

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: P271301

Luminaire Tested: **XNV2-AF-02-LED-U-RW-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271301
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-7027
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10706 lumens
Efficiency: N/A
Efficacy: 96.5 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 - G2

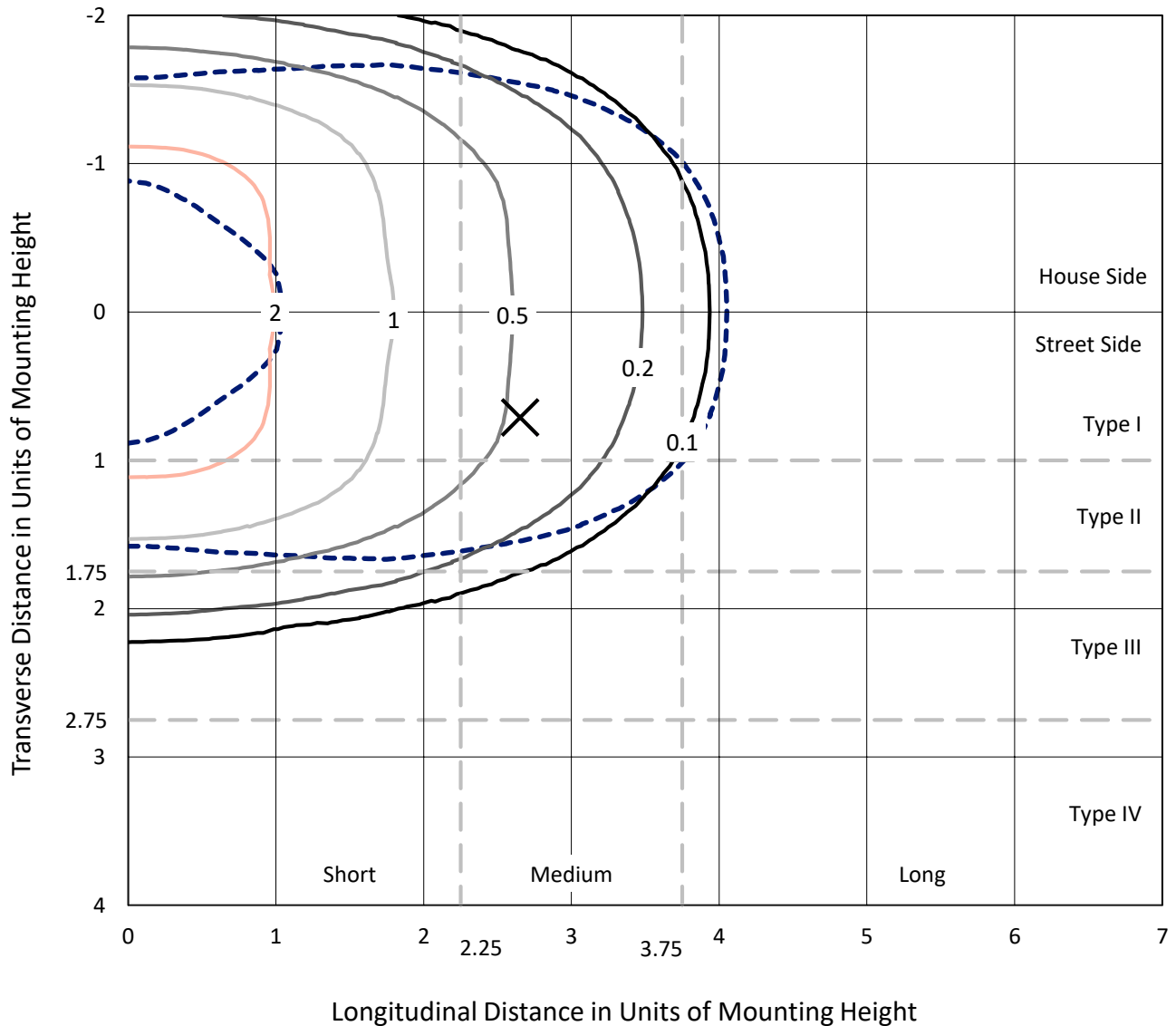
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

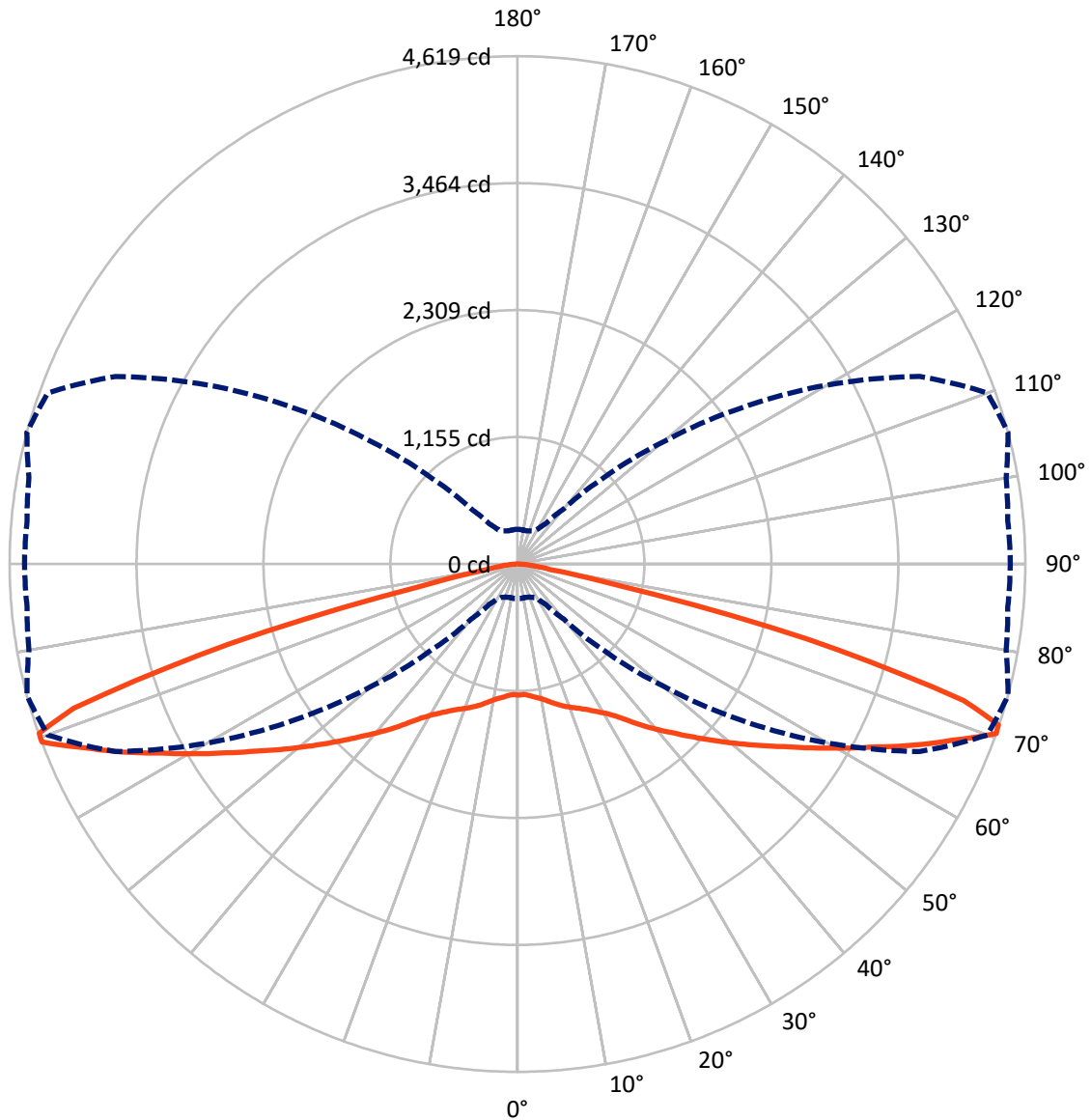
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3 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	5353.0	0.0	5353.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5353.0	0.0	5353.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10706.0	0.0	10706.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.4	1.1
10°-20°	354.7	3.3
20°-30°	666.1	6.2
30°-40°	1173.4	11.0
40°-50°	1944.6	18.2
50°-60°	2705.3	25.3
60°-70°	2553.8	23.9
70°-80°	1090.8	10.2
80°-90°	103.1	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°	10706.0	100.0
0°-180°	10706.0	100.0



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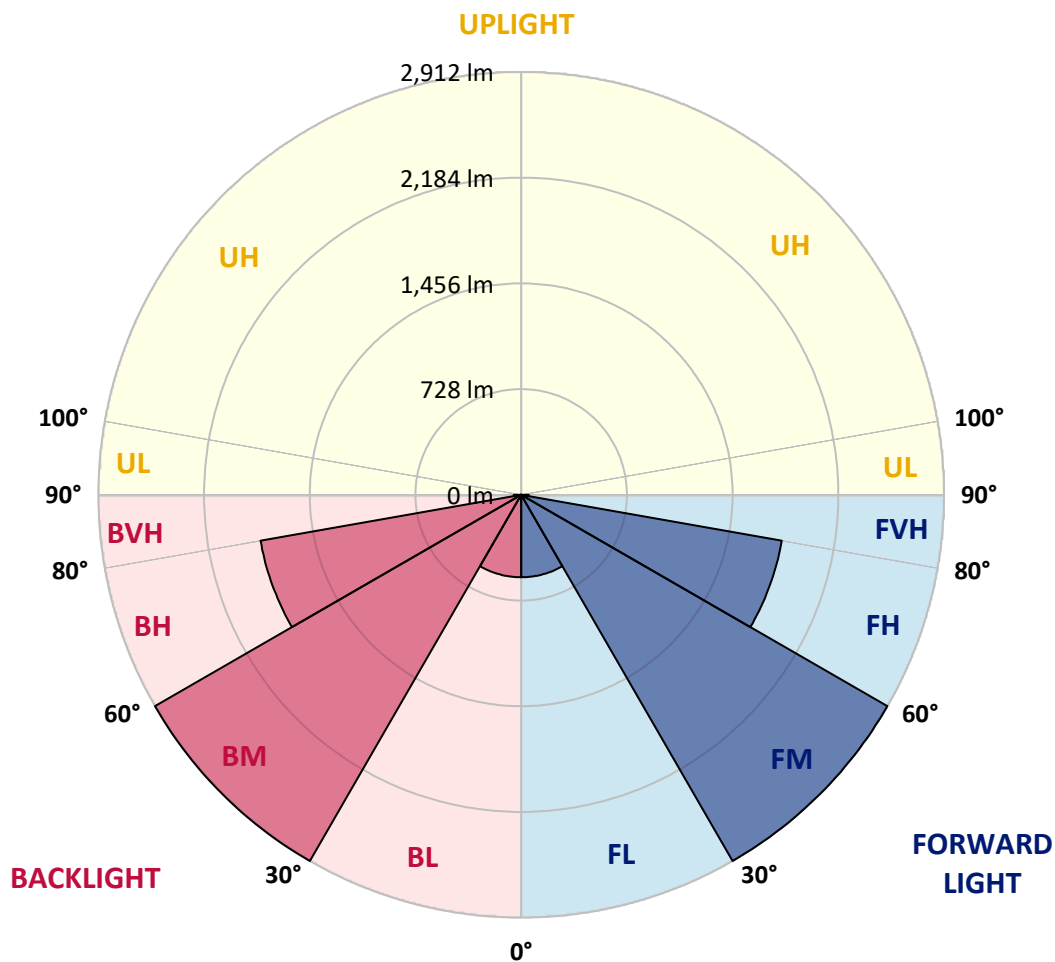
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	567.6	5.3			
FM	(30°-60°)	2911.6	27.2			
FH	(60°-80°)	1822.3	17.0			G2/5000
FVH	(80°-90°)	51.5	0.5			G1/100
BL	(0°-30°)	567.6	5.3	B2/1000		
BM	(30°-60°)	2911.6	27.2	B3/5000		
BH	(60°-80°)	1822.3	17.0	B3/2500		G2/5000
BVH	(80°-90°)	51.5	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-G2

Type V Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1192.2	1192.2	1192.2	1192.2	1192.2	1192.2	1192.2	1192.2	1192.2	1192.2	1192.2
2.5°	1199.5	1198.9	1199.5	1197.6	1198.2	1197.6	1197.6	1194.8	1194.8	1193.6	1191.5
5°	1186.2	1187.5	1187.5	1187.5	1189.5	1189.5	1192.2	1192.9	1194.8	1196.9	1198.2
7.5°	1164.1	1164.7	1166.7	1168.1	1172.1	1177.5	1182.8	1188.8	1194.2	1200.9	1208.3
10°	1145.2	1146.5	1149.9	1153.3	1160.7	1167.3	1176.8	1186.2	1195.6	1207.1	1218.5
12.5°	1135.2	1137.3	1142.6	1147.9	1159.4	1168.1	1180.8	1195.6	1208.3	1219.1	1231.8
15°	1136.5	1137.3	1144.6	1151.9	1168.1	1180.2	1198.2	1215.6	1231.1	1243.3	1257.9
17.5°	1155.9	1157.3	1164.7	1175.4	1190.9	1206.3	1225.7	1243.9	1264.6	1278.7	1296.3
20°	1194.2	1196.3	1204.3	1215.6	1232.5	1248.6	1268.6	1287.5	1309.0	1325.7	1343.1
22.5°	1243.9	1247.2	1256.0	1270.1	1286.8	1306.2	1327.1	1346.5	1366.6	1383.4	1398.2
25°	1310.3	1314.3	1323.7	1337.8	1354.6	1375.3	1396.9	1416.9	1437.7	1450.6	1462.6
27.5°	1399.5	1406.2	1416.3	1427.6	1442.5	1464.5	1484.8	1501.4	1521.5	1535.7	1543.7
30°	1519.7	1529.1	1537.1	1549.1	1559.8	1583.4	1599.4	1612.8	1628.3	1636.4	1638.4
32.5°	1666.5	1675.2	1683.3	1692.0	1706.8	1728.2	1743.7	1751.1	1759.2	1757.9	1750.3
35°	1832.3	1839.0	1843.7	1859.1	1883.2	1897.3	1908.8	1911.5	1912.9	1898.7	1884.6
37.5°	2006.8	2014.8	2018.9	2042.9	2065.7	2081.8	2087.2	2093.3	2089.3	2065.7	2040.3
40°	2195.3	2203.9	2215.9	2236.8	2263.6	2279.1	2285.7	2285.2	2281.8	2254.2	2212.6
42.5°	2380.4	2391.2	2401.2	2437.5	2459.6	2485.7	2489.2	2488.5	2481.1	2449.5	2401.2
45°	2537.4	2550.2	2570.9	2611.3	2646.8	2678.2	2691.1	2695.8	2688.4	2654.9	2599.9
47.5°	2666.9	2675.6	2701.8	2750.8	2796.3	2842.6	2868.2	2886.3	2885.6	2861.5	2803.2
50°	2755.5	2765.5	2797.7	2852.7	2909.8	2964.0	3014.4	3055.3	3074.8	3057.3	3003.0
52.5°	2781.0	2793.6	2835.9	2901.7	2968.1	3041.2	3116.4	3188.9	3232.6	3243.2	3200.9
55°	2673.5	2687.6	2749.4	2840.7	2950.0	3058.0	3172.1	3275.4	3365.3	3406.9	3390.2
57.5°	2360.9	2371.0	2449.5	2567.5	2723.9	2913.8	3105.7	3294.9	3449.2	3557.2	3576.1
60°	1867.1	1880.0	1965.9	2090.5	2268.4	2508.5	2776.9	3086.8	3389.5	3637.1	3759.9
62.5°	1260.1	1268.6	1351.2	1465.2	1659.9	1891.3	2190.5	2583.0	3014.4	3456.6	3802.7
65°	661.5	661.5	717.1	797.1	952.1	1159.4	1465.9	1868.6	2381.8	2934.0	3512.9
67.5°	383.8	383.0	395.9	413.9	462.9	546.8	715.9	1011.8	1497.5	2140.2	2799.1
70°	316.7	314.6	312.6	312.6	320.1	332.8	365.0	446.2	652.8	1103.7	1722.2
71°	302.5	301.2	295.9	293.8	297.2	303.9	318.0	355.5	463.6	752.8	1286.2
72.5°	285.8	282.4	274.4	271.1	271.6	274.4	278.5	293.1	326.1	428.0	733.2
75°	260.2	252.2	242.3	237.5	235.4	234.8	234.8	238.9	246.2	258.4	300.6
77.5°	230.8	219.4	208.6	203.9	200.6	198.5	197.3	194.6	193.2	198.5	214.1
80°	195.2	183.2	174.5	171.8	169.7	165.6	160.3	155.0	151.6	154.2	163.8
82.5°	150.9	138.9	140.2	140.9	137.5	130.9	125.5	119.5	113.4	112.1	116.7
85°	120.2	114.1	110.0	118.8	111.4	103.3	95.9	85.9	71.8	59.1	64.4
87.5°	51.7	52.3	75.2	113.4	99.4	79.8	66.5	53.7	34.2	25.5	26.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1192.2	1192.2	1192.2	1192.2	1192.2	1192.2	1192.2	1192.2
2.5°	1190.9	1190.9	1188.8	1187.5	1187.5	1187.5	1186.2	1186.8
5°	1198.9	1200.2	1201.7	1200.9	1202.9	1204.9	1204.3	1203.5
7.5°	1212.4	1216.3	1220.3	1222.5	1225.1	1227.8	1228.4	1226.5
10°	1225.7	1233.8	1239.8	1245.2	1248.6	1251.2	1253.2	1252.5
12.5°	1242.5	1253.9	1264.6	1275.5	1282.8	1286.8	1290.9	1289.4
15°	1270.1	1282.8	1296.3	1310.3	1321.6	1327.8	1333.8	1332.5
17.5°	1307.7	1319.0	1329.8	1343.9	1358.0	1364.6	1371.4	1370.6
20°	1354.6	1363.3	1369.3	1377.5	1390.8	1398.2	1404.2	1402.3
22.5°	1408.3	1411.0	1411.5	1414.3	1425.0	1433.8	1441.8	1443.8
25°	1466.7	1464.5	1460.6	1458.6	1465.9	1475.3	1485.3	1488.1
27.5°	1539.1	1532.4	1522.3	1514.3	1516.2	1528.3	1539.8	1542.4
30°	1630.3	1615.0	1593.5	1578.1	1575.3	1588.1	1600.2	1604.2
32.5°	1734.3	1713.4	1684.1	1660.4	1650.5	1661.9	1672.6	1678.7
35°	1857.8	1835.0	1799.3	1769.2	1753.1	1760.5	1779.3	1786.0
37.5°	2003.9	1972.5	1933.0	1894.6	1867.8	1869.2	1889.2	1897.3
40°	2165.8	2120.1	2069.8	2022.2	1983.2	1980.6	1998.6	2004.7
42.5°	2334.2	2275.8	2216.7	2154.3	2105.9	2097.4	2120.8	2121.4
45°	2515.3	2440.2	2367.0	2294.5	2244.2	2228.8	2251.6	2254.2
47.5°	2708.5	2614.5	2528.0	2449.5	2395.2	2371.0	2393.2	2397.1
50°	2909.8	2812.5	2711.9	2624.6	2560.9	2531.3	2557.6	2560.2
52.5°	3109.0	3017.0	2917.2	2817.2	2740.0	2706.5	2737.3	2746.7
55°	3309.6	3221.1	3127.1	3027.2	2929.9	2900.4	2934.0	2943.9
57.5°	3518.3	3433.1	3347.9	3247.3	3152.6	3107.6	3143.9	3158.0
60°	3748.4	3673.3	3592.7	3491.4	3398.2	3345.8	3376.6	3392.8
62.5°	3974.6	3959.1	3886.0	3780.5	3662.5	3610.2	3636.3	3647.7
65°	3993.2	4243.6	4240.2	4135.5	3970.5	3882.6	3890.0	3895.3
67.5°	3485.5	4059.7	4426.7	4459.5	4275.8	4138.2	4122.1	4125.5
70°	2467.6	3255.9	4034.8	4546.1	4618.5	4511.8	4477.1	4482.5
71°	1977.2	2793.6	3651.2	4338.9	4613.2	4582.3	4562.9	4577.0
72.5°	1261.9	2058.3	2893.0	3715.5	4242.2	4393.2	4415.3	4424.1
75°	458.2	885.5	1498.8	2147.6	2722.0	3117.1	3334.5	3351.8
77.5°	246.2	317.3	490.5	732.7	920.6	1021.2	1033.2	1037.9
80°	181.2	210.1	240.1	274.4	295.9	299.9	292.5	277.0
82.5°	128.2	144.9	157.1	169.2	177.8	170.4	141.6	108.1
85°	74.5	81.8	88.6	94.6	95.9	90.5	59.6	49.0
87.5°	29.6	32.2	31.5	35.6	34.2	31.5	23.4	20.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)