

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: P198621

Luminaire Tested: **XNV2-AF-02-LED-U-T3R-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24250)
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-T3R-7030-800
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8771 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Full 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

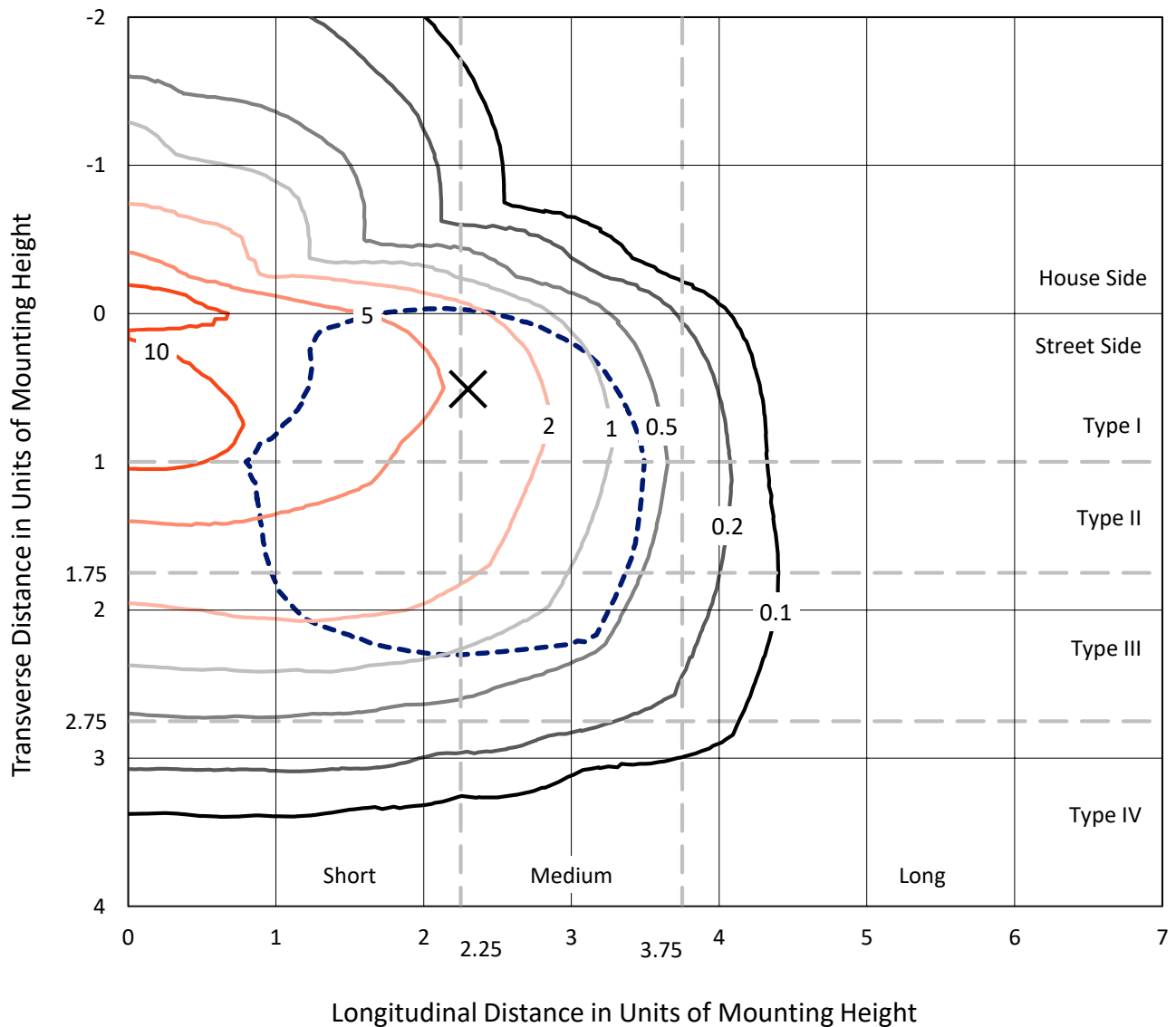


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

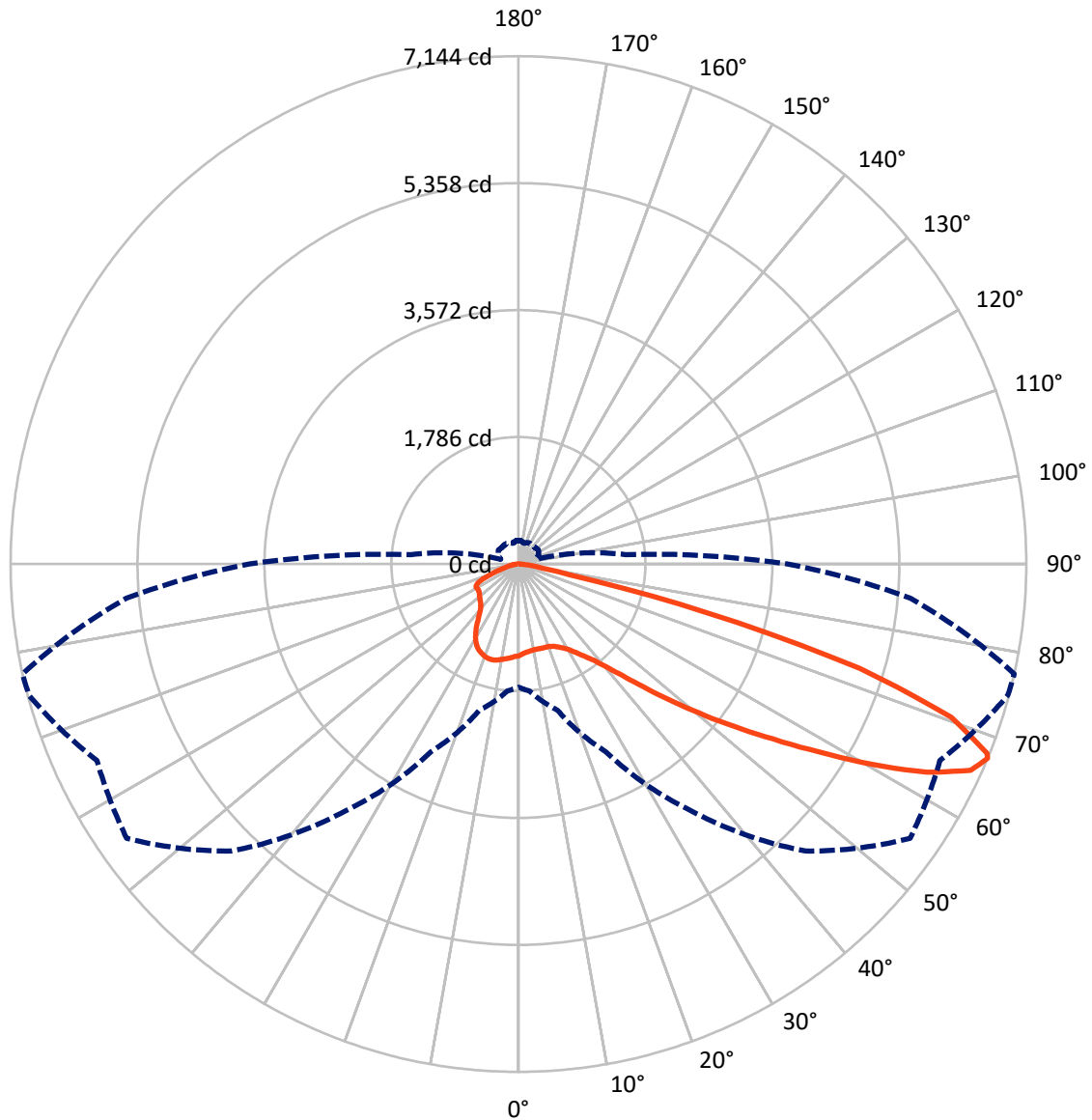


Based on 10 foot mounting height. Maximum calculated value = 15.5 fc
 Type III - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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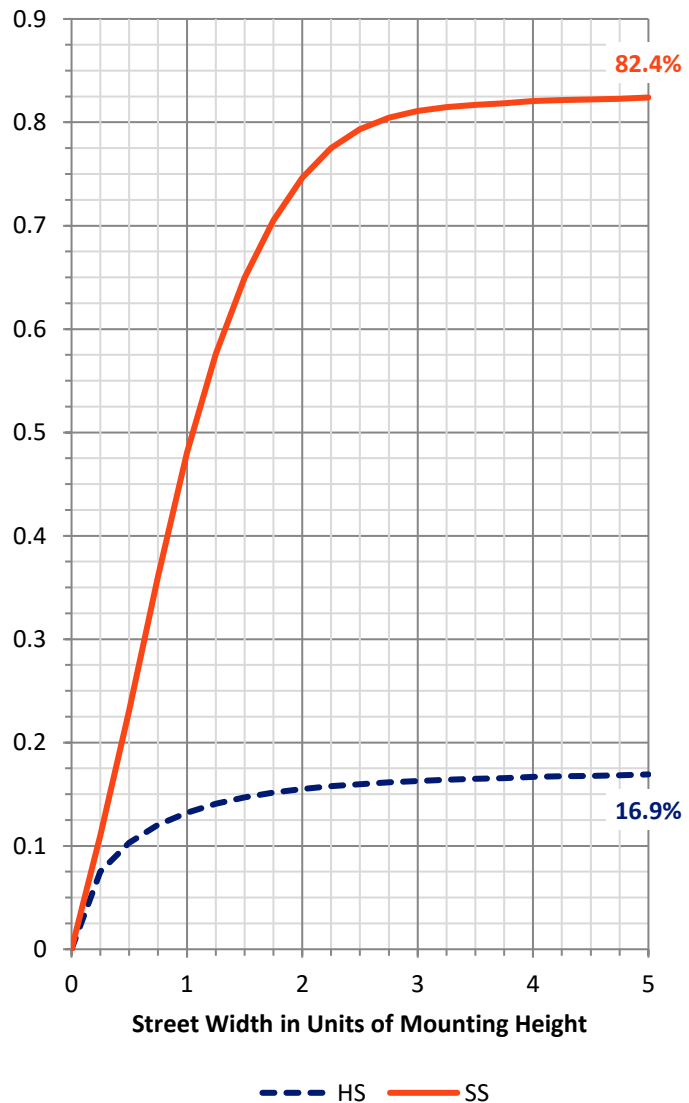
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1507.3	0.0	1507.3
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	7263.7	0.0	7263.7
	% Fixture	82.8	0.0	82.8
Total	Lumens	8771.0	0.0	8771.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.0	1.3
10°-20°	318.4	3.6
20°-30°	541.0	6.2
30°-40°	865.4	9.9
40°-50°	1332.3	15.2
50°-60°	1848.5	21.1
60°-70°	2465.8	28.1
70°-80°	1173.5	13.4
80°-90°	111.1	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°	8771.0	100.0
0°-180°	8771.0	100.0

Coefficient of Utilization



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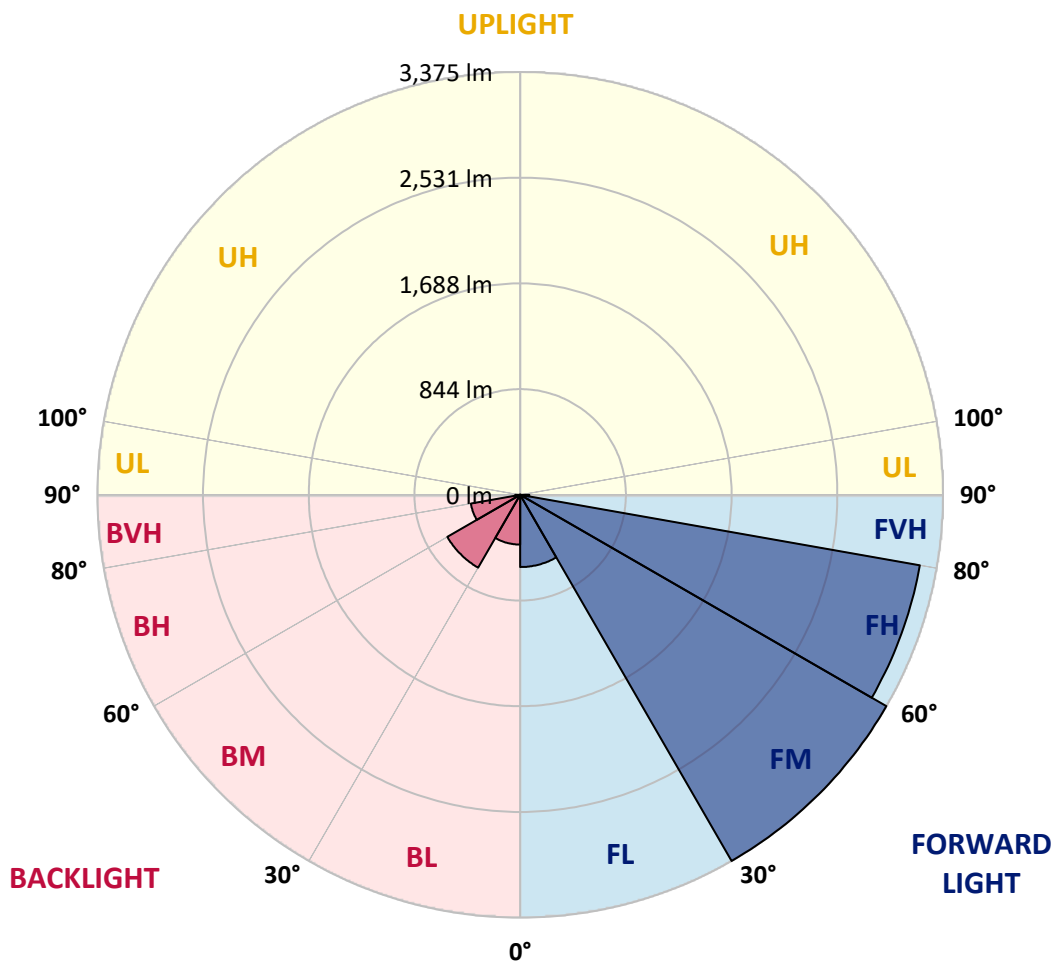
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	576.8	6.6			
FM	(30°-60°)	3375.2	38.5			
FH	(60°-80°)	3239.6	36.9			G2/5000
FVH	(80°-90°)	72.2	0.8			G1/100
BL	(0°-30°)	397.6	4.5	B1/500		
BM	(30°-60°)	671.1	7.7	B1/1000		
BH	(60°-80°)	399.6	4.6	B1/500		G1/500
BVH	(80°-90°)	38.9	0.4			G1/100
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°	65°	75°	77.5°	85°
0°	1290.9	1290.9	1290.9	1290.9	1290.9	1290.9	1290.9	1290.9	1290.9	1290.9	1290.9
2.5°	1157.5	1162.9	1163.5	1179.2	1186.2	1204.1	1223.6	1241.0	1256.2	1261.6	1271.3
5°	1041.5	1041.5	1043.1	1053.4	1073.5	1102.2	1142.9	1187.3	1233.9	1245.3	1274.1
7.5°	980.8	981.8	982.9	993.2	1008.9	1034.4	1075.1	1135.8	1213.3	1232.3	1282.7
10°	986.2	984.5	979.1	977.0	983.5	999.7	1035.0	1097.3	1196.0	1225.3	1298.5
12.5°	1071.3	1068.0	1050.1	1024.1	1000.3	994.3	1018.7	1077.8	1187.9	1225.3	1325.0
15°	1217.1	1219.3	1184.1	1129.8	1067.5	1025.2	1022.0	1070.7	1185.1	1228.5	1355.9
17.5°	1406.9	1408.0	1359.2	1280.6	1177.0	1089.7	1044.2	1070.7	1185.1	1231.8	1385.7
20°	1608.6	1601.0	1545.7	1447.0	1312.5	1179.2	1084.8	1077.3	1188.4	1236.6	1413.9
22.5°	1781.5	1774.5	1716.4	1612.9	1458.9	1284.9	1139.6	1098.9	1206.3	1256.7	1453.5
25°	1932.8	1937.1	1880.7	1764.2	1604.8	1404.2	1221.5	1148.8	1243.7	1293.0	1502.3
27.5°	2116.6	2108.4	2043.4	1932.2	1754.9	1527.8	1323.9	1211.7	1288.1	1336.9	1561.9
30°	2329.1	2325.3	2237.5	2123.1	1920.3	1666.0	1425.3	1279.5	1346.2	1397.1	1636.8
32.5°	2587.1	2586.6	2492.3	2351.8	2106.3	1822.2	1545.1	1372.2	1430.7	1482.2	1736.0
35°	2879.4	2878.8	2781.2	2595.8	2320.4	1995.1	1686.1	1485.0	1535.4	1589.6	1854.2
37.5°	3082.1	3078.9	3027.9	2847.9	2557.3	2196.3	1862.3	1636.8	1654.1	1714.8	1996.7
40°	3121.2	3140.7	3184.6	3078.3	2815.9	2419.6	2039.0	1799.9	1816.2	1894.3	2176.2
42.5°	3078.9	3104.4	3250.2	3280.0	3074.5	2690.2	2260.2	2026.0	2046.6	2143.7	2387.1
45°	3042.0	3064.2	3246.9	3391.7	3329.9	2985.1	2536.2	2302.0	2341.0	2461.4	2627.8
47.5°	2979.1	2999.7	3183.0	3411.8	3475.7	3269.2	2868.5	2633.8	2701.0	2846.8	2902.1
50°	2975.9	2985.1	3095.7	3344.5	3526.1	3484.9	3236.6	3021.9	3125.0	3293.0	3205.7
52.5°	2893.5	2958.0	3058.3	3237.2	3527.2	3610.7	3599.3	3447.5	3606.4	3792.3	3538.6
55°	2389.3	2463.5	2933.6	3184.6	3520.7	3718.6	3930.6	3900.2	4148.5	4344.3	3911.6
57.5°	2231.0	2262.4	2573.6	3200.3	3574.9	3897.0	4261.8	4386.5	4768.8	4982.4	4358.9
60°	2187.6	2220.6	2501.5	3207.9	3721.9	4221.7	4711.3	4935.7	5497.9	5724.6	4866.9
62.5°	2139.3	2182.2	2506.9	3215.0	3979.9	4702.1	5307.7	5531.6	6246.7	6448.9	5342.9
65°	1998.4	2055.3	2406.6	3170.5	4262.4	5304.9	6095.9	6152.9	6865.3	6993.7	5630.2
67°	1731.1	1793.4	2131.2	2913.5	4236.4	5711.0	6726.5	6541.6	7128.2	7143.9	5537.0
67.5°	1646.5	1711.0	2037.9	2806.7	4162.1	5764.1	6838.1	6595.3	7126.0	7108.7	5450.2
70°	1108.7	1181.3	1443.2	2060.7	3338.6	5364.6	6811.0	6429.9	6658.7	6459.7	4682.6
72.5°	550.3	552.5	720.0	1128.8	2022.8	3847.6	5681.7	5500.7	5397.7	5021.9	3436.2
75°	265.1	270.0	339.9	498.8	852.8	1986.4	3874.8	3711.6	3160.2	2736.2	1719.7
77.5°	202.2	207.1	264.0	324.7	355.7	647.9	1919.2	1551.1	915.7	731.4	484.7
80°	156.1	165.4	222.8	249.4	235.3	259.7	603.4	474.9	356.2	326.9	240.2
82.5°	122.0	127.4	189.2	189.2	162.6	174.0	280.8	274.3	221.2	199.5	129.0
85°	86.2	97.0	152.3	141.0	106.8	107.9	168.1	161.0	113.9	91.6	50.4
87.5°	38.5	49.3	108.4	92.2	56.9	43.9	68.9	59.1	45.0	34.7	23.3
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°	1290.9	1290.9	1290.9	1290.9	1290.9	1290.9	1290.9	1290.9	1290.9	1290.9	1290.9
2.5°	1282.2	1290.9	1304.4	1312.5	1323.4	1327.7	1332.1	1339.7	1345.6	1344.0	1341.3
5°	1294.1	1308.8	1325.6	1331.0	1331.0	1325.6	1322.3	1322.8	1321.2	1320.1	1316.9
7.5°	1311.5	1331.5	1343.4	1338.0	1321.2	1300.1	1280.0	1268.1	1256.7	1249.7	1251.8
10°	1335.9	1358.1	1358.6	1334.8	1294.7	1248.6	1209.0	1183.5	1159.1	1148.3	1151.5
12.5°	1371.1	1393.3	1374.4	1322.8	1252.4	1180.3	1107.6	1055.0	1007.9	996.5	993.2
15°	1409.0	1426.4	1384.1	1297.4	1191.6	1072.9	950.9	872.3	819.7	810.5	807.3
17.5°	1442.1	1451.9	1379.2	1251.8	1095.7	908.6	766.6	713.5	702.6	708.0	708.0
20°	1471.4	1468.1	1358.1	1181.3	944.4	726.5	644.1	643.5	658.2	671.7	672.8
22.5°	1508.3	1482.8	1324.5	1076.7	763.9	606.1	592.0	606.1	622.4	637.6	639.2
25°	1552.2	1499.0	1279.5	927.6	614.3	550.3	556.2	568.2	578.5	590.4	590.9
27.5°	1596.1	1511.5	1216.0	752.5	532.9	514.5	521.0	525.9	528.6	536.2	536.2
30°	1647.1	1521.3	1124.4	602.9	495.5	483.1	479.3	477.1	479.3	489.6	490.1
32.5°	1711.0	1538.6	999.2	517.2	478.2	460.8	441.3	430.5	438.1	456.5	459.7
35°	1783.7	1559.2	849.0	483.1	472.2	450.0	414.2	397.4	400.1	416.9	419.6
37.5°	1874.8	1585.8	701.0	474.9	478.2	448.9	401.7	377.9	366.0	366.5	366.0
40°	1991.3	1612.4	583.9	477.1	491.2	451.6	395.8	358.4	333.4	334.5	336.7
42.5°	2113.3	1629.7	509.6	483.6	506.9	455.4	393.6	339.4	317.7	336.1	352.9
45°	2255.9	1624.8	471.1	489.6	518.8	457.0	385.5	337.2	319.3	374.6	406.1
47.5°	2419.6	1603.7	449.4	492.3	522.1	456.5	379.5	344.3	332.9	428.8	464.6
50°	2597.4	1570.6	432.1	487.9	520.5	454.3	386.0	352.9	338.3	440.8	468.4
52.5°	2792.1	1540.3	414.2	478.2	512.3	447.8	394.1	349.1	323.1	406.1	427.2
55°	3022.5	1533.2	394.1	461.4	498.8	440.8	389.8	337.2	306.3	360.0	373.0
57.5°	3286.0	1577.1	368.1	440.8	480.3	426.7	379.5	330.7	300.4	327.5	334.5
60°	3620.5	1674.2	340.5	419.1	457.6	405.5	370.3	332.3	302.0	322.6	324.2
62.5°	3881.8	1761.4	315.5	392.5	427.2	380.0	360.5	334.0	306.9	329.1	326.4
65°	3976.7	1718.6	284.6	352.9	384.4	351.9	347.0	335.0	306.9	332.9	326.9
67°	3782.0	1514.2	255.4	313.4	343.7	326.9	334.0	330.7	301.4	332.3	322.0
67.5°	3689.3	1442.1	247.8	306.9	332.9	319.3	330.7	328.5	299.8	331.3	319.3
70°	3042.5	1034.4	209.3	257.5	278.7	281.4	310.7	314.4	286.8	311.2	289.5
72.5°	2164.8	647.3	180.5	199.5	225.0	240.7	283.5	295.5	269.4	270.5	252.6
75°	1071.3	347.5	161.0	154.0	175.1	200.6	247.2	269.4	244.0	225.5	219.6
77.5°	361.6	196.8	136.1	124.2	136.1	161.0	204.9	235.3	215.2	190.8	187.0
80°	187.0	143.1	106.3	99.8	107.3	124.7	160.5	195.7	183.8	184.9	152.3
82.5°	116.6	87.3	76.4	75.9	81.3	95.4	118.2	158.9	157.8	135.0	98.1
85°	54.2	50.4	48.8	50.4	52.0	54.2	77.0	113.3	119.8	72.6	64.5
87.5°	22.8	22.2	19.5	21.1	23.3	22.8	30.9	48.3	67.2	45.5	41.7
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)