

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: P198505

Luminaire Tested: **XNV2-AF-02-LED-U-5WQ-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198505
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-7030-1200
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12182 lumens
Efficiency: N/A
Efficacy: 95.2 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): 128
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

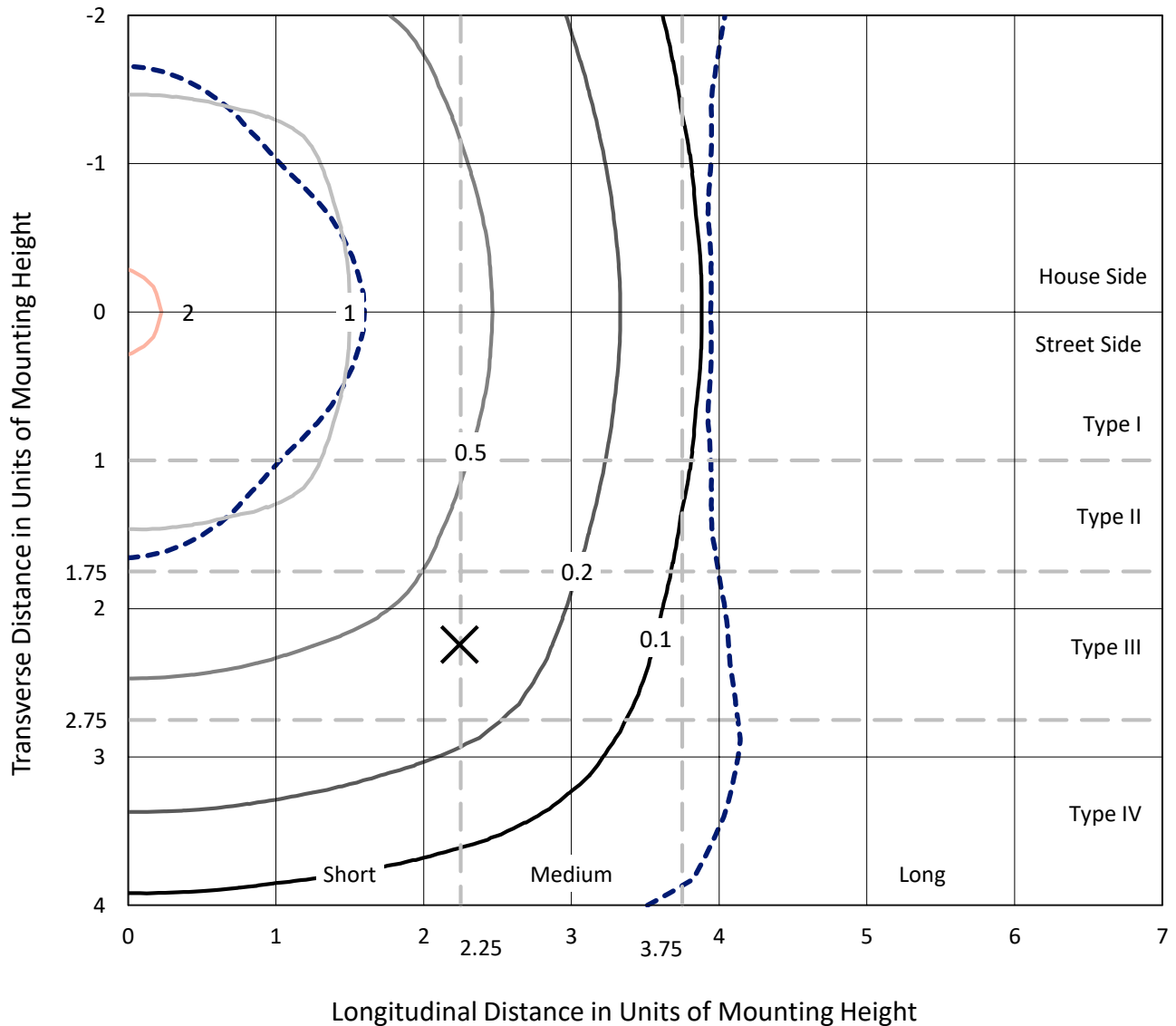


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

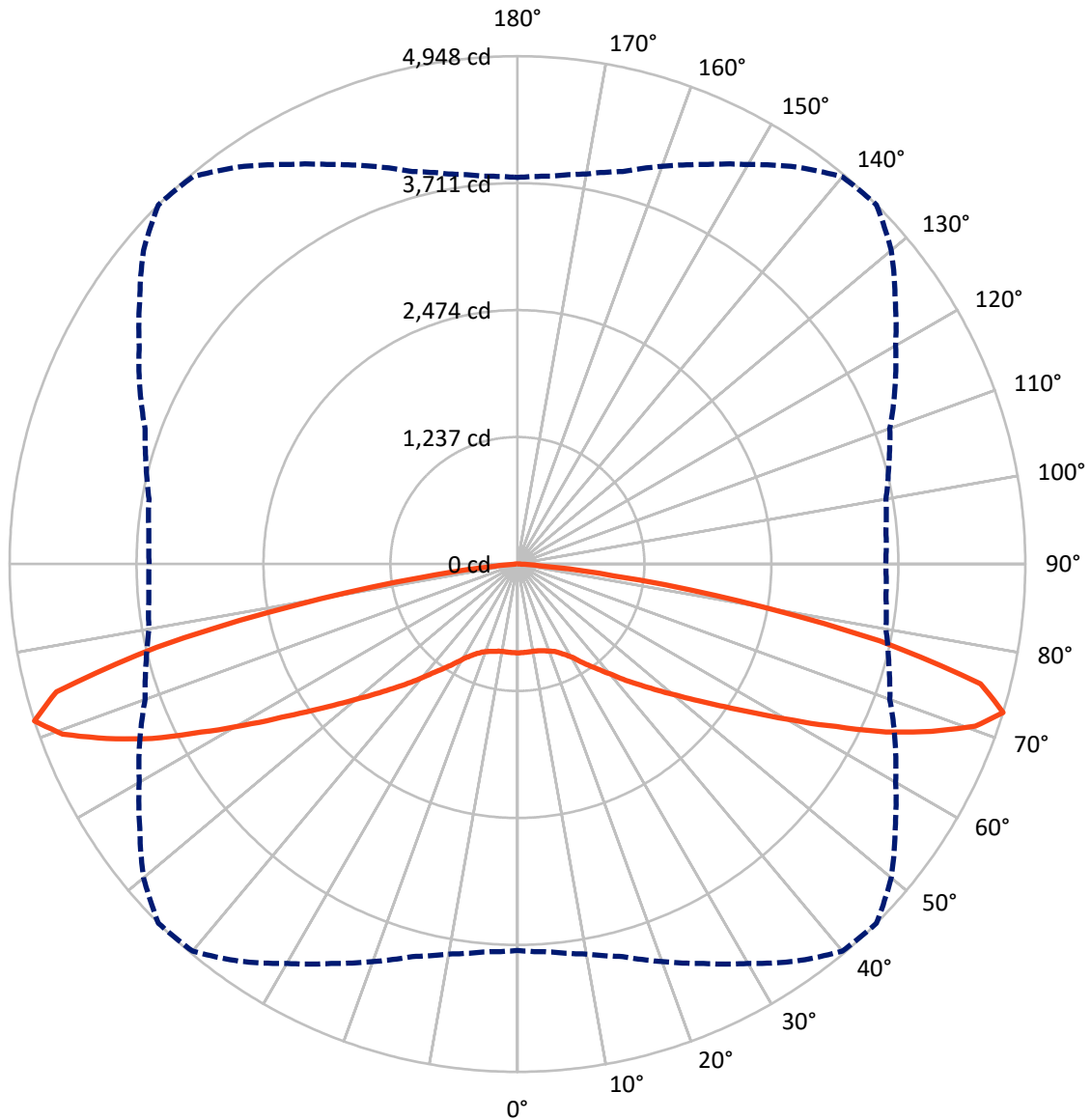


Based on 20 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Short - Semi-Cutoff

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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	6091.0	0.0	6091.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6091.0	0.0	6091.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12182.0	0.0	12182.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.7	0.7
10°-20°	250.2	2.1
20°-30°	451.6	3.7
30°-40°	770.4	6.3
40°-50°	1311.6	10.8
50°-60°	2110.8	17.3
60°-70°	3510.2	28.8
70°-80°	3395.8	27.9
80°-90°	298.9	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°	12182.0	100.0
0°-180°	12182.0	100.0



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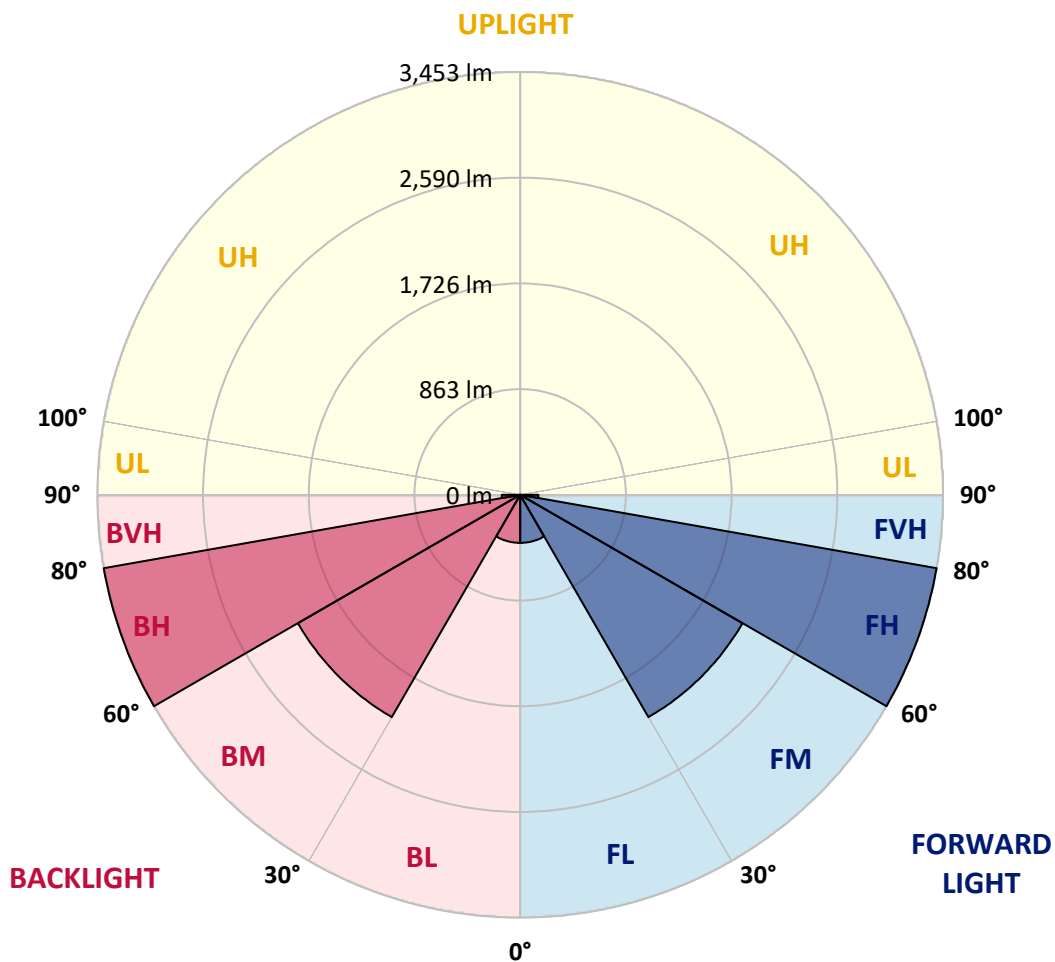
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	392.2	3.2			
FM	(30°-60°)	2096.3	17.2			
FH	(60°-80°)	3453.0	28.3			G2/5000
FVH	(80°-90°)	149.4	1.2			G2/225
BL	(0°-30°)	392.2	3.2	B1/500		
BM	(30°-60°)	2096.3	17.2	B2/2500		
BH	(60°-80°)	3453.0	28.3	B4/5000		G2/5000
BVH	(80°-90°)	149.4	1.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0
2.5°	872.8	872.8	873.5	872.8	871.3	870.5	868.3	866.8	865.3	864.5	863.0
5°	873.5	873.5	874.3	873.5	872.0	870.5	869.0	866.8	865.3	863.8	863.0
7.5°	876.5	877.3	878.0	877.3	874.3	872.8	870.5	868.3	865.3	863.8	862.3
10°	882.5	882.5	882.5	881.8	879.5	876.5	873.5	871.3	867.5	863.8	861.5
12.5°	887.0	887.8	887.8	886.3	883.3	879.5	876.5	874.3	871.3	868.3	866.0
15°	893.8	893.8	893.0	890.0	885.5	882.5	881.0	880.3	879.5	878.0	875.8
17.5°	907.3	906.5	904.3	899.8	894.5	892.3	890.8	890.8	890.8	890.0	888.5
20°	926.8	926.8	923.8	916.3	911.8	909.5	907.3	907.3	907.3	905.0	902.8
22.5°	958.3	959.0	954.5	945.5	939.5	935.0	932.0	929.8	927.5	926.0	922.3
25°	1001.0	1000.3	995.0	983.8	979.3	974.8	968.8	965.0	962.0	959.8	955.3
27.5°	1046.0	1045.3	1039.3	1029.5	1026.5	1019.8	1015.3	1010.0	1006.3	1002.5	998.0
30°	1103.7	1100.0	1095.5	1088.0	1086.5	1081.2	1075.3	1067.8	1061.8	1055.8	1050.5
32.5°	1155.5	1155.5	1148.7	1145.0	1148.0	1145.7	1146.5	1142.0	1138.2	1136.0	1130.7
35°	1227.5	1227.5	1224.5	1220.0	1220.7	1215.5	1214.7	1215.5	1218.5	1218.5	1212.5
37.5°	1323.4	1324.9	1315.2	1313.7	1309.9	1302.4	1298.7	1300.2	1306.9	1310.7	1302.4
40°	1442.7	1445.7	1442.7	1432.9	1428.4	1415.7	1408.2	1408.2	1413.4	1417.2	1414.2
42.5°	1560.4	1565.6	1560.4	1552.9	1549.1	1539.4	1535.6	1538.6	1545.4	1549.9	1545.4
45°	1691.6	1695.4	1688.6	1679.6	1675.1	1669.9	1667.6	1669.9	1677.4	1681.9	1680.4
47.5°	1820.6	1825.8	1817.6	1813.8	1813.8	1808.6	1814.6	1820.6	1827.3	1837.8	1833.3
50°	1946.5	1953.3	1948.0	1948.8	1954.8	1964.5	1975.8	1987.8	1999.8	2011.0	2012.5
52.5°	2059.0	2069.5	2070.3	2083.8	2102.5	2117.5	2149.0	2175.2	2203.7	2213.5	2209.0
55°	2177.5	2191.7	2210.5	2231.5	2261.5	2292.2	2345.5	2392.7	2430.2	2453.4	2449.7
57.5°	2347.0	2361.2	2380.7	2415.2	2460.2	2502.2	2574.9	2648.4	2705.4	2740.6	2723.4
60°	2566.7	2581.7	2607.1	2643.9	2702.4	2759.4	2859.1	2964.8	3053.3	3093.8	3062.3
62.5°	2857.6	2871.8	2888.3	2937.1	3002.3	3075.8	3201.0	3336.7	3449.2	3488.2	3443.9
65°	3272.2	3289.5	3294.7	3334.5	3398.2	3466.4	3601.4	3754.4	3882.6	3946.3	3857.9
67.5°	3739.4	3746.1	3767.1	3813.6	3878.8	3940.3	4046.8	4191.5	4314.5	4349.7	4255.3
70°	4013.1	4026.6	4063.3	4127.8	4205.8	4302.5	4418.7	4574.7	4714.2	4730.7	4610.7
72.5°	3765.6	3793.4	3858.6	3959.1	4122.5	4294.3	4494.5	4724.7	4924.9	4948.1	4755.4
75°	3020.3	3051.8	3129.8	3240.0	3433.5	3688.4	3977.8	4323.5	4623.4	4661.7	4406.7
77.5°	1609.9	1648.9	1762.1	1910.6	2186.5	2523.9	2872.6	3267.0	3521.9	3608.2	3424.5
80°	405.7	426.7	481.4	568.4	755.1	1027.3	1327.9	1752.3	2068.8	2203.0	2068.8
82.5°	157.5	173.2	188.2	198.7	216.7	254.2	350.9	572.1	770.8	949.3	821.8
85°	60.7	64.5	93.0	105.7	105.7	116.2	133.5	157.5	195.0	213.0	178.5
87.5°	24.0	26.2	32.2	49.5	51.0	45.0	48.0	54.0	41.2	34.5	39.0
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°	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0
2.5°	862.3	861.5	860.1	860.8	860.1	860.1	860.1	860.1
5°	861.5	861.5	860.1	860.1	860.1	860.8	860.1	860.1
7.5°	860.8	860.1	858.6	857.8	857.8	857.1	857.1	857.1
10°	859.3	857.8	856.3	855.6	855.6	854.1	854.1	854.1
12.5°	863.0	860.8	859.3	858.6	858.6	858.6	859.3	859.3
15°	873.5	869.0	866.8	866.0	866.8	868.3	869.0	869.8
17.5°	884.8	880.3	876.5	875.0	875.8	878.0	880.3	881.8
20°	899.0	895.3	890.8	889.3	889.3	892.3	893.8	896.0
22.5°	919.3	916.3	912.5	910.3	908.8	912.5	914.8	916.3
25°	951.5	948.5	945.5	943.3	942.5	946.3	947.8	948.5
27.5°	994.3	991.3	989.8	989.0	986.8	988.3	990.5	989.8
30°	1049.8	1052.0	1049.8	1049.8	1046.0	1047.5	1046.0	1044.5
32.5°	1124.0	1121.7	1115.0	1110.5	1105.2	1105.2	1103.0	1100.7
35°	1198.2	1190.7	1187.0	1189.2	1187.0	1188.5	1184.7	1181.0
37.5°	1286.0	1281.5	1280.7	1287.5	1286.0	1287.5	1287.5	1282.2
40°	1402.2	1399.2	1404.4	1415.7	1420.2	1419.4	1420.9	1414.2
42.5°	1535.6	1530.4	1532.6	1542.4	1547.6	1549.1	1548.4	1542.4
45°	1669.1	1670.6	1670.6	1681.1	1686.4	1689.4	1684.1	1681.9
47.5°	1819.8	1822.1	1816.8	1823.6	1825.1	1830.3	1825.8	1822.1
50°	1993.8	1985.5	1973.5	1975.8	1975.8	1974.3	1969.0	1964.5
52.5°	2188.0	2169.2	2146.8	2139.3	2131.0	2122.8	2112.3	2104.0
55°	2409.2	2376.9	2336.5	2317.7	2302.0	2283.2	2259.2	2251.0
57.5°	2665.6	2610.1	2556.2	2522.4	2481.9	2457.2	2426.4	2424.9
60°	2970.1	2895.1	2799.8	2749.6	2709.1	2679.9	2656.6	2647.6
62.5°	3321.7	3192.8	3090.0	3036.0	2988.8	2970.8	2941.6	2945.3
65°	3682.4	3551.2	3451.4	3408.0	3363.7	3351.7	3324.7	3334.5
67.5°	4073.1	3965.1	3855.6	3815.1	3774.6	3762.6	3734.9	3743.1
70°	4423.2	4286.0	4161.5	4082.1	4013.1	3957.6	3922.3	3908.1
72.5°	4493.0	4255.3	4059.6	3860.9	3746.1	3645.7	3604.4	3588.7
75°	4037.1	3668.1	3389.2	3156.0	3027.0	2880.8	2865.1	2843.3
77.5°	3140.3	2720.4	2382.9	2083.0	1909.8	1731.3	1669.9	1623.4
80°	1873.1	1439.7	1115.7	782.1	638.1	513.6	482.9	450.6
82.5°	670.3	429.7	289.4	225.7	201.7	186.0	174.0	158.2
85°	162.0	136.5	129.0	117.0	115.5	98.2	69.7	62.2
87.5°	51.7	47.2	48.0	45.7	48.0	36.0	29.2	26.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)