

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: P198685

Luminaire Tested: **XNV2-AF-02-LED-U-RW-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198685
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24161)
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-RW-800
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10183.5 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B3 - U0 - G1

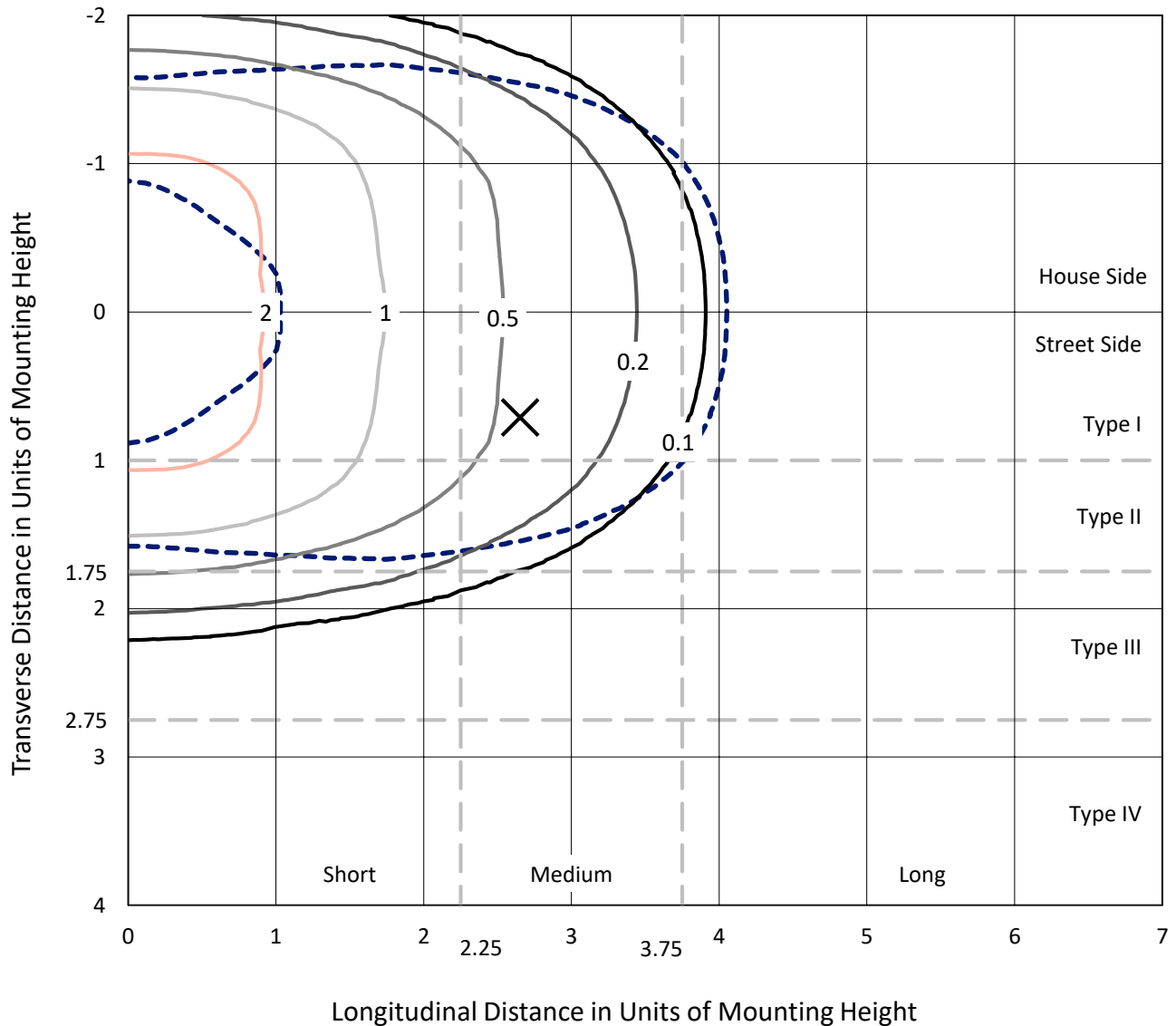
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P198685
 CATALOG NUMBER: XNV2-AF-02-LED-U-RW-800

Iso-Footcandle Lines of Horizontal Illumination

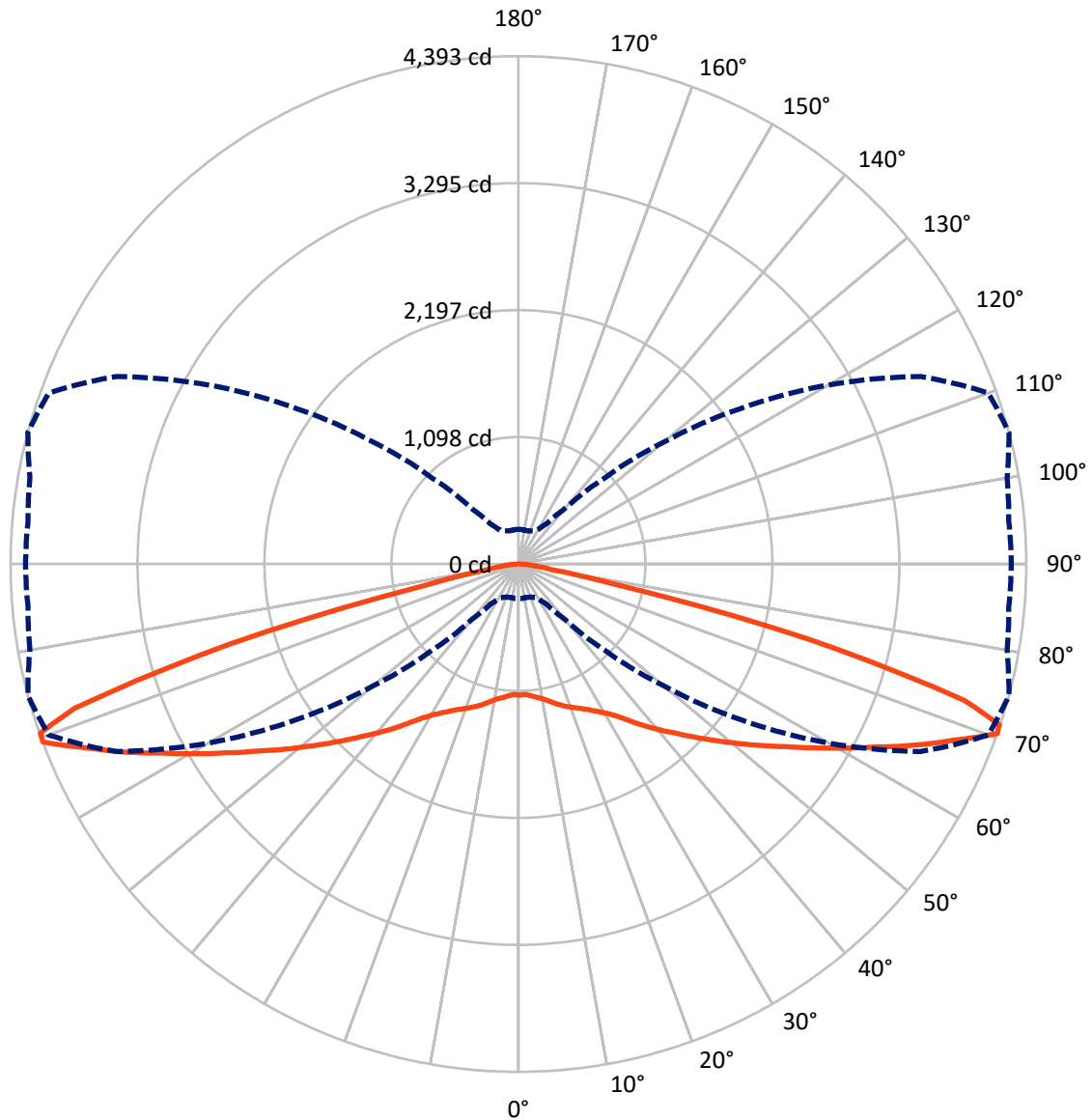
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5091.7	0.0	5091.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5091.7	0.0	5091.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	10183.5	0.0	10183.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.8	1.1
10°-20°	337.3	3.3
20°-30°	633.6	6.2
30°-40°	1116.1	11.0
40°-50°	1849.7	18.2
50°-60°	2573.2	25.3
60°-70°	2429.2	23.9
70°-80°	1037.5	10.2
80°-90°	98.0	1.0
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°	10183.5	100.0
0°-180°	10183.5	100.0



REPORT NUMBER: P198685

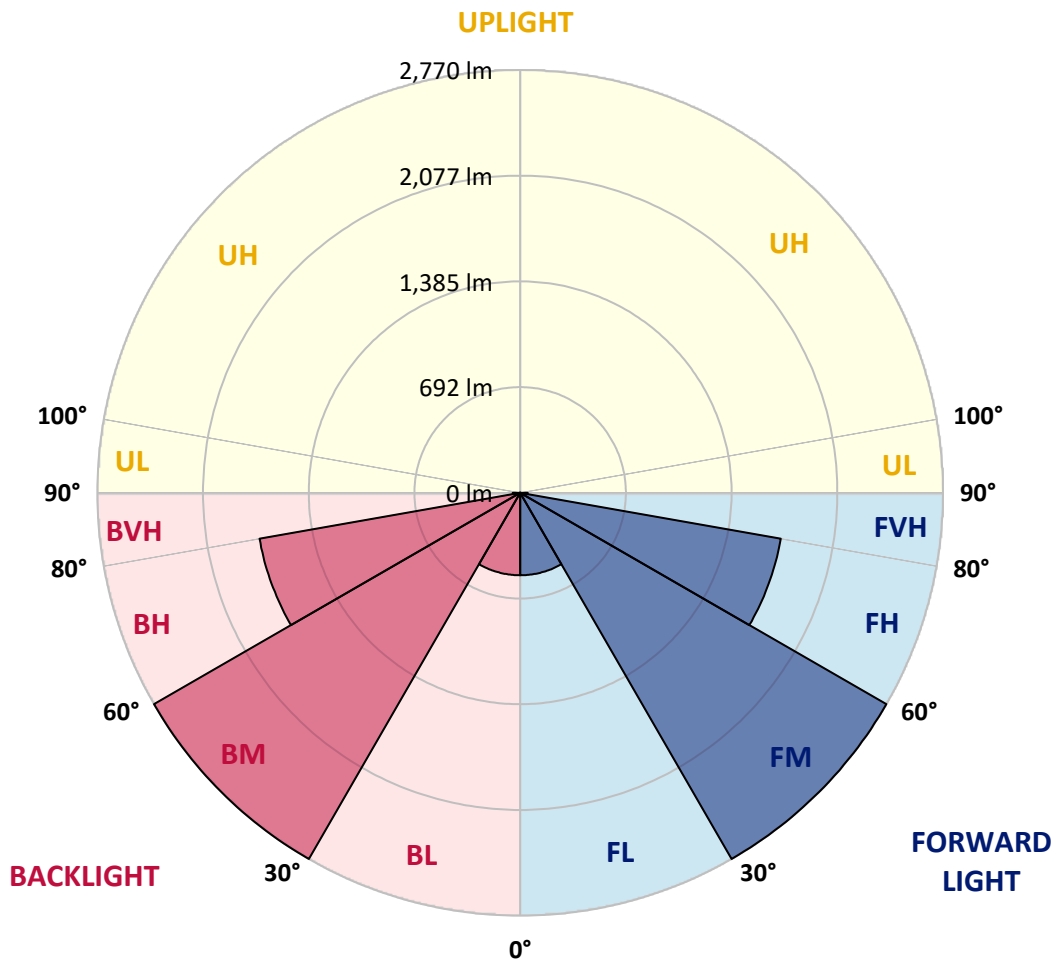
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	539.9	5.3			
FM	(30°-60°)	2769.5	27.2			
FH	(60°-80°)	1733.4	17.0			G1/1800
FVH	(80°-90°)	49.0	0.5			G1/100
BL	(0°-30°)	539.9	5.3	B2/1000		
BM	(30°-60°)	2769.5	27.2	B3/5000		
BH	(60°-80°)	1733.4	17.0	B3/2500		G1/1800
BVH	(80°-90°)	49.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Medium





REPORT NUMBER: P198685

CATALOG NUMBER: XNV2-AF-02-LED-U-RW-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0
2.5°	1141.0	1140.4	1141.0	1139.2	1139.8	1139.2	1139.2	1136.6	1136.6	1135.3	1133.4
5°	1128.3	1129.5	1129.5	1129.5	1131.5	1131.5	1134.0	1134.7	1136.6	1138.5	1139.8
7.5°	1107.2	1107.9	1109.8	1111.0	1114.9	1120.0	1125.1	1130.9	1136.0	1142.3	1149.4
10°	1089.3	1090.7	1093.8	1097.0	1104.1	1110.4	1119.3	1128.3	1137.2	1148.1	1158.9
12.5°	1079.8	1081.7	1086.8	1091.9	1102.7	1111.0	1123.2	1137.2	1149.4	1159.5	1171.7
15°	1081.1	1081.7	1088.7	1095.8	1111.0	1122.6	1139.8	1156.3	1171.1	1182.5	1196.5
17.5°	1099.6	1100.8	1107.9	1118.1	1132.7	1147.4	1166.0	1183.1	1203.0	1216.4	1233.0
20°	1136.0	1137.8	1145.5	1156.3	1172.3	1187.6	1206.8	1224.7	1245.0	1261.0	1277.7
22.5°	1183.1	1186.3	1194.7	1208.1	1224.0	1242.5	1262.3	1280.8	1300.0	1315.9	1329.9
25°	1246.4	1250.1	1259.2	1272.6	1288.5	1308.3	1328.7	1347.8	1367.6	1379.8	1391.2
27.5°	1331.3	1337.6	1347.2	1358.1	1372.1	1393.2	1412.3	1428.2	1447.4	1460.8	1468.4
30°	1445.4	1454.4	1462.0	1473.6	1483.8	1506.1	1521.4	1534.1	1548.8	1556.5	1558.4
32.5°	1585.3	1593.6	1601.1	1609.5	1623.5	1643.9	1658.6	1665.7	1673.2	1672.0	1665.0
35°	1742.8	1749.2	1753.6	1768.4	1791.4	1804.8	1815.6	1818.2	1819.4	1806.0	1792.6
37.5°	1908.7	1916.4	1920.3	1943.2	1964.9	1980.2	1985.3	1991.1	1987.3	1964.9	1940.6
40°	2088.0	2096.4	2107.9	2127.6	2153.2	2167.8	2174.3	2173.6	2170.4	2144.2	2104.7
42.5°	2264.2	2274.4	2284.0	2318.5	2339.5	2364.4	2367.6	2367.0	2359.9	2330.0	2284.0
45°	2413.6	2425.7	2445.5	2483.7	2517.6	2547.6	2559.7	2564.1	2557.2	2525.3	2472.9
47.5°	2536.7	2545.0	2570.0	2616.5	2659.9	2704.0	2728.2	2745.4	2744.8	2721.8	2666.3
50°	2621.0	2630.5	2661.2	2713.5	2767.7	2819.5	2867.3	2906.2	2924.7	2908.1	2856.5
52.5°	2645.2	2657.3	2697.5	2760.1	2823.2	2892.8	2964.3	3033.3	3074.7	3084.9	3044.7
55°	2543.2	2556.6	2615.2	2702.0	2806.1	2908.8	3017.3	3115.5	3201.0	3240.6	3224.6
57.5°	2245.7	2255.3	2330.0	2442.3	2590.9	2771.6	2954.1	3134.0	3280.8	3383.6	3401.4
60°	1776.0	1788.1	1869.9	1988.5	2157.6	2386.1	2641.4	2936.2	3224.0	3459.5	3576.3
62.5°	1198.5	1206.8	1285.2	1393.8	1578.8	1799.0	2083.6	2456.9	2867.3	3287.9	3617.2
65°	629.2	629.2	682.2	758.1	905.5	1102.7	1394.4	1777.3	2265.5	2790.7	3341.5
67.5°	365.0	364.4	376.5	393.7	440.4	520.1	681.0	962.4	1424.4	2035.8	2662.4
70°	301.3	299.3	297.4	297.4	304.4	316.5	347.2	424.4	620.9	1049.8	1638.2
71°	287.9	286.5	281.4	279.5	282.7	289.1	302.5	338.2	441.0	716.1	1223.3
72.5°	271.9	268.6	261.1	257.8	258.5	261.1	264.8	278.9	310.2	407.1	697.6
75°	247.7	240.0	230.4	225.9	224.0	223.3	223.3	227.2	234.3	245.7	285.9
77.5°	219.5	208.7	198.5	194.1	190.8	188.9	187.6	185.1	183.8	188.9	203.6
80°	185.7	174.2	165.9	163.4	161.4	157.6	152.5	147.4	144.2	146.8	155.7
82.5°	143.6	132.1	133.4	134.0	130.8	124.5	119.4	113.5	107.8	106.6	111.1
85°	114.3	108.5	104.6	112.9	106.0	98.3	91.2	81.7	68.3	56.2	61.3
87.5°	49.1	49.8	71.5	107.8	94.4	75.9	63.2	51.0	32.5	24.2	24.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P198685

CATALOG NUMBER: XNV2-AF-02-LED-U-RW-800

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0
2.5°	1132.7	1132.7	1130.9	1129.5	1129.5	1129.5	1128.3	1128.9
5°	1140.4	1141.7	1142.9	1142.3	1144.3	1146.1	1145.5	1144.9
7.5°	1153.2	1157.0	1160.8	1162.8	1165.3	1167.9	1168.5	1166.6
10°	1166.0	1173.6	1179.4	1184.5	1187.6	1190.2	1192.1	1191.4
12.5°	1181.9	1192.8	1203.0	1213.1	1220.2	1224.0	1227.8	1226.5
15°	1208.1	1220.2	1233.0	1246.4	1257.2	1262.9	1268.7	1267.4
17.5°	1243.8	1254.6	1264.9	1278.3	1291.7	1298.0	1304.5	1303.8
20°	1288.5	1296.8	1302.5	1310.2	1322.9	1329.9	1335.7	1333.8
22.5°	1339.6	1342.1	1342.7	1345.3	1355.5	1363.8	1371.5	1373.3
25°	1395.0	1393.2	1389.3	1387.4	1394.4	1403.4	1412.9	1415.5
27.5°	1463.9	1457.6	1448.0	1440.3	1442.3	1453.7	1464.6	1467.1
30°	1550.8	1536.1	1515.7	1501.0	1498.4	1510.6	1522.0	1525.8
32.5°	1649.7	1629.9	1601.8	1579.4	1569.9	1580.8	1591.0	1596.7
35°	1767.0	1745.4	1711.6	1682.9	1667.5	1674.6	1692.5	1698.8
37.5°	1906.2	1876.2	1838.5	1802.2	1776.7	1778.0	1797.1	1804.8
40°	2060.0	2016.6	1968.8	1923.5	1886.4	1883.9	1901.2	1906.9
42.5°	2220.2	2164.7	2108.5	2049.2	2003.2	1995.0	2017.3	2017.9
45°	2392.5	2321.1	2251.5	2182.6	2134.7	2120.0	2141.6	2144.2
47.5°	2576.3	2487.0	2404.7	2330.0	2278.3	2255.3	2276.4	2280.2
50°	2767.7	2675.2	2579.5	2496.5	2435.9	2407.8	2432.7	2435.2
52.5°	2957.2	2869.9	2774.8	2679.7	2606.3	2574.4	2603.7	2612.7
55°	3148.1	3063.8	2974.5	2879.4	2786.9	2758.8	2790.7	2800.3
57.5°	3346.6	3265.6	3184.4	3088.7	2998.8	2956.0	2990.5	3003.9
60°	3565.5	3494.0	3417.4	3321.0	3232.3	3182.6	3212.0	3227.2
62.5°	3780.5	3765.9	3696.3	3596.1	3483.8	3434.0	3458.9	3469.7
65°	3798.4	4036.5	4033.2	3933.7	3776.7	3693.1	3700.1	3705.2
67.5°	3315.3	3861.5	4210.7	4241.9	4067.0	3936.2	3921.0	3924.1
70°	2347.2	3097.1	3838.0	4324.2	4393.2	4291.7	4258.5	4263.7
71°	1880.7	2657.3	3472.9	4127.1	4388.0	4358.7	4340.2	4353.6
72.5°	1200.4	1957.9	2751.8	3534.2	4035.1	4178.8	4199.8	4208.1
75°	435.9	842.4	1425.7	2042.8	2589.1	2964.9	3171.7	3188.3
77.5°	234.3	301.9	466.5	696.8	875.5	971.3	982.7	987.2
80°	172.3	199.8	228.4	261.1	281.4	285.3	278.2	263.6
82.5°	121.9	137.9	149.4	160.8	169.1	162.1	134.6	102.7
85°	70.8	77.8	84.2	90.0	91.2	86.1	56.8	46.5
87.5°	28.0	30.6	30.0	33.9	32.5	30.0	22.3	19.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)