

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: P199143

Luminaire Tested: **XNV2-AF-02-LED-U-5WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199143
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-8030
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10237 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - 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

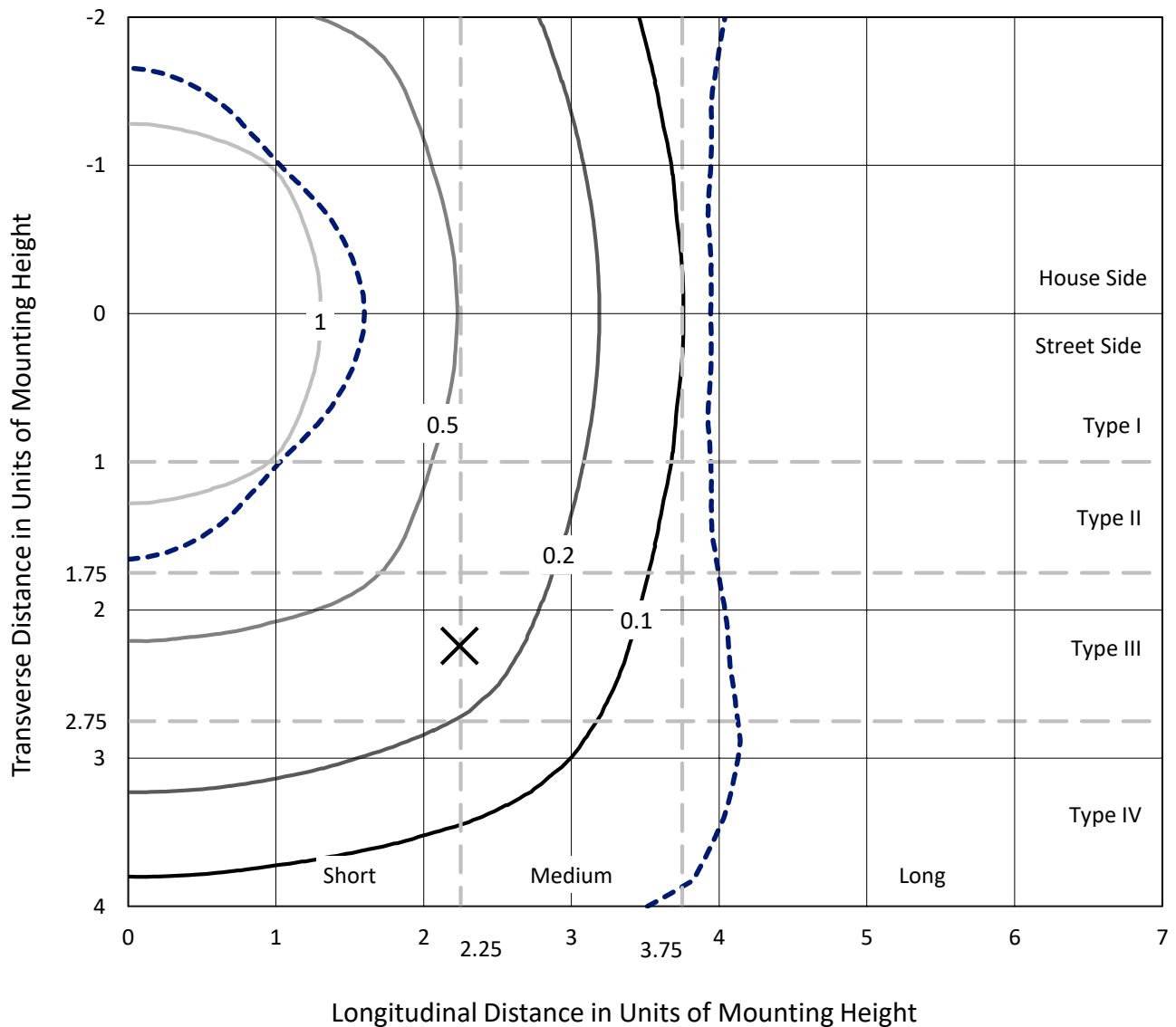


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

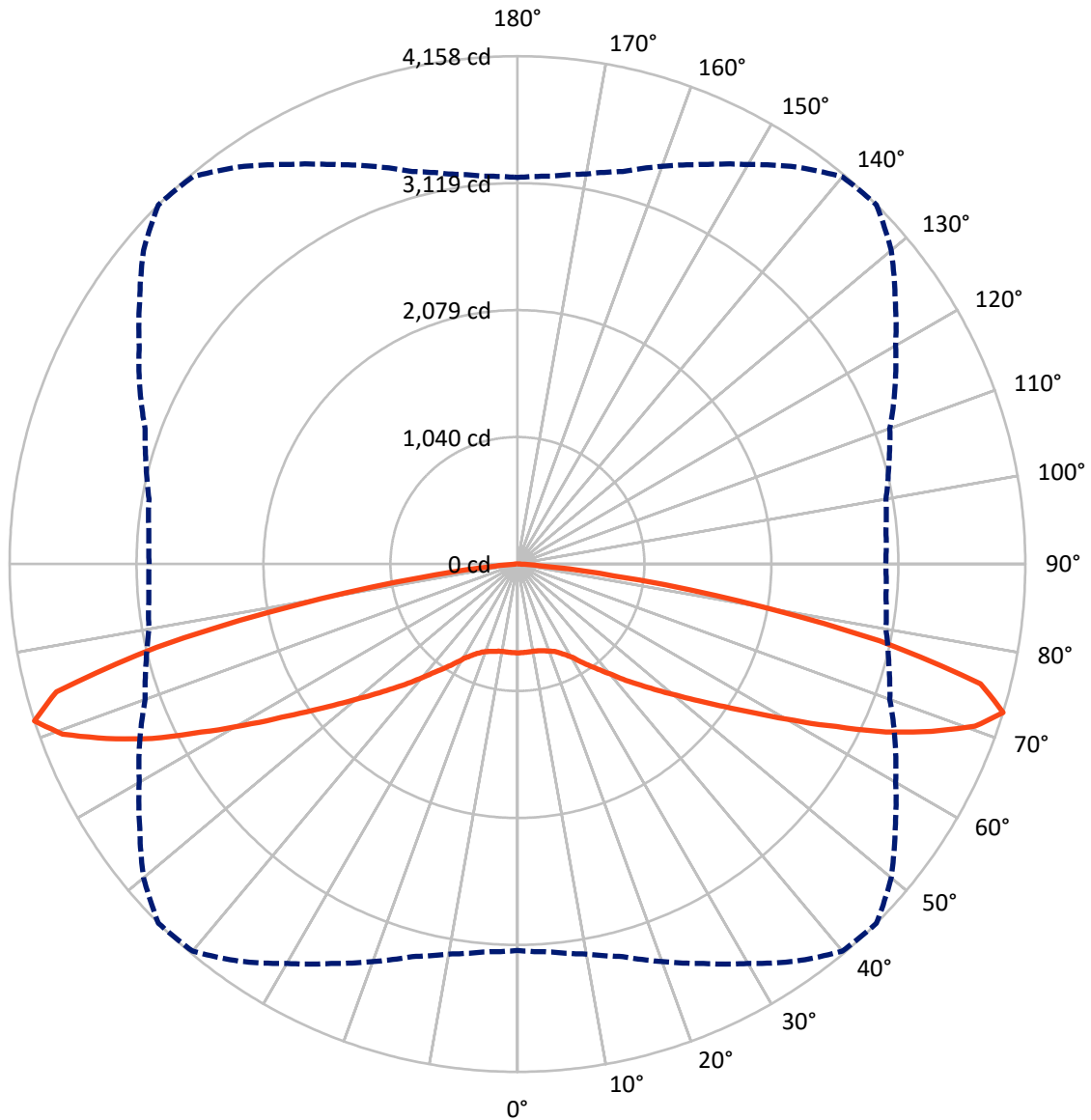


Based on 20 foot mounting height. Maximum calculated value = 1.8 fc
 Type V - Short - Semi-Cutoff

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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	5118.5	0.0	5118.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5118.5	0.0	5118.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10237.0	0.0	10237.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.5	0.7
10°-20°	210.2	2.1
20°-30°	379.5	3.7
30°-40°	647.4	6.3
40°-50°	1102.2	10.8
50°-60°	1773.7	17.3
60°-70°	2949.8	28.8
70°-80°	2853.6	27.9
80°-90°	251.2	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°	10237.0	100.0
0°-180°	10237.0	100.0



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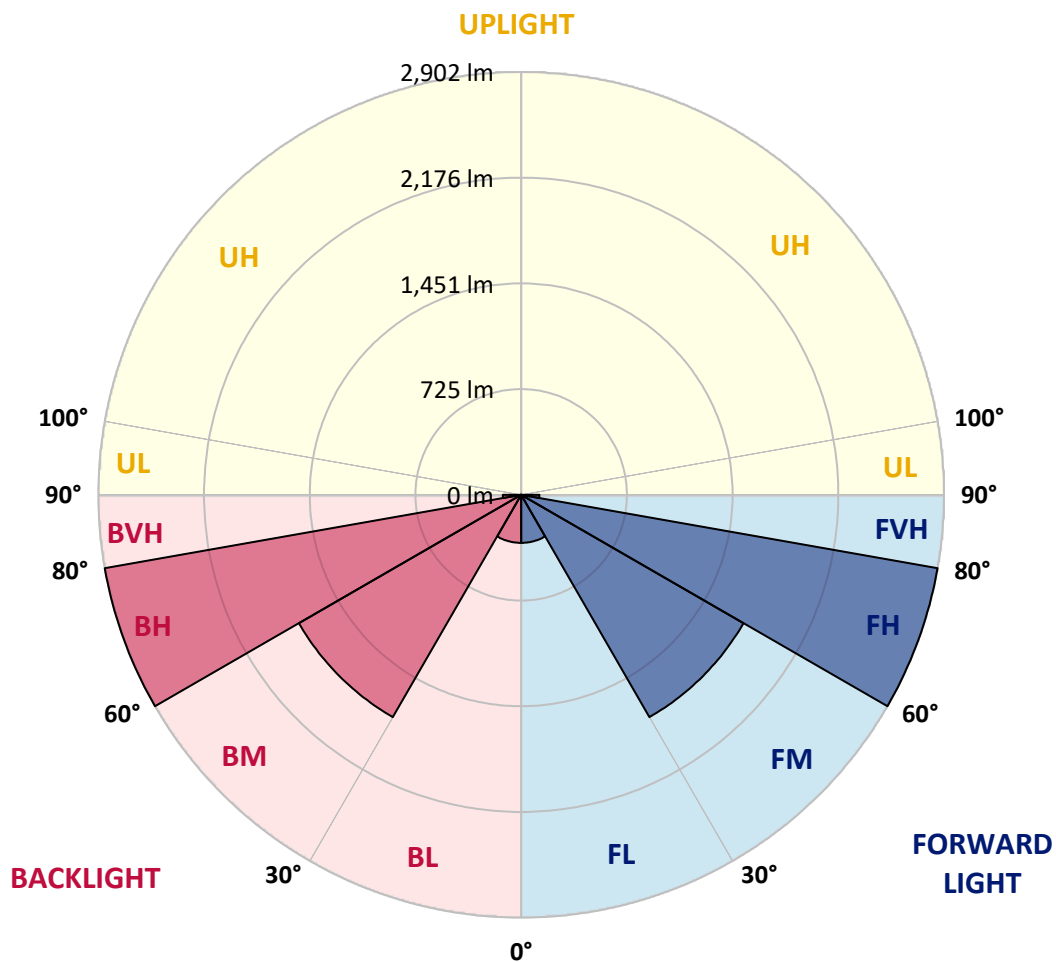
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	329.6	3.2			
FM	(30°-60°)	1761.6	17.2			
FH	(60°-80°)	2901.7	28.3			G2/5000
FVH	(80°-90°)	125.6	1.2			G2/225
BL	(0°-30°)	329.6	3.2	B1/500		
BM	(30°-60°)	1761.6	17.2	B2/2500		
BH	(60°-80°)	2901.7	28.3	B4/5000		G2/5000
BVH	(80°-90°)	125.6	1.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	727.8	727.8	727.8	727.8	727.8	727.8	727.8	727.8	727.8	727.8	727.8
2.5°	733.4	733.4	734.1	733.4	732.2	731.6	729.7	728.4	727.1	726.5	725.3
5°	734.1	734.1	734.7	734.1	732.8	731.6	730.3	728.4	727.1	725.9	725.3
7.5°	736.6	737.2	737.9	737.2	734.7	733.4	731.6	729.7	727.1	725.9	724.6
10°	741.6	741.6	741.6	741.0	739.1	736.6	734.1	732.2	729.0	725.9	724.0
12.5°	745.4	746.0	746.0	744.8	742.3	739.1	736.6	734.7	732.2	729.7	727.8
15°	751.1	751.1	750.5	747.9	744.2	741.6	740.4	739.7	739.1	737.9	736.0
17.5°	762.4	761.8	759.9	756.1	751.7	749.8	748.6	748.6	748.6	747.9	746.7
20°	778.8	778.8	776.3	770.0	766.2	764.3	762.4	762.4	762.4	760.5	758.6
22.5°	805.3	805.9	802.1	794.6	789.5	785.7	783.2	781.3	779.4	778.2	775.0
25°	841.2	840.6	836.2	826.7	822.9	819.1	814.1	810.9	808.4	806.5	802.8
27.5°	879.0	878.4	873.3	865.1	862.6	856.9	853.2	848.8	845.6	842.5	838.7
30°	927.5	924.4	920.6	914.3	913.0	908.6	903.6	897.3	892.2	887.2	882.8
32.5°	971.0	971.0	965.3	962.2	964.7	962.8	963.4	959.7	956.5	954.6	950.2
35°	1031.5	1031.5	1029.0	1025.2	1025.8	1021.4	1020.8	1021.4	1023.9	1023.9	1018.9
37.5°	1112.1	1113.4	1105.2	1103.9	1100.8	1094.5	1091.3	1092.6	1098.3	1101.4	1094.5
40°	1212.3	1214.8	1212.3	1204.1	1200.4	1189.6	1183.3	1183.3	1187.8	1190.9	1188.4
42.5°	1311.3	1315.7	1311.3	1305.0	1301.8	1293.6	1290.5	1293.0	1298.7	1302.4	1298.7
45°	1421.5	1424.7	1419.0	1411.4	1407.7	1403.2	1401.4	1403.2	1409.5	1413.3	1412.1
47.5°	1529.9	1534.3	1527.4	1524.2	1524.2	1519.8	1524.9	1529.9	1535.6	1544.4	1540.6
50°	1635.8	1641.4	1637.0	1637.6	1642.7	1650.9	1660.3	1670.4	1680.5	1689.9	1691.2
52.5°	1730.3	1739.1	1739.7	1751.1	1766.8	1779.4	1805.9	1827.9	1851.9	1860.1	1856.3
55°	1829.8	1841.8	1857.6	1875.2	1900.4	1926.2	1971.0	2010.7	2042.2	2061.7	2058.6
57.5°	1972.2	1984.2	2000.6	2029.6	2067.4	2102.7	2163.8	2225.5	2273.4	2303.0	2288.5
60°	2156.9	2169.5	2190.9	2221.8	2270.9	2318.8	2402.6	2491.4	2565.8	2599.8	2573.4
62.5°	2401.3	2413.3	2427.2	2468.1	2522.9	2584.7	2689.9	2804.0	2898.5	2931.3	2894.1
65°	2749.8	2764.3	2768.7	2802.1	2855.6	2913.0	3026.4	3154.9	3262.7	3316.3	3241.9
67.5°	3142.3	3148.0	3165.7	3204.7	3259.5	3311.2	3400.7	3522.3	3625.6	3655.3	3575.9
70°	3372.3	3383.7	3414.6	3468.7	3534.3	3615.6	3713.2	3844.3	3961.5	3975.3	3874.5
72.5°	3164.4	3187.7	3242.5	3327.0	3464.3	3608.6	3776.9	3970.3	4138.5	4158.1	3996.1
75°	2538.1	2564.5	2630.1	2722.7	2885.3	3099.5	3342.7	3633.2	3885.2	3917.4	3703.1
77.5°	1352.8	1385.6	1480.8	1605.5	1837.4	2120.9	2413.9	2745.4	2959.6	3032.1	2877.7
80°	340.9	358.5	404.5	477.6	634.5	863.2	1115.9	1472.6	1738.5	1851.3	1738.5
82.5°	132.3	145.6	158.2	167.0	182.1	213.6	294.9	480.8	647.8	797.7	690.6
85°	51.0	54.2	78.1	88.8	88.8	97.7	112.2	132.3	163.8	179.0	150.0
87.5°	20.2	22.1	27.1	41.6	42.8	37.8	40.3	45.4	34.7	29.0	32.8
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°	727.8	727.8	727.8	727.8	727.8	727.8	727.8	727.8
2.5°	724.6	724.0	722.7	723.4	722.7	722.7	722.7	722.7
5°	724.0	724.0	722.7	722.7	722.7	723.4	722.7	722.7
7.5°	723.4	722.7	721.5	720.8	720.8	720.2	720.2	720.2
10°	722.1	720.8	719.6	719.0	719.0	717.7	717.7	717.7
12.5°	725.3	723.4	722.1	721.5	721.5	721.5	722.1	722.1
15°	734.1	730.3	728.4	727.8	728.4	729.7	730.3	730.9
17.5°	743.5	739.7	736.6	735.3	736.0	737.9	739.7	741.0
20°	755.5	752.3	748.6	747.3	747.3	749.8	751.1	753.0
22.5°	772.5	770.0	766.8	765.0	763.7	766.8	768.7	770.0
25°	799.6	797.1	794.6	792.7	792.0	795.2	796.5	797.1
27.5°	835.5	833.0	831.7	831.1	829.2	830.5	832.4	831.7
30°	882.2	884.0	882.2	882.2	879.0	880.3	879.0	877.7
32.5°	944.5	942.6	937.0	933.2	928.8	928.8	926.9	925.0
35°	1006.9	1000.6	997.5	999.4	997.5	998.7	995.6	992.4
37.5°	1080.6	1076.9	1076.2	1081.9	1080.6	1081.9	1081.9	1077.5
40°	1178.3	1175.8	1180.2	1189.6	1193.4	1192.8	1194.1	1188.4
42.5°	1290.5	1286.0	1287.9	1296.1	1300.5	1301.8	1301.2	1296.1
45°	1402.6	1403.9	1403.9	1412.7	1417.1	1419.6	1415.2	1413.3
47.5°	1529.3	1531.2	1526.7	1532.4	1533.7	1538.1	1534.3	1531.2
50°	1675.5	1668.5	1658.4	1660.3	1660.3	1659.1	1654.7	1650.9
52.5°	1838.7	1822.9	1804.0	1797.7	1790.8	1783.8	1775.0	1768.1
55°	2024.5	1997.4	1963.4	1947.7	1934.4	1918.7	1898.5	1891.6
57.5°	2240.0	2193.4	2148.0	2119.7	2085.7	2064.9	2039.0	2037.8
60°	2495.9	2432.8	2352.8	2310.6	2276.6	2252.0	2232.5	2224.9
62.5°	2791.4	2683.0	2596.7	2551.3	2511.6	2496.5	2471.9	2475.1
65°	3094.5	2984.2	2900.4	2863.8	2826.7	2816.6	2793.9	2802.1
67.5°	3422.7	3332.0	3240.0	3206.0	3172.0	3161.9	3138.6	3145.5
70°	3717.0	3601.7	3497.1	3430.3	3372.3	3325.7	3296.1	3284.1
72.5°	3775.6	3575.9	3411.4	3244.4	3148.0	3063.6	3028.9	3015.7
75°	3392.5	3082.5	2848.1	2652.1	2543.7	2420.9	2407.6	2389.4
77.5°	2638.9	2286.0	2002.5	1750.4	1604.9	1454.9	1403.2	1364.2
80°	1574.0	1209.8	937.6	657.2	536.2	431.6	405.8	378.7
82.5°	563.3	361.1	243.2	189.7	169.5	156.3	146.2	133.0
85°	136.1	114.7	108.4	98.3	97.0	82.5	58.6	52.3
87.5°	43.5	39.7	40.3	38.4	40.3	30.2	24.6	22.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)