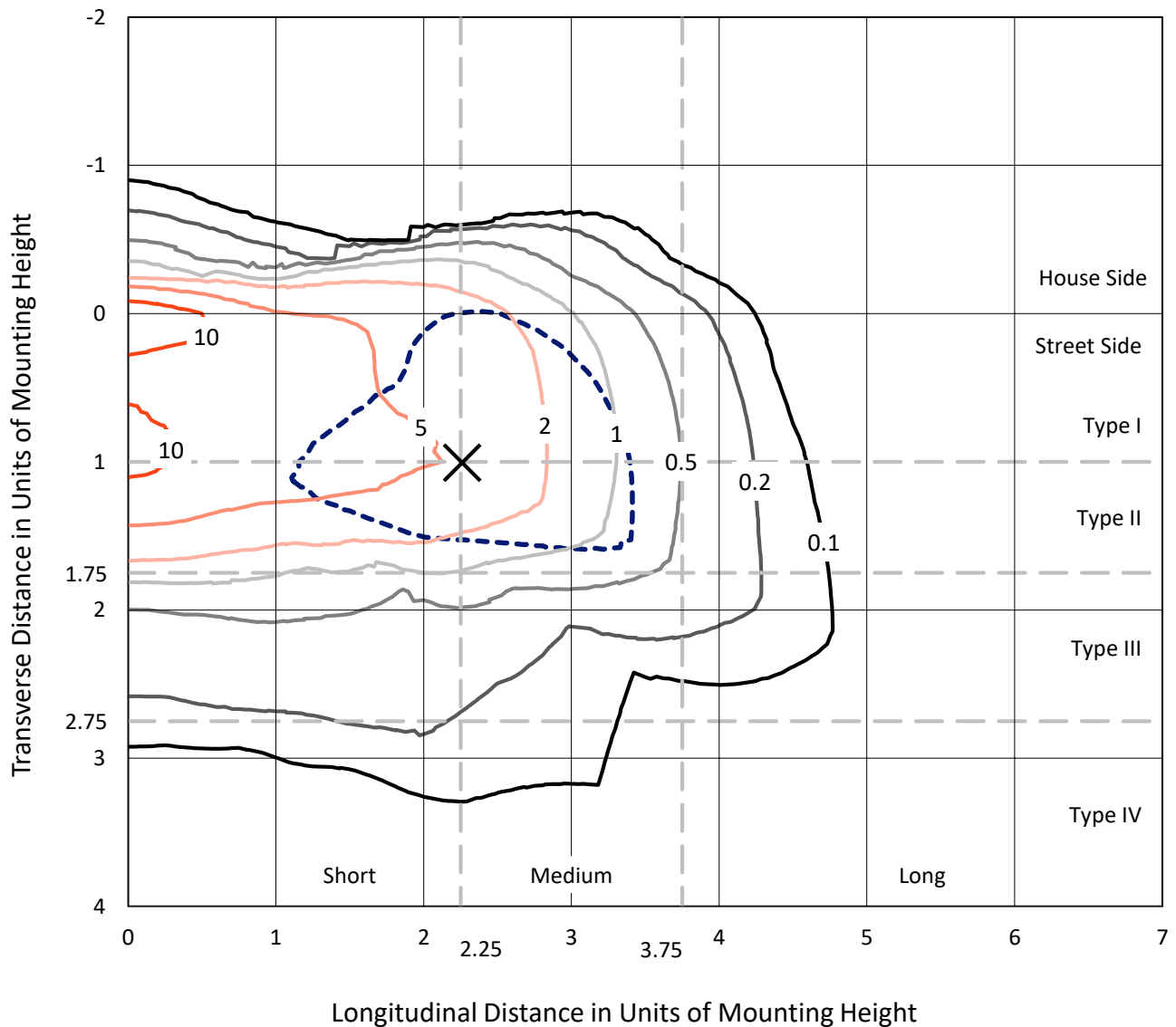


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

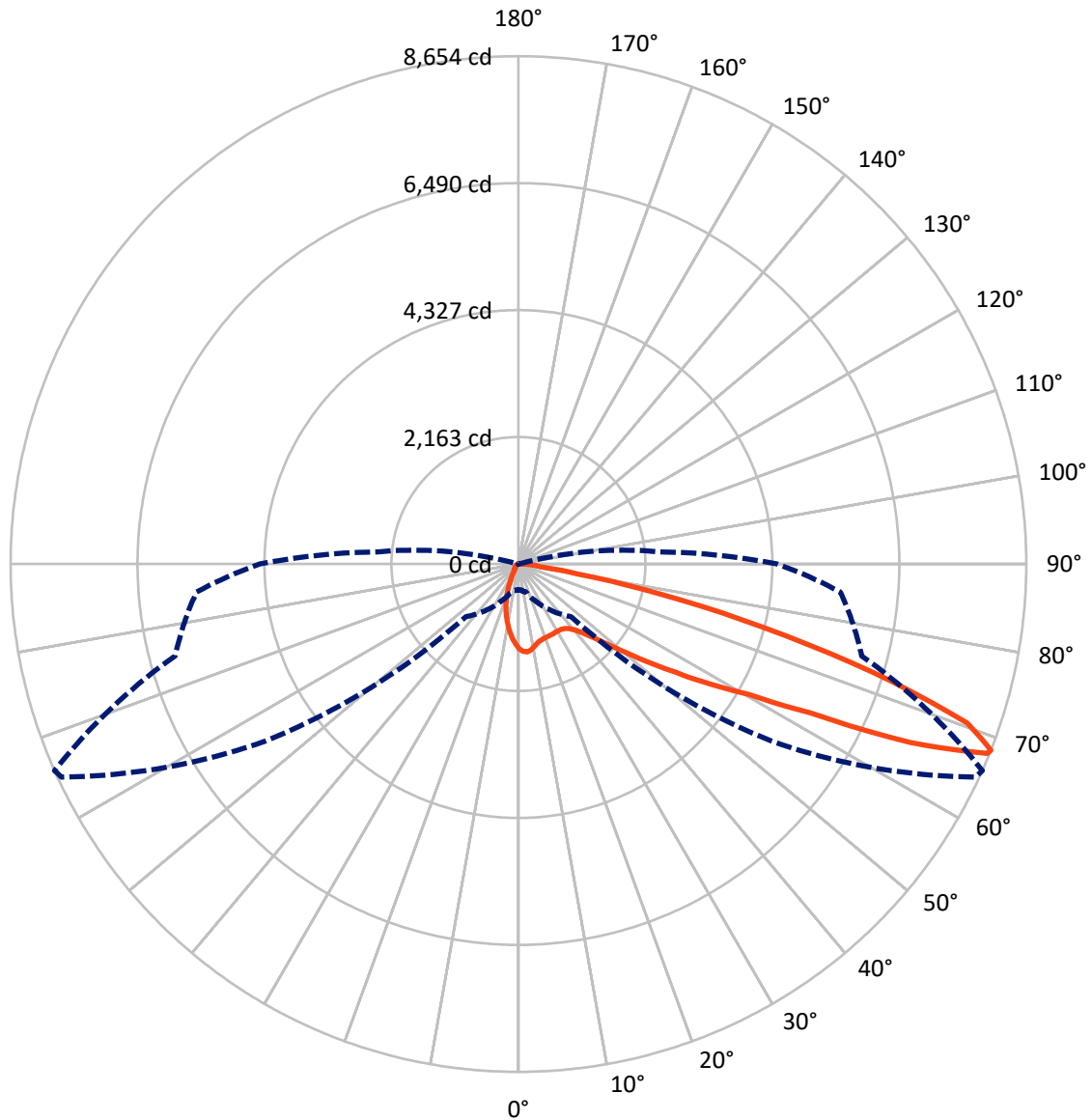


Based on 10 foot mounting height. Maximum calculated value = 14.4 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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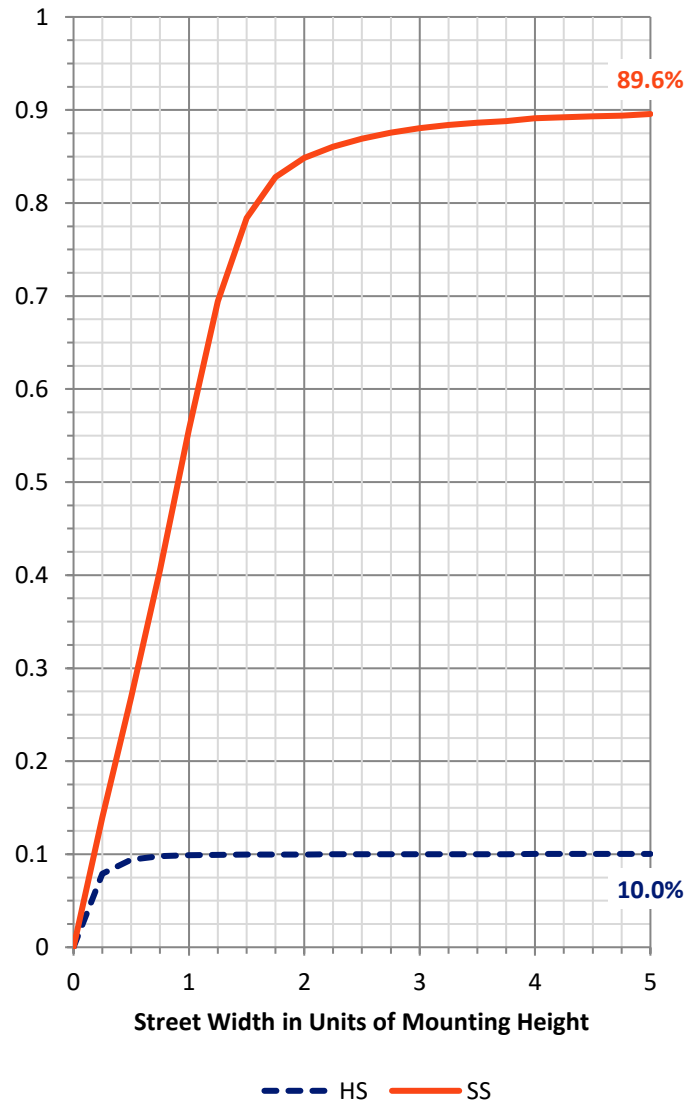
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	656.6	0.0	656.6
	% Fixture	10.1	0.0	10.1
Street Side	Lumens	5825.5	0.0	5825.5
	% Fixture	89.9	0.0	89.9
Total	Lumens	6482.0	0.0	6482.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.4	1.8
10°-20°	254.7	3.9
20°-30°	369.1	5.7
30°-40°	565.1	8.7
40°-50°	966.5	14.9
50°-60°	1511.9	23.3
60°-70°	1740.9	26.9
70°-80°	871.2	13.4
80°-90°	84.4	1.3
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°	6482.0	100.0
0°-180°	6482.0	100.0

Coefficient of Utilization



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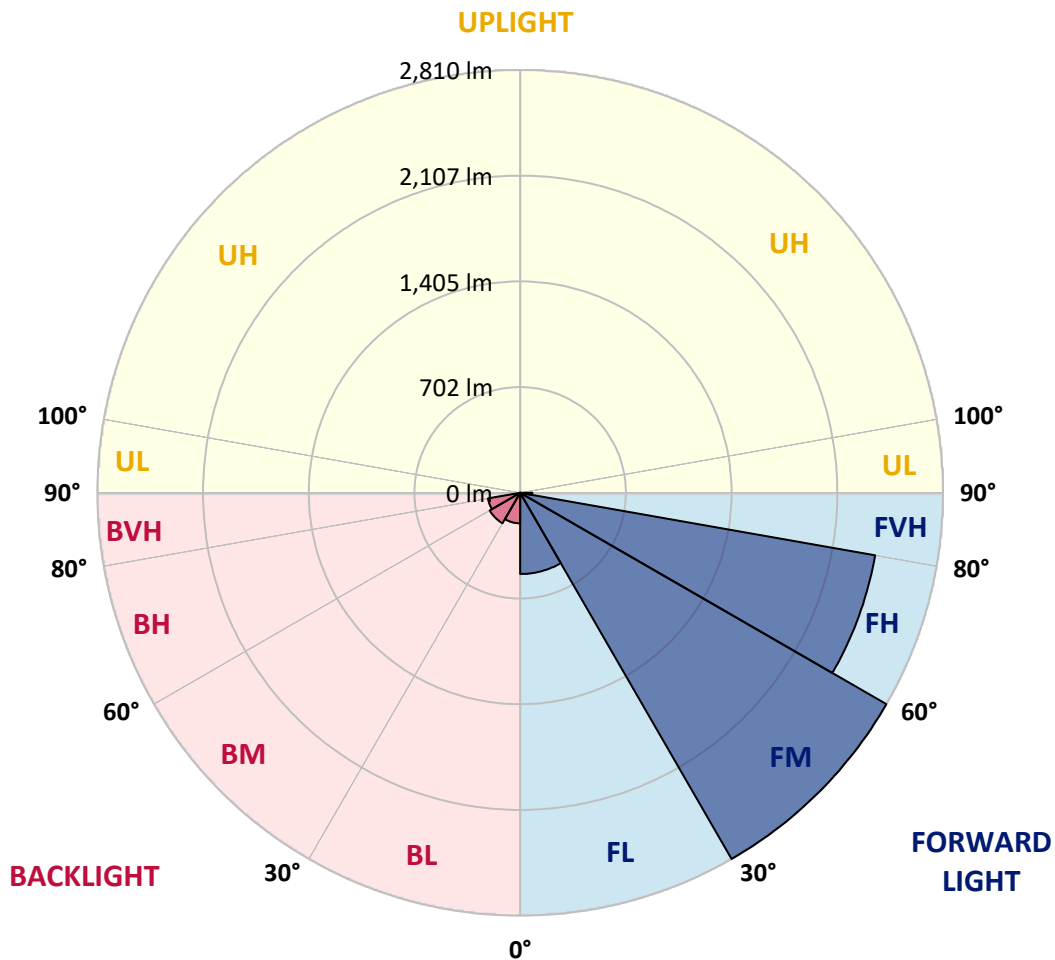
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	539.6	8.3			
FM (30°-60°)	2809.6	43.3			
FH (60°-80°)	2395.1	36.9			G2/5000
FVH (80°-90°)	81.2	1.3			G1/100
BL (0°-30°)	202.6	3.1	B1/500		
BM (30°-60°)	233.8	3.6	B1/1000		
BH (60°-80°)	216.9	3.3	B1/500		G1/500
BVH (80°-90°)	3.2	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1444.1	1444.1	1444.1	1444.1	1444.1	1444.1	1444.1	1444.1	1444.1	1444.1	1444.1
2.5°	1518.9	1519.9	1519.4	1521.0	1519.9	1512.3	1504.2	1486.9	1488.4	1466.0	1441.1
5°	1412.1	1420.7	1429.4	1438.0	1458.9	1477.2	1499.1	1504.2	1504.2	1484.8	1448.2
7.5°	1303.2	1303.7	1313.4	1325.1	1353.0	1386.6	1437.5	1483.3	1484.3	1489.4	1449.2
10°	1221.3	1223.8	1230.4	1243.1	1271.1	1304.2	1361.2	1432.9	1438.5	1476.2	1439.0
12.5°	1157.6	1160.7	1167.8	1182.6	1208.0	1242.1	1302.2	1384.1	1391.7	1463.5	1436.0
15°	1108.8	1112.9	1118.5	1133.2	1160.7	1196.8	1262.5	1351.5	1360.7	1458.4	1445.7
17.5°	1088.4	1088.4	1087.9	1098.1	1125.6	1162.2	1230.9	1334.2	1345.9	1462.4	1461.9
20°	1097.1	1095.6	1084.9	1082.3	1099.1	1135.8	1206.0	1323.0	1336.3	1470.1	1481.8
22.5°	1142.9	1139.8	1115.9	1096.1	1091.0	1115.4	1189.2	1315.4	1331.2	1485.9	1508.2
25°	1240.1	1230.9	1197.8	1153.1	1112.9	1110.3	1177.5	1311.3	1328.1	1504.2	1537.2
27.5°	1366.3	1363.7	1310.8	1250.8	1173.4	1127.1	1173.9	1308.3	1325.1	1517.4	1560.7
30°	1523.0	1524.0	1463.0	1384.6	1267.6	1174.4	1185.1	1306.7	1324.0	1518.4	1570.8
32.5°	1684.8	1685.8	1634.9	1551.0	1396.3	1255.9	1216.7	1313.9	1329.6	1514.4	1570.3
35°	1840.5	1842.1	1811.5	1743.8	1568.3	1368.8	1276.2	1338.3	1349.5	1516.9	1569.3
37.5°	2037.5	2043.6	2005.9	1942.8	1784.0	1534.7	1373.4	1387.6	1396.8	1537.8	1576.9
40°	2373.3	2365.2	2257.3	2150.4	2018.1	1736.7	1513.8	1472.6	1475.7	1591.7	1605.9
42.5°	2764.6	2754.4	2569.7	2385.5	2258.8	1980.5	1693.5	1602.9	1602.4	1682.3	1669.0
45°	3101.5	3095.4	2901.0	2655.2	2525.4	2249.6	1914.8	1790.7	1784.6	1839.0	1784.0
47.5°	3340.6	3335.5	3188.5	2942.2	2833.8	2545.8	2191.1	2046.6	2033.9	2044.1	1970.8
50°	3364.0	3358.4	3307.0	3148.8	3194.1	2980.4	2532.6	2381.9	2365.7	2349.9	2253.2
52.5°	3145.2	3144.7	3171.7	3161.5	3446.5	3539.6	2951.4	2796.7	2777.3	2737.1	2641.0
55°	2697.9	2695.4	2797.7	2946.3	3440.9	4116.6	3590.0	3290.3	3264.8	3184.4	3058.2
57.5°	1971.3	1958.1	2171.8	2486.8	3199.2	4369.0	4604.1	3903.4	3861.2	3606.2	3411.9
60°	1088.4	1093.5	1368.3	1741.3	2626.7	4319.2	5537.4	4618.4	4507.4	3970.1	3774.2
62.5°	610.1	622.8	827.4	1131.7	1674.6	3914.6	6038.1	5848.8	5581.6	4394.5	4232.1
65°	461.5	469.2	572.0	873.2	1055.9	2735.6	6118.0	7569.2	7338.7	5037.7	4961.3
67.5°	434.6	440.7	491.0	724.1	961.7	1418.7	5516.5	8586.9	8615.9	5914.9	5526.2
68°	437.6	445.2	495.6	696.6	960.2	1269.1	5260.0	8592.0	8653.6	6056.4	5506.8
70°	402.0	404.0	524.1	683.4	930.7	999.9	3805.2	8003.3	8113.7	6224.8	4999.0
72.5°	153.7	154.2	235.1	591.8	975.0	1005.5	1916.9	6325.6	6331.2	5417.3	3897.3
75°	79.9	67.2	73.8	185.2	931.2	980.1	961.7	4319.2	4292.2	3663.8	2388.1
77.5°	55.0	46.8	49.4	64.1	387.2	979.5	694.6	2483.7	2478.1	1558.6	681.4
80°	31.0	27.0	29.5	53.9	135.9	919.5	647.3	1067.6	1006.0	273.8	110.4
82.5°	15.8	13.2	15.8	45.3	84.5	578.6	629.5	418.8	373.0	65.1	71.7
85°	4.1	4.1	7.6	31.5	52.4	189.8	564.3	302.3	271.7	28.5	50.9
87.5°	1.0	0.5	3.1	11.7	18.8	41.2	312.9	168.4	145.0	14.8	29.5
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°	1444.1	1444.1	1444.1	1444.1	1444.1	1444.1	1444.1	1444.1	1444.1	1444.1	1444.1
2.5°	1430.9	1416.7	1388.7	1357.1	1334.7	1310.3	1296.1	1278.8	1265.5	1253.8	1262.5
5°	1425.8	1398.3	1336.3	1266.5	1208.0	1152.0	1110.3	1070.6	1040.6	1021.8	1029.4
7.5°	1412.6	1371.9	1271.1	1162.2	1066.6	976.5	903.2	837.6	786.7	759.2	767.9
10°	1390.2	1332.7	1197.3	1046.2	912.4	785.2	676.3	578.6	504.8	470.2	478.3
12.5°	1373.9	1298.1	1121.0	934.3	758.2	577.5	433.0	321.1	263.6	229.0	232.0
15°	1366.8	1271.1	1049.8	816.2	589.8	371.0	234.1	169.4	149.6	142.5	143.0
17.5°	1367.8	1249.7	982.1	693.6	419.8	213.2	143.5	129.2	126.2	124.7	124.7
20°	1370.3	1228.4	911.9	565.8	268.7	137.4	119.6	115.0	113.5	111.4	111.9
22.5°	1378.0	1212.1	841.1	437.6	165.4	111.9	105.8	101.8	99.2	96.2	96.7
25°	1389.7	1199.9	771.4	315.0	116.5	97.7	92.1	86.5	81.9	78.4	78.9
27.5°	1396.8	1182.6	697.1	214.7	96.7	85.5	77.9	70.2	65.1	62.1	61.6
30°	1391.7	1154.6	612.7	141.0	85.5	73.8	64.6	56.0	50.9	48.3	48.3
32.5°	1378.0	1118.5	519.5	102.8	75.8	63.6	52.4	44.8	41.2	39.7	40.2
35°	1362.2	1080.8	420.3	87.0	68.2	53.9	42.7	36.6	35.1	34.6	34.6
37.5°	1353.6	1048.2	325.2	78.9	61.1	44.8	35.1	31.5	30.0	30.0	30.0
40°	1363.2	1023.3	240.7	72.8	53.9	37.1	29.5	27.0	26.5	26.5	26.5
42.5°	1404.4	1014.7	176.1	67.7	46.8	31.0	25.4	23.4	22.9	23.4	23.4
45°	1484.8	1033.5	133.3	62.6	40.2	25.4	21.9	20.4	20.4	20.9	20.9
47.5°	1621.2	1081.8	109.4	57.5	33.6	21.4	18.8	17.8	17.8	18.3	18.3
50°	1832.9	1171.4	98.2	51.9	28.0	18.3	15.8	15.3	15.3	15.8	16.3
52.5°	2154.5	1341.8	92.6	46.3	22.9	15.3	13.2	12.7	13.2	13.7	13.7
55°	2512.2	1560.1	86.0	40.7	19.3	12.7	10.7	10.7	11.2	12.2	12.2
57.5°	2845.5	1770.8	79.9	33.6	16.8	10.2	8.7	8.7	9.7	10.7	10.7
60°	3197.6	1977.4	71.7	27.0	14.2	8.1	7.1	7.1	8.7	9.7	10.2
62.5°	3632.7	2217.6	61.1	21.4	11.2	6.1	5.1	6.6	8.1	9.7	9.7
65°	4261.7	2516.3	47.8	16.8	8.7	4.6	4.1	6.1	7.6	9.2	9.7
67.5°	4490.1	2478.1	36.1	13.7	6.6	3.6	3.6	5.6	7.6	9.2	9.2
68°	4406.7	2394.7	34.6	13.2	6.1	3.6	3.6	5.6	7.6	9.2	9.2
70°	3839.8	1957.6	28.5	10.2	5.1	3.1	3.1	5.1	7.6	8.7	9.2
72.5°	2875.0	1300.6	24.4	6.6	4.6	3.1	2.5	5.1	7.1	8.7	8.7
75°	1649.2	539.9	20.9	5.1	4.1	2.5	2.5	4.6	7.1	8.7	8.7
77.5°	466.1	126.2	16.8	4.1	3.6	2.5	2.0	4.6	6.6	8.1	8.1
80°	85.5	37.7	13.2	3.6	3.1	2.5	2.0	4.6	6.6	8.1	8.1
82.5°	56.5	17.8	9.7	3.6	3.1	2.5	2.0	4.1	6.1	7.6	7.6
85°	42.2	12.7	6.1	3.6	3.1	2.5	2.0	4.1	6.1	7.6	7.6
87.5°	23.4	5.6	4.6	4.1	3.6	2.5	2.0	3.6	5.6	7.1	7.1
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)