

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: P198659

Luminaire Tested: **XNV2-AF-02-LED-U-5WQ-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24131)
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-5WQ-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8455.7 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

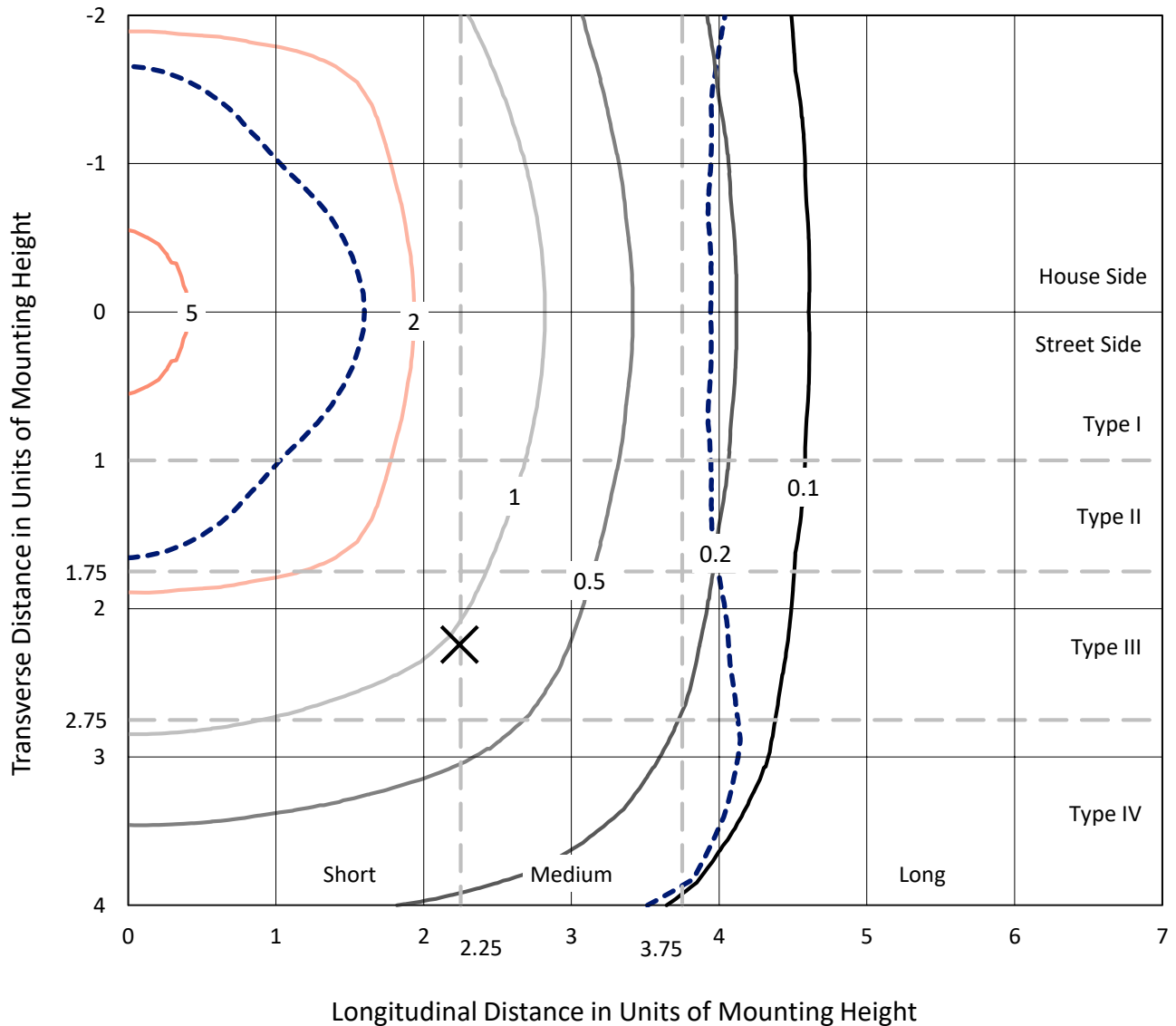
Input Watts (W): 66
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

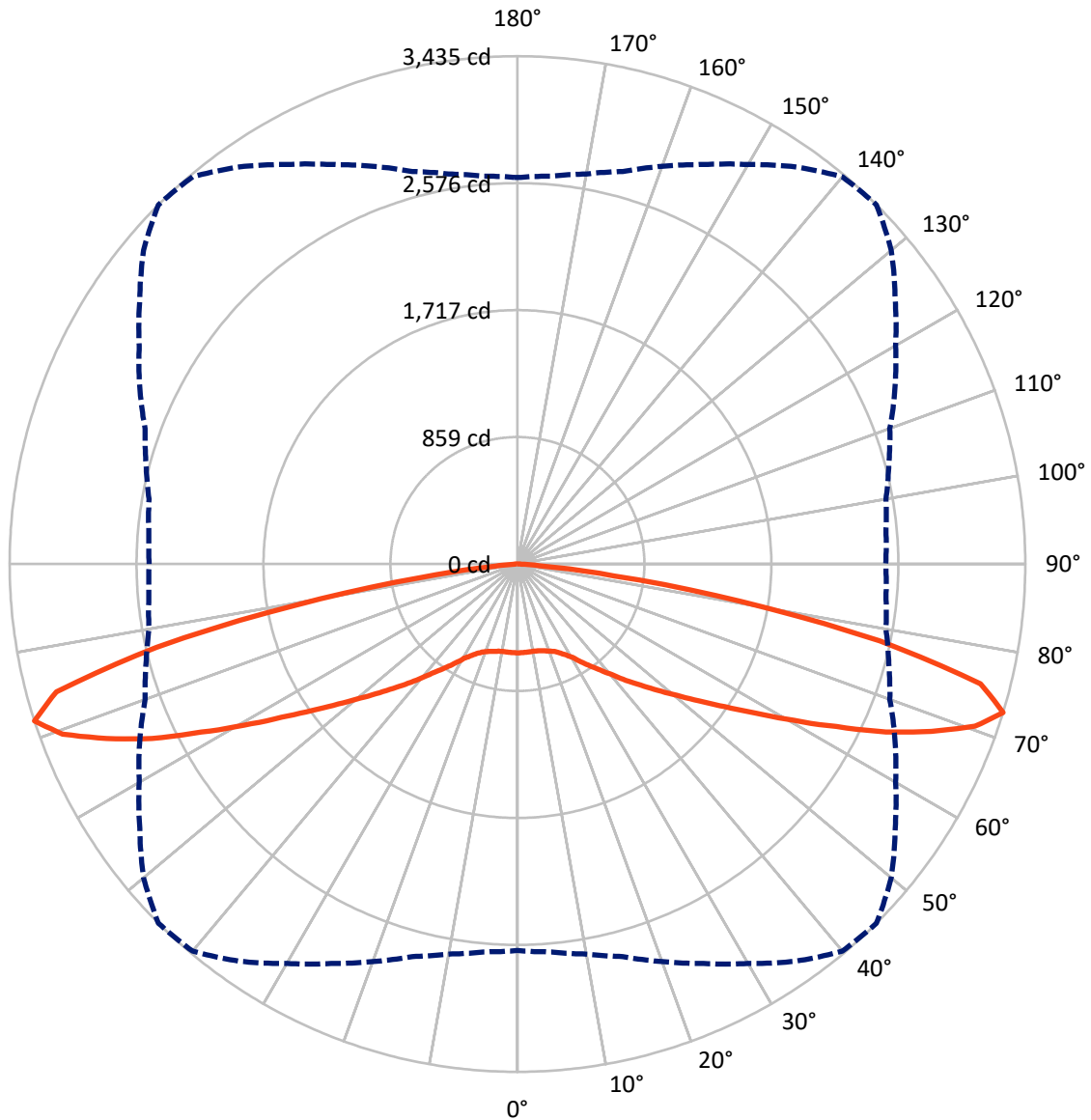
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical



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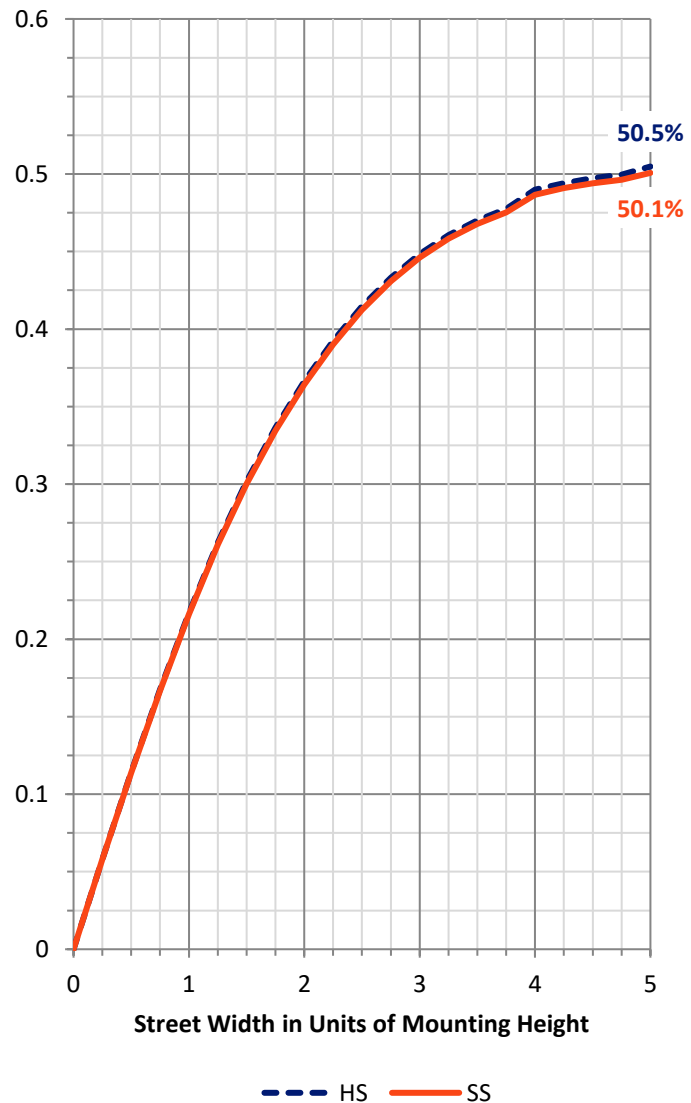
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4227.9	0.0	4227.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4227.9	0.0	4227.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	8455.7	0.0	8455.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.4	0.7
10°-20°	173.6	2.1
20°-30°	313.5	3.7
30°-40°	534.7	6.3
40°-50°	910.4	10.8
50°-60°	1465.1	17.3
60°-70°	2436.5	28.8
70°-80°	2357.0	27.9
80°-90°	207.4	2.5
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°	8455.7	100.0
0°-180°	8455.7	100.0



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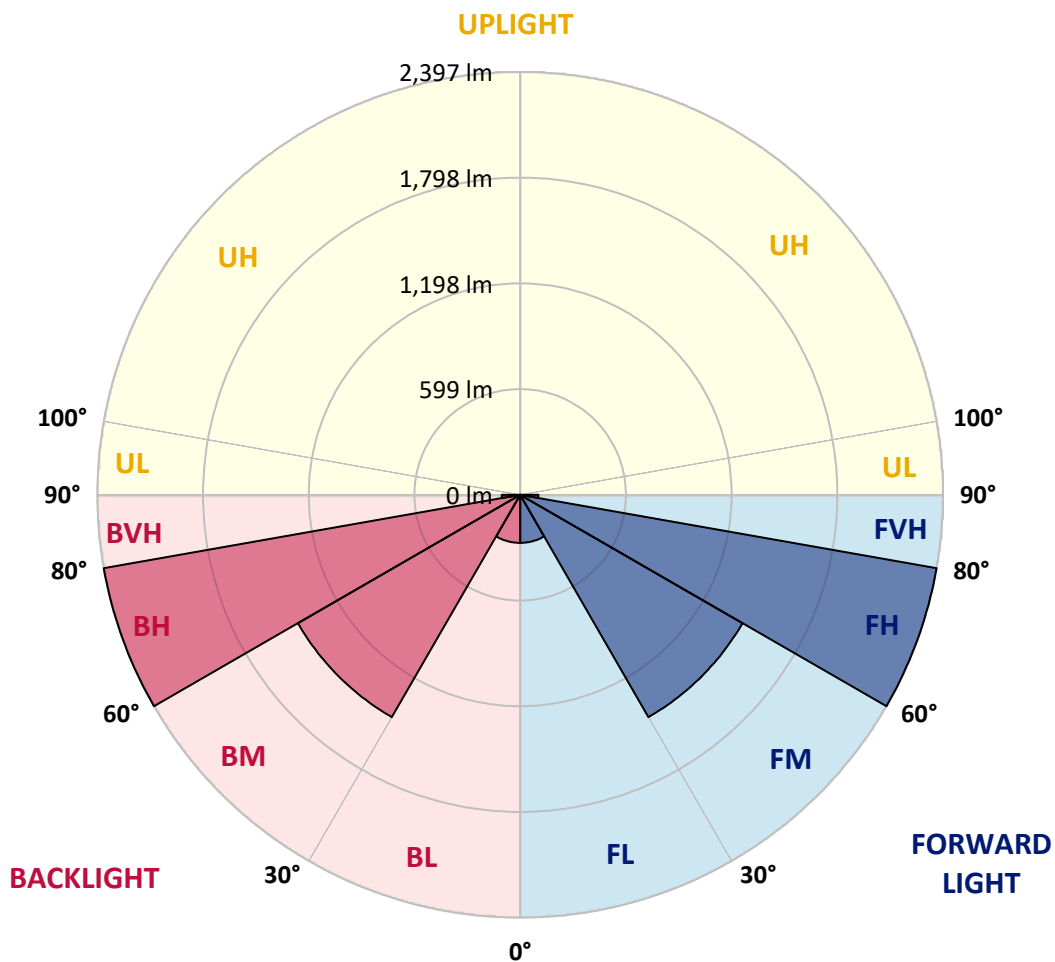
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	272.3	3.2			
FM (30°-60°)	1455.1	17.2			
FH (60°-80°)	2396.8	28.3			G2/5000
FVH (80°-90°)	103.7	1.2			G2/225
BL (0°-30°)	272.3	3.2	B1/500		
BM (30°-60°)	1455.1	17.2	B2/2500		
BH (60°-80°)	2396.8	28.3	B3/2500		G2/5000
BVH (80°-90°)	103.7	1.2			G2/225
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2
2.5°	605.8	605.8	606.3	605.8	604.8	604.3	602.7	601.7	600.6	600.1	599.0
5°	606.3	606.3	606.8	606.3	605.3	604.3	603.2	601.7	600.6	599.6	599.0
7.5°	608.5	609.0	609.5	609.0	606.8	605.8	604.3	602.7	600.6	599.6	598.5
10°	612.5	612.5	612.5	612.0	610.5	608.5	606.3	604.8	602.2	599.6	598.0
12.5°	615.7	616.2	616.2	615.2	613.2	610.5	608.5	606.8	604.8	602.7	601.2
15°	620.4	620.4	619.9	617.8	614.7	612.5	611.5	611.0	610.5	609.5	607.9
17.5°	629.7	629.2	627.7	624.5	620.9	619.4	618.3	618.3	618.3	617.8	616.7
20°	643.3	643.3	641.2	636.0	632.9	631.4	629.7	629.7	629.7	628.2	626.7
22.5°	665.1	665.6	662.6	656.3	652.1	649.1	646.9	645.4	643.8	642.8	640.2
25°	694.8	694.3	690.7	682.8	679.8	676.6	672.5	669.8	667.8	666.1	663.1
27.5°	726.1	725.6	721.4	714.6	712.5	707.9	704.7	701.0	698.5	695.9	692.7
30°	766.1	763.5	760.4	755.2	754.1	750.5	746.3	741.1	736.9	732.8	729.2
32.5°	802.0	802.0	797.4	794.7	796.9	795.2	795.8	792.7	790.0	788.5	784.9
35°	852.0	852.0	850.0	846.8	847.3	843.6	843.1	843.6	845.8	845.8	841.6
37.5°	918.6	919.6	912.9	911.9	909.3	904.1	901.4	902.4	907.2	909.8	904.1
40°	1001.4	1003.4	1001.4	994.6	991.4	982.6	977.4	977.4	981.1	983.7	981.6
42.5°	1083.1	1086.8	1083.1	1077.9	1075.3	1068.5	1065.9	1068.0	1072.7	1075.8	1072.7
45°	1174.1	1176.8	1172.1	1165.9	1162.7	1159.1	1157.5	1159.1	1164.3	1167.4	1166.4
47.5°	1263.7	1267.3	1261.6	1259.0	1259.0	1255.4	1259.6	1263.7	1268.4	1275.6	1272.6
50°	1351.1	1355.8	1352.1	1352.6	1356.8	1363.6	1371.5	1379.8	1388.0	1395.9	1396.9
52.5°	1429.2	1436.5	1437.0	1446.4	1459.3	1469.8	1491.7	1509.9	1529.6	1536.4	1533.3
55°	1511.4	1521.3	1534.3	1549.0	1569.7	1591.1	1628.0	1660.8	1686.8	1703.0	1700.3
57.5°	1629.0	1639.0	1652.5	1676.4	1707.6	1736.8	1787.3	1838.2	1877.8	1902.3	1890.3
60°	1781.6	1792.0	1809.7	1835.2	1875.8	1915.3	1984.5	2057.9	2119.3	2147.5	2125.6
62.5°	1983.5	1993.4	2004.9	2038.6	2084.0	2134.9	2221.8	2316.1	2394.1	2421.2	2390.5
65°	2271.4	2283.3	2286.9	2314.5	2358.7	2406.1	2499.8	2606.0	2695.0	2739.3	2677.8
67.5°	2595.5	2600.2	2614.9	2647.1	2692.4	2735.1	2808.9	2909.4	2994.8	3019.2	2953.7
70°	2785.5	2794.9	2820.4	2865.2	2919.3	2986.4	3067.1	3175.3	3272.2	3283.6	3200.3
72.5°	2613.7	2633.1	2678.3	2748.1	2861.5	2980.7	3119.7	3279.5	3418.4	3434.6	3300.8
75°	2096.4	2118.3	2172.4	2249.0	2383.2	2560.1	2761.0	3001.0	3209.2	3235.7	3058.7
77.5°	1117.5	1144.5	1223.1	1326.2	1517.6	1751.9	1993.9	2267.7	2444.6	2504.5	2376.9
80°	281.6	296.1	334.1	394.6	524.1	713.0	921.8	1216.3	1435.9	1529.1	1435.9
82.5°	109.3	120.2	130.6	137.9	150.4	176.5	243.6	397.1	535.0	658.9	570.4
85°	42.1	44.8	64.5	73.3	73.3	80.7	92.7	109.3	135.3	147.8	123.9
87.5°	16.7	18.2	22.4	34.4	35.4	31.2	33.3	37.4	28.6	23.9	27.1
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°	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2
2.5°	598.5	598.0	597.0	597.5	597.0	597.0	597.0	597.0
5°	598.0	598.0	597.0	597.0	597.0	597.5	597.0	597.0
7.5°	597.5	597.0	596.0	595.5	595.5	594.8	594.8	594.8
10°	596.5	595.5	594.3	593.8	593.8	592.8	592.8	592.8
12.5°	599.0	597.5	596.5	596.0	596.0	596.0	596.5	596.5
15°	606.3	603.2	601.7	601.2	601.7	602.7	603.2	603.7
17.5°	614.2	611.0	608.5	607.4	607.9	609.5	611.0	612.0
20°	624.0	621.4	618.3	617.2	617.2	619.4	620.4	622.0
22.5°	638.1	636.0	633.4	631.9	630.9	633.4	634.9	636.0
25°	660.5	658.4	656.3	654.8	654.2	656.8	657.9	658.4
27.5°	690.2	688.0	687.0	686.5	685.0	686.0	687.5	687.0
30°	728.6	730.2	728.6	728.6	726.1	727.1	726.1	725.0
32.5°	780.2	778.6	774.0	770.8	767.2	767.2	765.6	764.0
35°	831.7	826.5	823.9	825.4	823.9	824.9	822.4	819.7
37.5°	892.6	889.5	888.9	893.6	892.6	893.6	893.6	890.0
40°	973.2	971.2	974.9	982.6	985.7	985.2	986.3	981.6
42.5°	1065.9	1062.2	1063.9	1070.6	1074.2	1075.3	1074.7	1070.6
45°	1158.6	1159.6	1159.6	1166.9	1170.6	1172.6	1168.9	1167.4
47.5°	1263.1	1264.8	1261.1	1265.8	1266.8	1270.5	1267.3	1264.8
50°	1384.0	1378.2	1369.8	1371.5	1371.5	1370.3	1366.8	1363.6
52.5°	1518.7	1505.7	1490.1	1484.9	1479.2	1473.5	1466.2	1460.5
55°	1672.2	1649.9	1621.8	1608.8	1597.8	1584.9	1568.2	1562.5
57.5°	1850.2	1811.7	1774.3	1750.9	1722.8	1705.6	1684.2	1683.2
60°	2061.6	2009.5	1943.4	1908.5	1880.5	1860.1	1844.0	1837.7
62.5°	2305.6	2216.1	2144.8	2107.4	2074.5	2062.1	2041.8	2044.4
65°	2556.0	2464.9	2395.8	2365.5	2334.8	2326.5	2307.8	2314.5
67.5°	2827.1	2752.2	2676.2	2648.1	2620.0	2611.7	2592.5	2598.2
70°	3070.2	2974.9	2888.6	2833.4	2785.5	2747.0	2722.6	2712.7
72.5°	3118.7	2953.7	2817.8	2679.9	2600.2	2530.5	2501.8	2491.0
75°	2802.2	2546.1	2352.5	2190.6	2101.1	1999.7	1988.7	1973.6
77.5°	2179.7	1888.3	1654.0	1445.8	1325.6	1201.8	1159.1	1126.8
80°	1300.2	999.3	774.5	542.9	442.9	356.5	335.2	312.8
82.5°	465.3	298.2	200.9	156.6	140.0	129.1	120.7	109.9
85°	112.4	94.7	89.5	81.2	80.2	68.2	48.4	43.2
87.5°	35.9	32.8	33.3	31.7	33.3	25.0	20.3	18.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)