

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: P299948

Luminaire Tested: **GAA-AF-03-LED-U-5WQ-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299948
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-03-LED-U-5WQ-7030-600
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
w/Spill Control OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12154.2 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 96
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

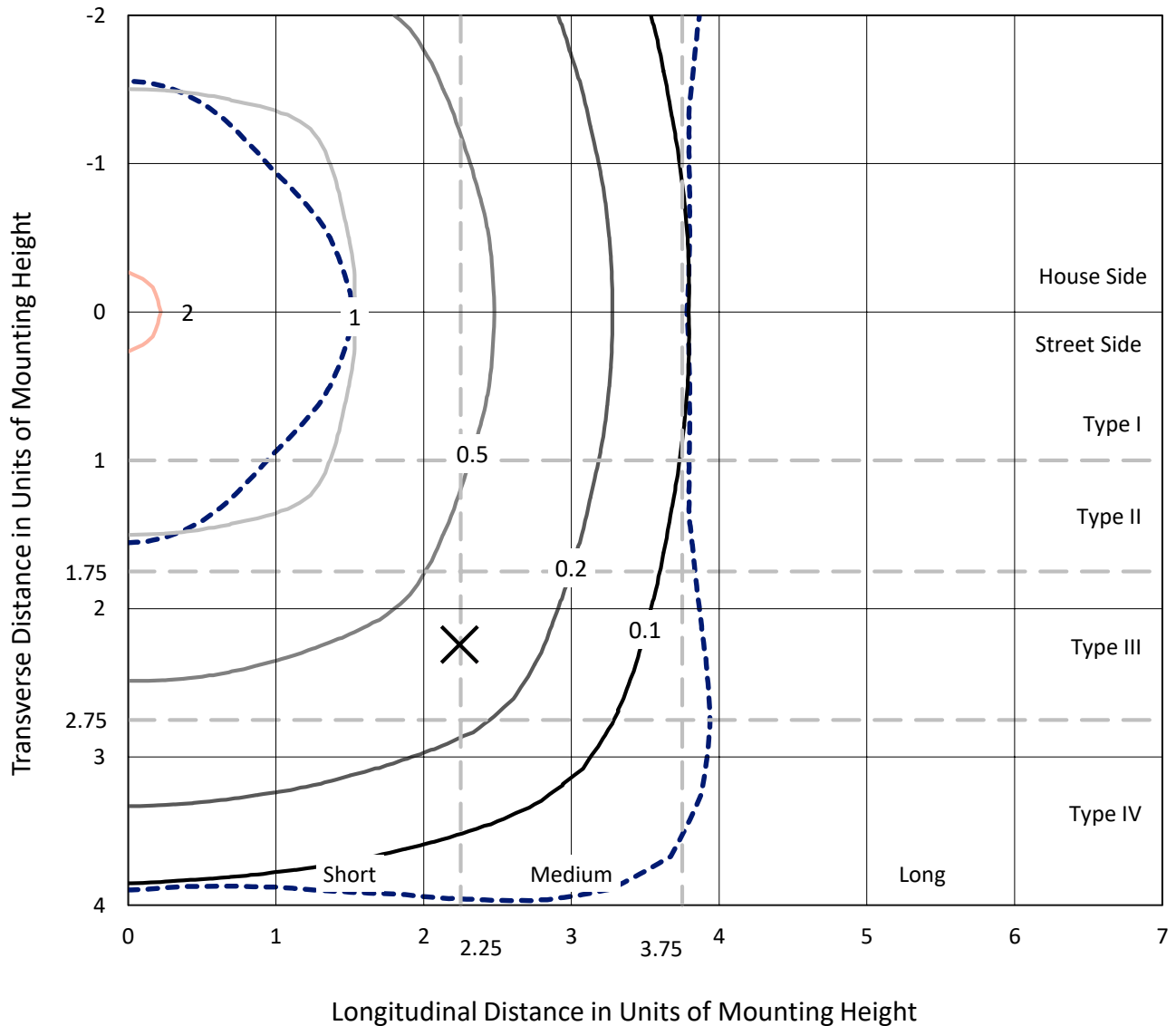


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

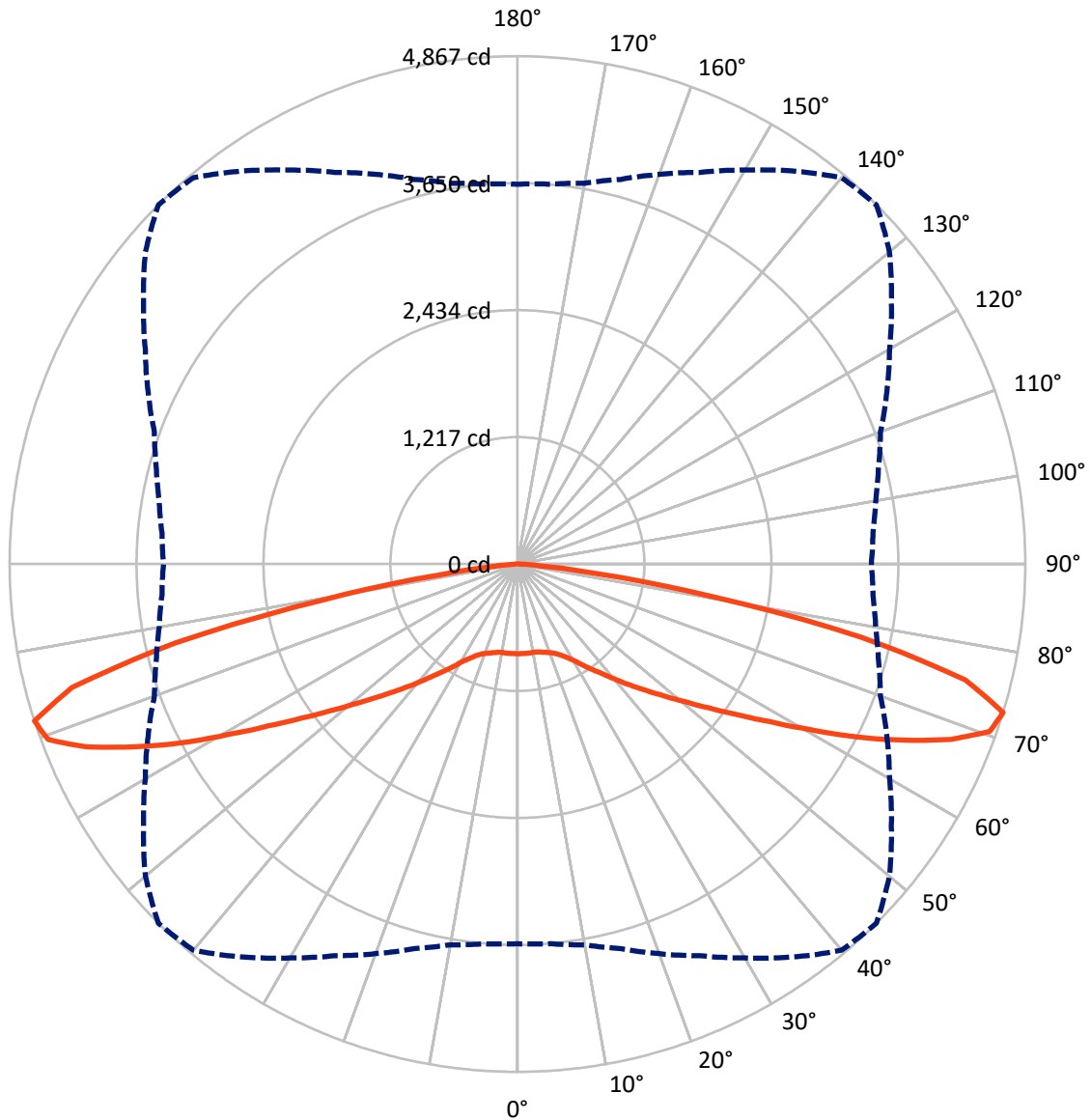


Based on 20 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Short - Semi-Cutoff

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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	6077.1	0.0	6077.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6077.1	0.0	6077.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	12154.2	0.0	12154.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.2	0.7
10°-20°	249.6	2.1
20°-30°	456.1	3.8
30°-40°	786.5	6.5
40°-50°	1344.5	11.1
50°-60°	2179.2	17.9
60°-70°	3615.2	29.7
70°-80°	3184.2	26.2
80°-90°	256.7	2.1
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°	12154.2	100.0
0°-180°	12154.2	100.0



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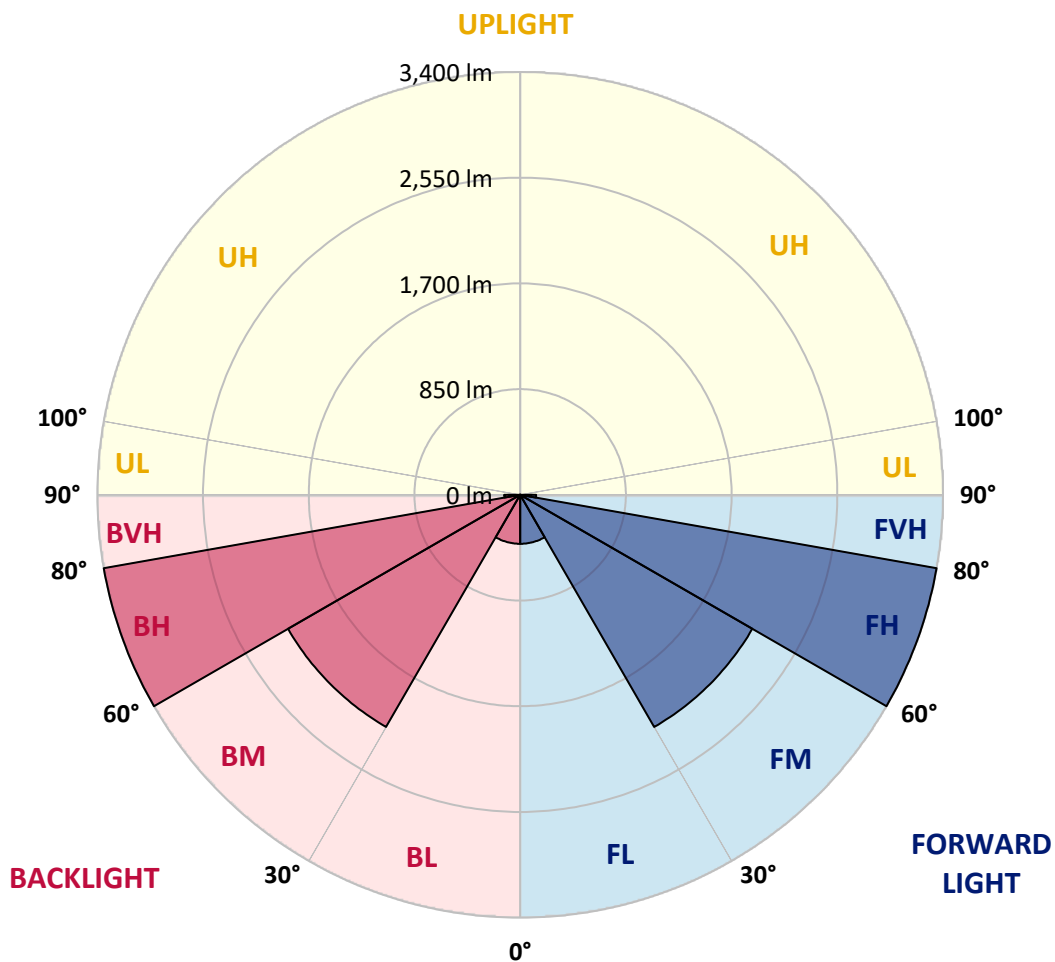
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	394.0	3.2			
FM (30°-60°)	2155.1	17.7			
FH (60°-80°)	3399.7	28.0			G2/5000
FVH (80°-90°)	128.4	1.1			G2/225
BL (0°-30°)	394.0	3.2	B1/500		
BM (30°-60°)	2155.1	17.7	B2/2500		
BH (60°-80°)	3399.7	28.0	B4/5000		G2/5000
BVH (80°-90°)	128.4	1.1			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°	860.7	860.7	860.7	860.7	860.7	860.7	860.7	860.7	860.7	860.7	860.7
2.5°	860.7	861.3	861.8	861.3	861.3	860.7	860.2	860.7	860.2	859.0	859.6
5°	863.5	864.6	864.6	863.5	864.1	863.5	862.4	862.9	861.8	860.2	860.2
7.5°	866.8	867.4	867.4	866.3	866.8	865.7	864.6	864.1	862.9	860.7	859.0
10°	871.9	872.4	871.9	870.7	870.7	869.1	866.3	865.2	862.9	859.6	857.9
12.5°	877.4	878.0	877.4	876.3	875.8	873.0	870.7	869.1	867.4	864.6	861.8
15°	885.2	886.4	885.2	883.0	881.3	879.1	878.0	878.5	879.1	876.9	874.1
17.5°	899.7	900.3	898.6	893.6	891.4	889.1	889.1	890.3	891.9	890.8	888.0
20°	926.5	924.8	920.9	914.8	912.0	908.1	907.5	908.1	908.1	907.5	905.3
22.5°	959.9	958.8	953.8	946.0	942.1	939.9	936.5	933.7	933.2	931.5	929.3
25°	1000.1	999.5	993.4	986.7	983.9	981.1	978.3	974.4	971.1	967.2	965.0
27.5°	1051.4	1049.1	1040.2	1036.9	1033.0	1031.3	1027.4	1022.9	1020.1	1015.1	1012.3
30°	1107.7	1107.7	1100.4	1099.3	1099.3	1095.4	1090.9	1083.1	1078.1	1073.1	1071.4
32.5°	1164.0	1164.5	1157.3	1159.5	1161.2	1164.0	1165.1	1162.3	1158.9	1158.4	1155.0
35°	1245.4	1243.1	1235.9	1237.5	1237.0	1236.4	1236.4	1242.6	1243.7	1244.8	1238.1
37.5°	1346.3	1346.3	1339.0	1339.0	1335.7	1332.3	1327.9	1331.8	1337.9	1339.6	1335.1
40°	1461.6	1465.5	1456.6	1456.1	1457.2	1446.6	1441.6	1447.7	1451.6	1458.3	1453.3
42.5°	1597.7	1594.9	1586.0	1584.8	1578.7	1575.4	1570.9	1575.9	1582.1	1586.5	1588.2
45°	1728.1	1725.9	1715.8	1715.8	1709.7	1706.9	1709.2	1717.5	1720.3	1726.4	1732.6
47.5°	1856.9	1854.1	1847.4	1850.2	1850.7	1855.8	1863.0	1870.8	1878.6	1887.0	1889.8
50°	1988.4	1989.0	1981.8	1988.4	1996.8	2010.7	2030.2	2043.1	2059.2	2069.8	2073.2
52.5°	2108.3	2110.5	2118.3	2133.9	2150.7	2178.0	2211.4	2242.6	2269.4	2287.2	2286.1
55°	2252.1	2255.5	2274.4	2301.2	2328.5	2369.7	2419.4	2474.5	2519.1	2544.8	2528.6
57.5°	2436.1	2443.3	2464.5	2500.7	2541.4	2595.0	2663.0	2746.0	2815.1	2849.7	2823.5
60°	2688.6	2693.1	2718.7	2758.8	2807.9	2874.2	2965.1	3076.6	3174.1	3219.9	3189.8
62.5°	3021.4	3029.8	3050.4	3091.1	3141.3	3216.5	3327.4	3466.8	3588.3	3651.9	3583.9
65°	3418.9	3445.6	3462.9	3504.2	3551.0	3630.7	3746.7	3896.0	4026.5	4068.3	3989.7
67.5°	3812.4	3835.8	3865.9	3913.3	3960.7	4050.5	4158.1	4303.0	4446.3	4484.2	4362.1
70°	3984.7	3998.1	4044.9	4109.6	4200.4	4306.3	4430.6	4593.4	4770.7	4801.9	4646.9
72.5°	3639.6	3653.0	3705.4	3815.2	3973.5	4141.9	4358.7	4597.9	4832.0	4867.1	4653.6
75°	2752.7	2731.0	2808.5	2954.0	3167.5	3402.1	3705.4	4048.2	4386.6	4430.6	4175.9
77.5°	1422.6	1419.8	1478.4	1659.0	1913.7	2180.8	2514.7	2902.1	3233.2	3367.0	3159.7
80°	400.8	405.3	433.1	522.9	671.7	864.6	1125.5	1488.4	1759.3	1897.6	1781.6
82.5°	157.2	169.5	180.1	196.8	216.3	244.7	326.7	486.1	652.2	779.3	638.3
85°	56.3	60.2	85.3	100.9	102.6	108.1	123.2	143.8	173.4	206.8	170.0
87.5°	21.2	23.4	27.3	45.2	44.6	40.7	49.6	51.8	39.0	35.7	44.0
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°	860.7	860.7	860.7	860.7	860.7	860.7	860.7	860.7
2.5°	858.5	859.0	859.0	859.6	860.2	860.2	861.3	861.3
5°	859.0	859.0	857.9	858.5	857.9	857.9	858.5	858.5
7.5°	857.9	857.4	856.3	855.7	854.6	854.6	854.6	854.6
10°	856.3	855.7	854.6	854.0	853.5	853.5	853.5	853.5
12.5°	860.7	859.0	857.9	857.4	857.4	857.4	857.4	857.4
15°	872.4	868.5	865.7	865.7	866.3	867.4	867.4	868.5
17.5°	886.9	882.5	879.7	877.4	878.5	880.2	881.3	882.5
20°	904.2	902.0	898.1	895.8	895.8	898.1	899.2	899.7
22.5°	928.2	926.5	924.8	922.0	922.0	923.1	925.4	925.4
25°	963.8	962.7	961.6	959.4	958.8	958.8	959.9	961.1
27.5°	1008.4	1009.0	1007.9	1007.3	1005.6	1005.1	1006.8	1006.2
30°	1068.1	1070.9	1073.7	1071.4	1068.6	1067.0	1065.3	1063.1
32.5°	1148.9	1145.6	1143.3	1139.4	1134.4	1130.0	1126.6	1122.7
35°	1225.3	1219.7	1217.5	1220.8	1220.3	1217.5	1213.6	1210.2
37.5°	1318.9	1317.8	1318.9	1325.1	1324.0	1326.7	1318.9	1318.4
40°	1437.1	1438.2	1446.0	1453.3	1457.2	1461.1	1456.6	1452.2
42.5°	1574.3	1573.7	1576.5	1586.5	1593.2	1597.7	1588.2	1587.1
45°	1719.2	1715.3	1717.5	1725.9	1732.6	1737.6	1727.0	1727.0
47.5°	1878.6	1871.9	1864.7	1874.2	1878.1	1881.4	1873.0	1870.3
50°	2056.4	2042.5	2026.9	2030.8	2030.8	2029.7	2019.1	2018.5
52.5°	2260.5	2234.8	2206.4	2195.8	2189.7	2183.0	2164.6	2155.7
55°	2495.2	2456.7	2412.1	2384.8	2370.3	2351.9	2321.2	2312.9
57.5°	2769.4	2709.2	2632.3	2598.9	2566.5	2536.4	2502.4	2492.9
60°	3094.4	3005.8	2903.8	2841.9	2806.8	2777.8	2742.7	2741.0
62.5°	3456.8	3316.9	3201.5	3145.7	3120.1	3094.4	3061.0	3065.4
65°	3825.3	3679.2	3571.1	3525.9	3501.9	3480.7	3447.3	3452.3
67.5°	4188.7	4054.4	3935.6	3889.4	3862.6	3835.8	3805.7	3810.8
70°	4449.6	4282.9	4149.1	4046.6	3982.5	3910.0	3863.2	3851.5
72.5°	4374.9	4117.9	3905.5	3702.1	3582.8	3485.8	3420.0	3391.6
75°	3786.2	3435.0	3161.9	2912.1	2771.7	2657.4	2574.3	2522.5
77.5°	2811.8	2417.1	2094.4	1806.7	1579.3	1426.5	1318.9	1249.3
80°	1539.1	1170.7	855.7	601.5	442.1	367.4	324.4	303.8
82.5°	479.4	309.4	228.0	196.8	182.8	175.0	162.2	141.6
85°	152.7	133.8	124.3	118.7	113.2	98.7	68.0	61.9
87.5°	59.1	60.8	60.2	56.9	58.0	41.8	33.4	29.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)