

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: P198979

Luminaire Tested: **XNV2-AF-02-LED-U-5WQ-7060-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198979  
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-7060-600  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 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: 8266 lumens  
Efficiency: N/A  
Efficacy: 125.2 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 (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

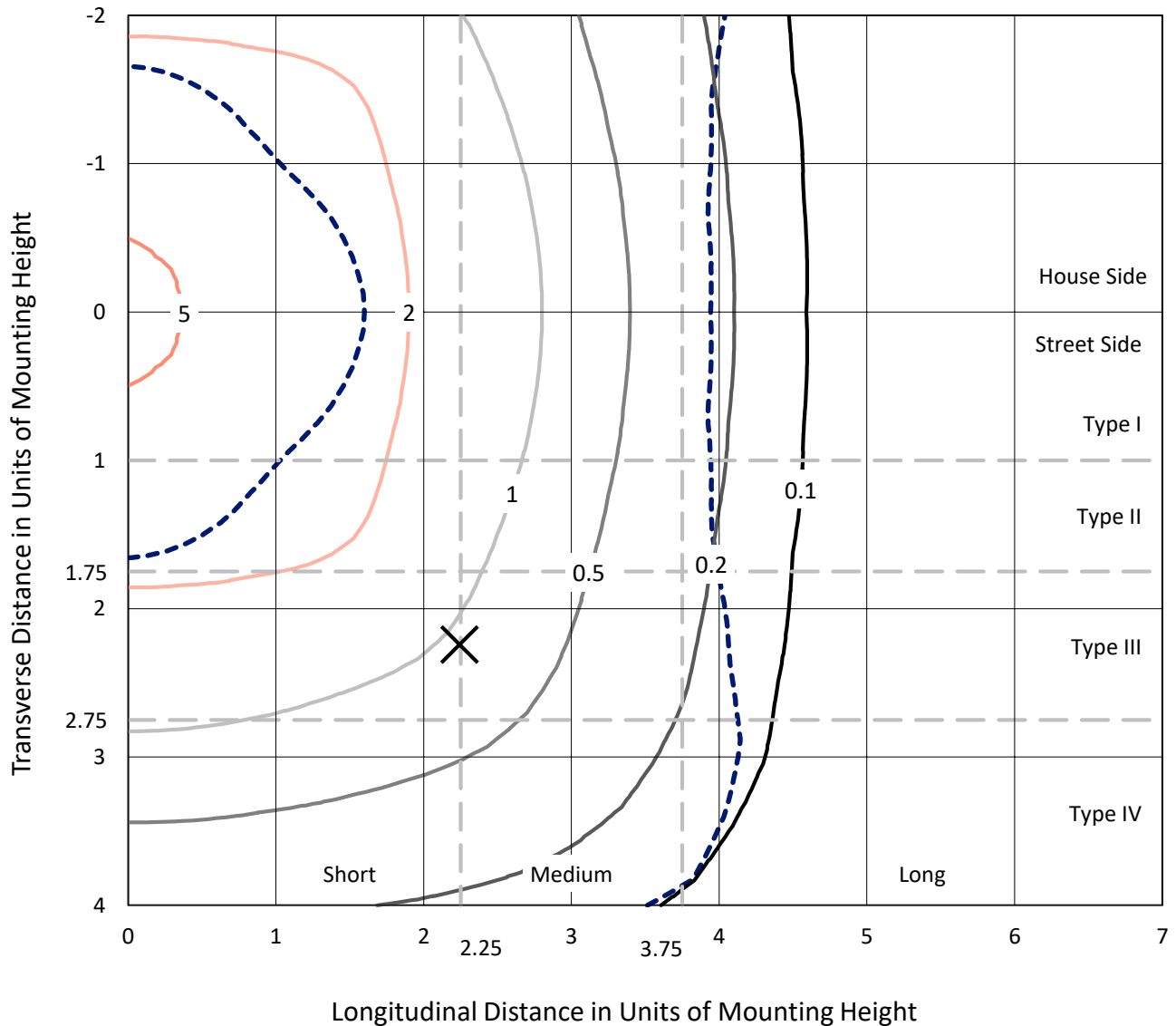


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

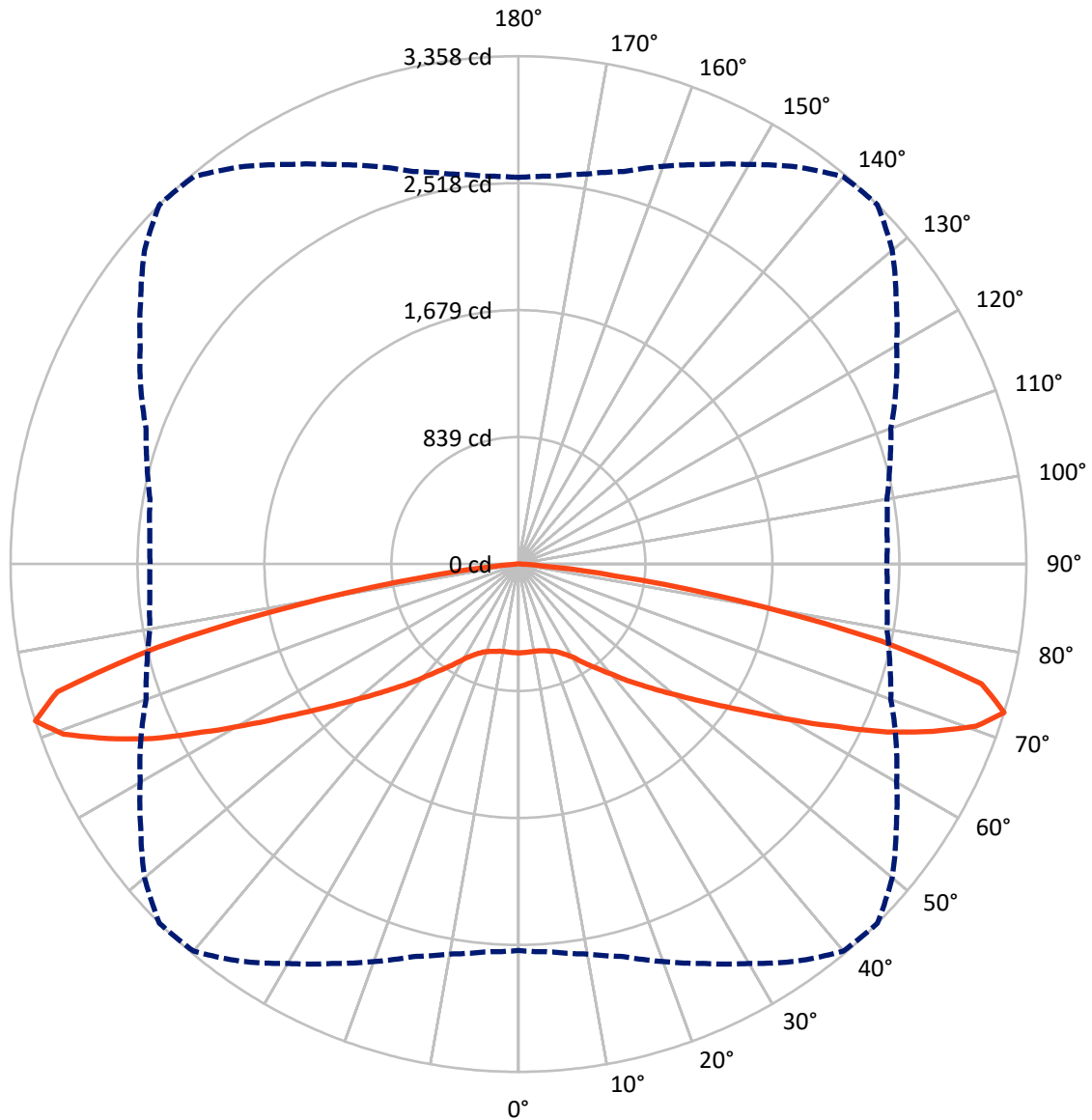


Based on 10 foot mounting height. Maximum calculated value = 5.9 fc  
 Type V - Short - Semi-Cutoff

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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
<b>House Side</b>	Lumens	4133.0	0.0	4133.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4133.0	0.0	4133.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8266.0	0.0	8266.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.1	0.7
10°-20°	169.8	2.1
20°-30°	306.5	3.7
30°-40°	522.7	6.3
40°-50°	890.0	10.8
50°-60°	1432.2	17.3
60°-70°	2381.8	28.8
70°-80°	2304.2	27.9
80°-90°	202.8	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°	8266.0	100.0
0°-180°	8266.0	100.0



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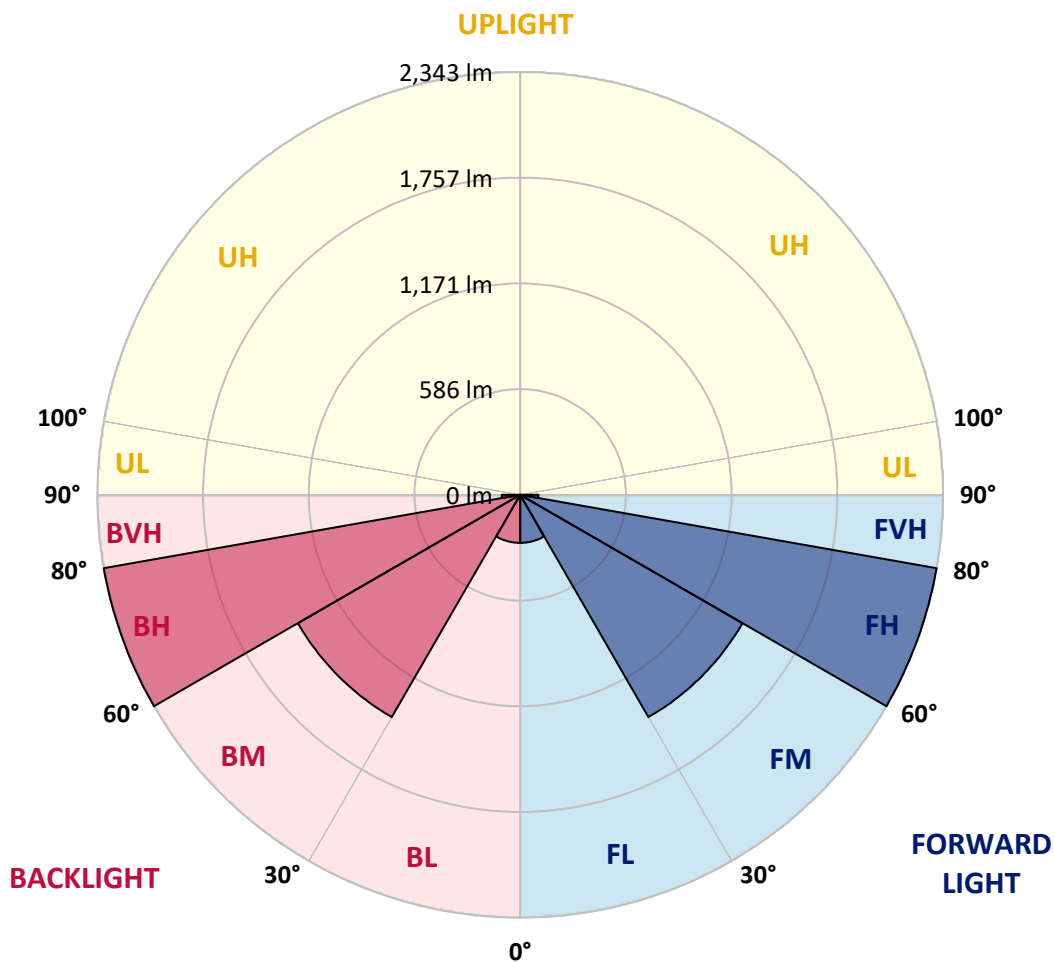
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	266.1	3.2			
FM	(30°-60°)	1422.5	17.2			
FH	(60°-80°)	2343.0	28.3			G2/5000
FVH	(80°-90°)	101.4	1.2			G2/225
BL	(0°-30°)	266.1	3.2	B1/500		
BM	(30°-60°)	1422.5	17.2	B2/2500		
BH	(60°-80°)	2343.0	28.3	B3/2500		G2/5000
BVH	(80°-90°)	101.4	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°	587.7	587.7	587.7	587.7	587.7	587.7	587.7	587.7	587.7	587.7	587.7
2.5°	592.2	592.2	592.7	592.2	591.2	590.7	589.2	588.2	587.1	586.6	585.6
5°	592.7	592.7	593.2	592.7	591.7	590.7	589.7	588.2	587.1	586.1	585.6
7.5°	594.8	595.3	595.8	595.3	593.2	592.2	590.7	589.2	587.1	586.1	585.1
10°	598.8	598.8	598.8	598.3	596.8	594.8	592.7	591.2	588.7	586.1	584.6
12.5°	601.9	602.4	602.4	601.4	599.4	596.8	594.8	593.2	591.2	589.2	587.7
15°	606.5	606.5	606.0	603.9	600.9	598.8	597.8	597.3	596.8	595.8	594.3
17.5°	615.6	615.1	613.6	610.5	607.0	605.5	604.4	604.4	604.4	603.9	602.9
20°	628.9	628.9	626.8	621.7	618.7	617.2	615.6	615.6	615.6	614.1	612.6
22.5°	650.2	650.7	647.7	641.6	637.5	634.5	632.4	630.9	629.4	628.4	625.8
25°	679.2	678.7	675.2	667.5	664.5	661.4	657.4	654.8	652.8	651.2	648.2
27.5°	709.8	709.3	705.2	698.6	696.5	692.0	688.9	685.3	682.8	680.3	677.2
30°	748.9	746.4	743.3	738.3	737.2	733.7	729.6	724.5	720.4	716.4	712.8
32.5°	784.0	784.0	779.5	776.9	779.0	777.4	777.9	774.9	772.3	770.8	767.3
35°	832.9	832.9	830.9	827.8	828.3	824.7	824.2	824.7	826.8	826.8	822.7
37.5°	898.0	899.0	892.4	891.4	888.9	883.8	881.2	882.2	886.8	889.4	883.8
40°	978.9	980.9	978.9	972.3	969.2	960.6	955.5	955.5	959.1	961.6	959.6
42.5°	1058.8	1062.4	1058.8	1053.7	1051.2	1044.5	1042.0	1044.0	1048.6	1051.7	1048.6
45°	1147.8	1150.4	1145.8	1139.7	1136.6	1133.1	1131.5	1133.1	1138.2	1141.2	1140.2
47.5°	1235.3	1238.9	1233.3	1230.8	1230.8	1227.2	1231.3	1235.3	1239.9	1247.0	1244.0
50°	1320.8	1325.4	1321.8	1322.3	1326.4	1333.0	1340.7	1348.8	1356.9	1364.6	1365.6
52.5°	1397.1	1404.3	1404.8	1413.9	1426.6	1436.8	1458.2	1476.0	1495.3	1501.9	1498.9
55°	1477.5	1487.2	1499.9	1514.2	1534.5	1555.4	1591.5	1623.5	1649.0	1664.8	1662.2
57.5°	1592.5	1602.2	1615.4	1638.8	1669.3	1697.8	1747.2	1797.0	1835.7	1859.6	1847.9
60°	1741.6	1751.8	1769.1	1794.0	1833.7	1872.3	1940.0	2011.7	2071.8	2099.3	2077.9
62.5°	1939.0	1948.7	1959.9	1992.9	2037.2	2087.0	2172.0	2264.1	2340.4	2366.9	2336.9
65°	2220.4	2232.1	2235.6	2262.6	2305.8	2352.1	2443.7	2547.5	2634.5	2677.8	2617.7
67.5°	2537.3	2541.9	2556.2	2587.7	2632.0	2673.7	2745.9	2844.1	2927.6	2951.5	2887.4
70°	2723.0	2732.2	2757.1	2800.9	2853.8	2919.4	2998.3	3104.1	3198.8	3209.9	3128.5
72.5°	2555.1	2574.0	2618.2	2686.4	2797.3	2913.8	3049.7	3205.9	3341.7	3357.5	3226.7
75°	2049.4	2070.8	2123.7	2198.5	2329.7	2502.7	2699.1	2933.7	3137.2	3163.1	2990.1
77.5°	1092.4	1118.8	1195.7	1296.4	1483.6	1712.6	1949.2	2216.8	2389.8	2448.3	2323.6
80°	275.3	289.5	326.6	385.7	512.3	697.0	901.1	1189.0	1403.7	1494.8	1403.7
82.5°	106.8	117.5	127.7	134.8	147.0	172.5	238.1	388.2	523.0	644.1	557.6
85°	41.2	43.8	63.1	71.7	71.7	78.9	90.6	106.8	132.3	144.5	121.1
87.5°	16.3	17.8	21.9	33.6	34.6	30.5	32.6	36.6	28.0	23.4	26.5
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	587.7	587.7	587.7	587.7	587.7	587.7	587.7	587.7
2.5°	585.1	584.6	583.6	584.1	583.6	583.6	583.6	583.6
5°	584.6	584.6	583.6	583.6	583.6	584.1	583.6	583.6
7.5°	584.1	583.6	582.6	582.1	582.1	581.5	581.5	581.5
10°	583.1	582.1	581.0	580.5	580.5	579.5	579.5	579.5
12.5°	585.6	584.1	583.1	582.6	582.6	582.6	583.1	583.1
15°	592.7	589.7	588.2	587.7	588.2	589.2	589.7	590.2
17.5°	600.4	597.3	594.8	593.8	594.3	595.8	597.3	598.3
20°	610.0	607.5	604.4	603.4	603.4	605.5	606.5	608.0
22.5°	623.8	621.7	619.2	617.7	616.7	619.2	620.7	621.7
25°	645.7	643.6	641.6	640.1	639.5	642.1	643.1	643.6
27.5°	674.7	672.6	671.6	671.1	669.6	670.6	672.1	671.6
30°	712.3	713.8	712.3	712.3	709.8	710.8	709.8	708.7
32.5°	762.7	761.1	756.6	753.5	750.0	750.0	748.4	746.9
35°	813.0	808.0	805.4	806.9	805.4	806.4	803.9	801.3
37.5°	872.6	869.5	869.0	873.6	872.6	873.6	873.6	870.0
40°	951.4	949.4	953.0	960.6	963.6	963.1	964.2	959.6
42.5°	1042.0	1038.4	1040.0	1046.6	1050.1	1051.2	1050.6	1046.6
45°	1132.6	1133.6	1133.6	1140.7	1144.3	1146.3	1142.7	1141.2
47.5°	1234.8	1236.4	1232.8	1237.4	1238.4	1242.0	1238.9	1236.4
50°	1352.9	1347.3	1339.1	1340.7	1340.7	1339.6	1336.1	1333.0
52.5°	1484.6	1471.9	1456.7	1451.6	1446.0	1440.4	1433.3	1427.7
55°	1634.7	1612.9	1585.4	1572.7	1562.0	1549.3	1533.0	1527.4
57.5°	1808.7	1771.1	1734.5	1711.6	1684.1	1667.3	1646.4	1645.4
60°	2015.3	1964.4	1899.8	1865.7	1838.3	1818.4	1802.6	1796.5
62.5°	2253.9	2166.4	2096.7	2060.1	2028.0	2015.8	1996.0	1998.5
65°	2498.7	2409.6	2342.0	2312.4	2282.4	2274.3	2256.0	2262.6
67.5°	2763.7	2690.5	2616.2	2588.7	2561.2	2553.1	2534.3	2539.9
70°	3001.3	2908.2	2823.8	2769.8	2723.0	2685.4	2661.5	2651.8
72.5°	3048.7	2887.4	2754.6	2619.8	2541.9	2473.7	2445.7	2435.1
75°	2739.3	2489.0	2299.7	2141.5	2054.0	1954.8	1944.1	1929.3
77.5°	2130.8	1845.9	1616.9	1413.4	1295.9	1174.8	1133.1	1101.5
80°	1271.0	976.9	757.1	530.7	433.0	348.5	327.7	305.8
82.5°	454.9	291.5	196.4	153.1	136.9	126.2	118.0	107.4
85°	109.9	92.6	87.5	79.4	78.4	66.7	47.3	42.2
87.5°	35.1	32.1	32.6	31.0	32.6	24.4	19.8	17.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)