

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: P198499

Luminaire Tested: **XNV2-AF-02-LED-U-5WQ-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198499
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-7030-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 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: 7317 lumens
Efficiency: N/A
Efficacy: 110.9 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

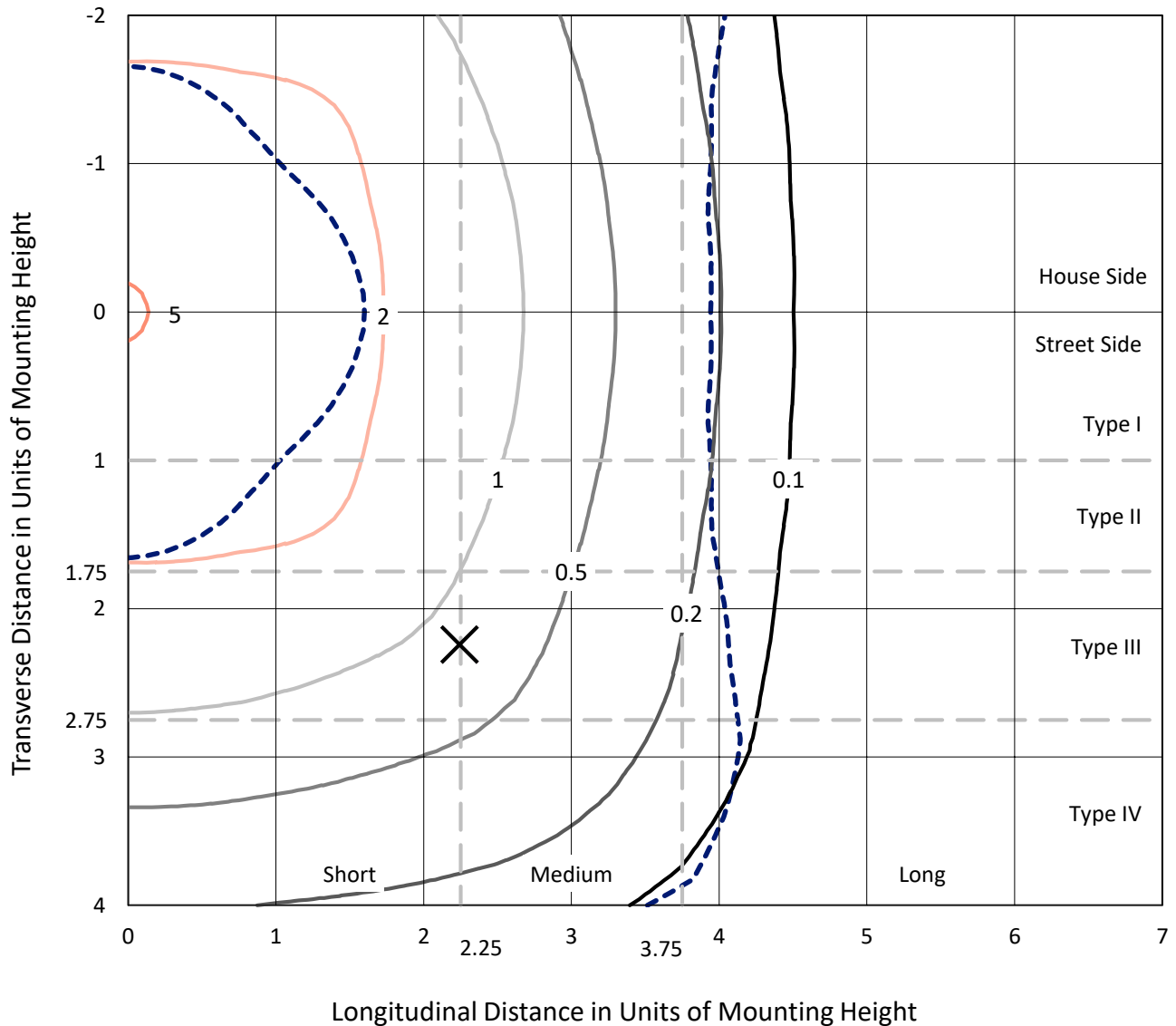


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

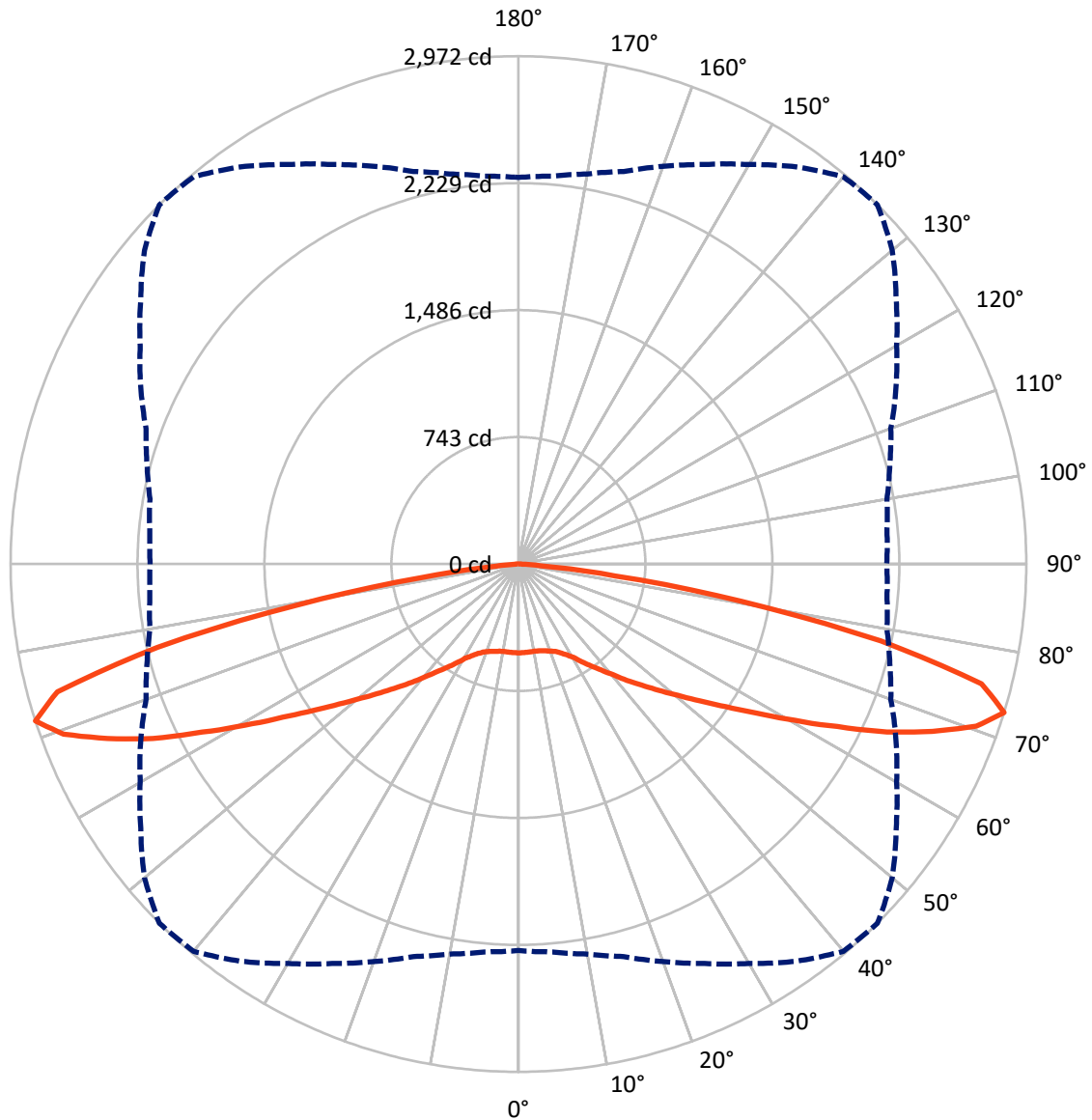


Based on 10 foot mounting height. Maximum calculated value = 5.2 fc
 Type V - Short - Semi-Cutoff

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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	3658.5	0.0	3658.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3658.5	0.0	3658.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7317.0	0.0	7317.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.7	0.7
10°-20°	150.3	2.1
20°-30°	271.3	3.7
30°-40°	462.7	6.3
40°-50°	787.8	10.8
50°-60°	1267.8	17.3
60°-70°	2108.4	28.8
70°-80°	2039.6	27.9
80°-90°	179.5	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°	7317.0	100.0
0°-180°	7317.0	100.0



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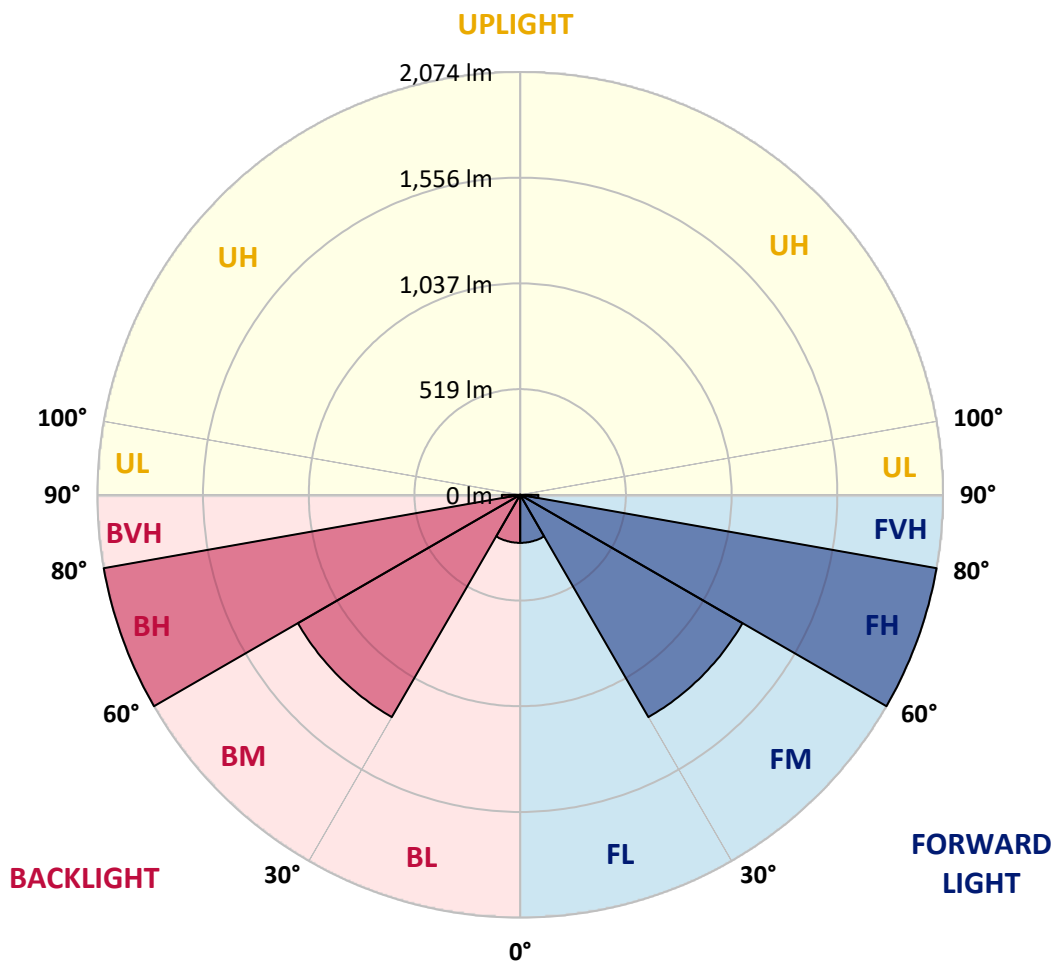
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	235.6	3.2			
FM (30°-60°)	1259.1	17.2			
FH (60°-80°)	2074.0	28.3			G2/5000
FVH (80°-90°)	89.8	1.2			G1/100
BL (0°-30°)	235.6	3.2	B1/500		
BM (30°-60°)	1259.1	17.2	B2/2500		
BH (60°-80°)	2074.0	28.3	B3/2500		G2/5000
BVH (80°-90°)	89.8	1.2			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	520.2	520.2	520.2	520.2	520.2	520.2	520.2	520.2	520.2	520.2	520.2
2.5°	524.2	524.2	524.7	524.2	523.3	522.9	521.5	520.6	519.7	519.3	518.4
5°	524.7	524.7	525.1	524.7	523.8	522.9	522.0	520.6	519.7	518.8	518.4
7.5°	526.5	526.9	527.4	526.9	525.1	524.2	522.9	521.5	519.7	518.8	517.9
10°	530.1	530.1	530.1	529.6	528.3	526.5	524.7	523.3	521.1	518.8	517.5
12.5°	532.8	533.2	533.2	532.3	530.5	528.3	526.5	525.1	523.3	521.5	520.2
15°	536.8	536.8	536.4	534.6	531.9	530.1	529.2	528.7	528.3	527.4	526.0
17.5°	545.0	544.5	543.2	540.5	537.3	535.9	535.0	535.0	535.0	534.6	533.7
20°	556.7	556.7	554.9	550.4	547.7	546.3	545.0	545.0	545.0	543.6	542.3
22.5°	575.6	576.0	573.3	567.9	564.3	561.6	559.8	558.5	557.1	556.2	554.0
25°	601.3	600.8	597.6	590.9	588.2	585.5	581.9	579.6	577.8	576.5	573.8
27.5°	628.3	627.8	624.2	618.4	616.6	612.5	609.8	606.7	604.4	602.2	599.4
30°	663.0	660.7	658.0	653.5	652.6	649.4	645.8	641.3	637.7	634.1	631.0
32.5°	694.0	694.0	690.0	687.7	689.5	688.2	688.6	685.9	683.7	682.3	679.2
35°	737.3	737.3	735.5	732.8	733.2	730.1	729.6	730.1	731.9	731.9	728.3
37.5°	794.9	795.8	790.0	789.1	786.8	782.3	780.1	781.0	785.0	787.3	782.3
40°	866.5	868.3	866.5	860.7	858.0	850.3	845.8	845.8	849.0	851.2	849.4
42.5°	937.2	940.4	937.2	932.7	930.5	924.6	922.4	924.2	928.2	930.9	928.2
45°	1016.0	1018.3	1014.2	1008.8	1006.1	1003.0	1001.6	1003.0	1007.5	1010.2	1009.3
47.5°	1093.5	1096.7	1091.7	1089.5	1089.5	1086.3	1089.9	1093.5	1097.6	1103.9	1101.2
50°	1169.2	1173.2	1170.1	1170.5	1174.1	1180.0	1186.7	1193.9	1201.2	1207.9	1208.8
52.5°	1236.7	1243.0	1243.5	1251.6	1262.9	1271.9	1290.8	1306.5	1323.7	1329.5	1326.8
55°	1307.9	1316.4	1327.7	1340.3	1358.3	1376.8	1408.8	1437.1	1459.7	1473.6	1471.4
57.5°	1409.7	1418.2	1429.9	1450.7	1477.7	1502.9	1546.6	1590.7	1625.0	1646.1	1635.8
60°	1541.6	1550.6	1566.0	1588.0	1623.2	1657.4	1717.3	1780.8	1833.9	1858.2	1839.3
62.5°	1716.4	1724.9	1734.8	1764.1	1803.3	1847.4	1922.7	2004.2	2071.7	2095.1	2068.6
65°	1965.4	1975.8	1979.0	2002.8	2041.1	2082.1	2163.2	2255.0	2332.0	2370.3	2317.2
67.5°	2246.0	2250.1	2262.7	2290.6	2329.8	2366.7	2430.7	2517.6	2591.5	2612.6	2555.9
70°	2410.4	2418.5	2440.6	2479.3	2526.2	2584.3	2654.1	2747.7	2831.5	2841.4	2769.4
72.5°	2261.8	2278.4	2317.6	2378.0	2476.2	2579.3	2699.6	2837.8	2958.1	2972.0	2856.3
75°	1814.1	1833.0	1879.9	1946.1	2062.3	2215.4	2389.2	2596.9	2777.0	2800.0	2646.9
77.5°	967.0	990.4	1058.4	1147.6	1313.3	1516.0	1725.4	1962.3	2115.4	2167.2	2056.9
80°	243.7	256.3	289.1	341.4	453.5	617.0	797.6	1052.5	1242.6	1323.2	1242.6
82.5°	94.6	104.0	113.0	119.3	130.2	152.7	210.8	343.6	463.0	570.2	493.6
85°	36.5	38.7	55.8	63.5	63.5	69.8	80.2	94.6	117.1	127.9	107.2
87.5°	14.4	15.8	19.4	29.7	30.6	27.0	28.8	32.4	24.8	20.7	23.4
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°	520.2	520.2	520.2	520.2	520.2	520.2	520.2	520.2
2.5°	517.9	517.5	516.6	517.0	516.6	516.6	516.6	516.6
5°	517.5	517.5	516.6	516.6	516.6	517.0	516.6	516.6
7.5°	517.0	516.6	515.7	515.2	515.2	514.8	514.8	514.8
10°	516.1	515.2	514.3	513.9	513.9	513.0	513.0	513.0
12.5°	518.4	517.0	516.1	515.7	515.7	515.7	516.1	516.1
15°	524.7	522.0	520.6	520.2	520.6	521.5	522.0	522.4
17.5°	531.4	528.7	526.5	525.6	526.0	527.4	528.7	529.6
20°	540.0	537.7	535.0	534.1	534.1	535.9	536.8	538.2
22.5°	552.2	550.4	548.1	546.8	545.9	548.1	549.5	550.4
25°	571.5	569.7	567.9	566.6	566.1	568.4	569.3	569.7
27.5°	597.2	595.4	594.5	594.0	592.7	593.6	594.9	594.5
30°	630.5	631.9	630.5	630.5	628.3	629.2	628.3	627.4
32.5°	675.1	673.8	669.7	667.0	663.9	663.9	662.5	661.2
35°	719.7	715.2	712.9	714.3	712.9	713.8	711.6	709.3
37.5°	772.4	769.7	769.2	773.3	772.4	773.3	773.3	770.1
40°	842.2	840.4	843.6	850.3	853.0	852.6	853.5	849.4
42.5°	922.4	919.2	920.6	926.4	929.6	930.5	930.0	926.4
45°	1002.5	1003.4	1003.4	1009.7	1012.9	1014.7	1011.5	1010.2
47.5°	1093.1	1094.4	1091.3	1095.3	1096.2	1099.4	1096.7	1094.4
50°	1197.5	1192.6	1185.4	1186.7	1186.7	1185.8	1182.7	1180.0
52.5°	1314.2	1302.9	1289.4	1284.9	1280.0	1275.0	1268.7	1263.8
55°	1447.1	1427.7	1403.4	1392.1	1382.7	1371.4	1357.0	1352.0
57.5°	1601.1	1567.8	1535.3	1515.1	1490.7	1475.9	1457.4	1456.5
60°	1783.9	1738.9	1681.7	1651.5	1627.2	1609.6	1595.7	1590.3
62.5°	1995.2	1917.7	1856.0	1823.6	1795.2	1784.4	1766.8	1769.1
65°	2211.8	2133.0	2073.1	2047.0	2020.4	2013.2	1997.0	2002.8
67.5°	2446.4	2381.6	2315.8	2291.5	2267.2	2260.0	2243.3	2248.3
70°	2656.8	2574.3	2499.6	2451.8	2410.4	2377.1	2355.9	2347.4
72.5°	2698.7	2555.9	2438.3	2319.0	2250.1	2189.7	2165.0	2155.5
75°	2424.8	2203.2	2035.7	1895.6	1818.2	1730.3	1720.9	1707.8
77.5°	1886.2	1634.0	1431.3	1251.1	1147.1	1039.9	1003.0	975.1
80°	1125.0	864.7	670.2	469.7	383.3	308.5	290.0	270.7
82.5°	402.6	258.1	173.8	135.6	121.2	111.7	104.5	95.0
85°	97.3	82.0	77.5	70.3	69.4	59.0	41.9	37.4
87.5°	31.1	28.4	28.8	27.5	28.8	21.6	17.6	15.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)