

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: P200562

Luminaire Tested: **GAP-AF-02-LED-U-5WQ-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200562
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: GAP-AF-02-LED-U-5WQ-8030-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 80 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: 11713 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 129
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

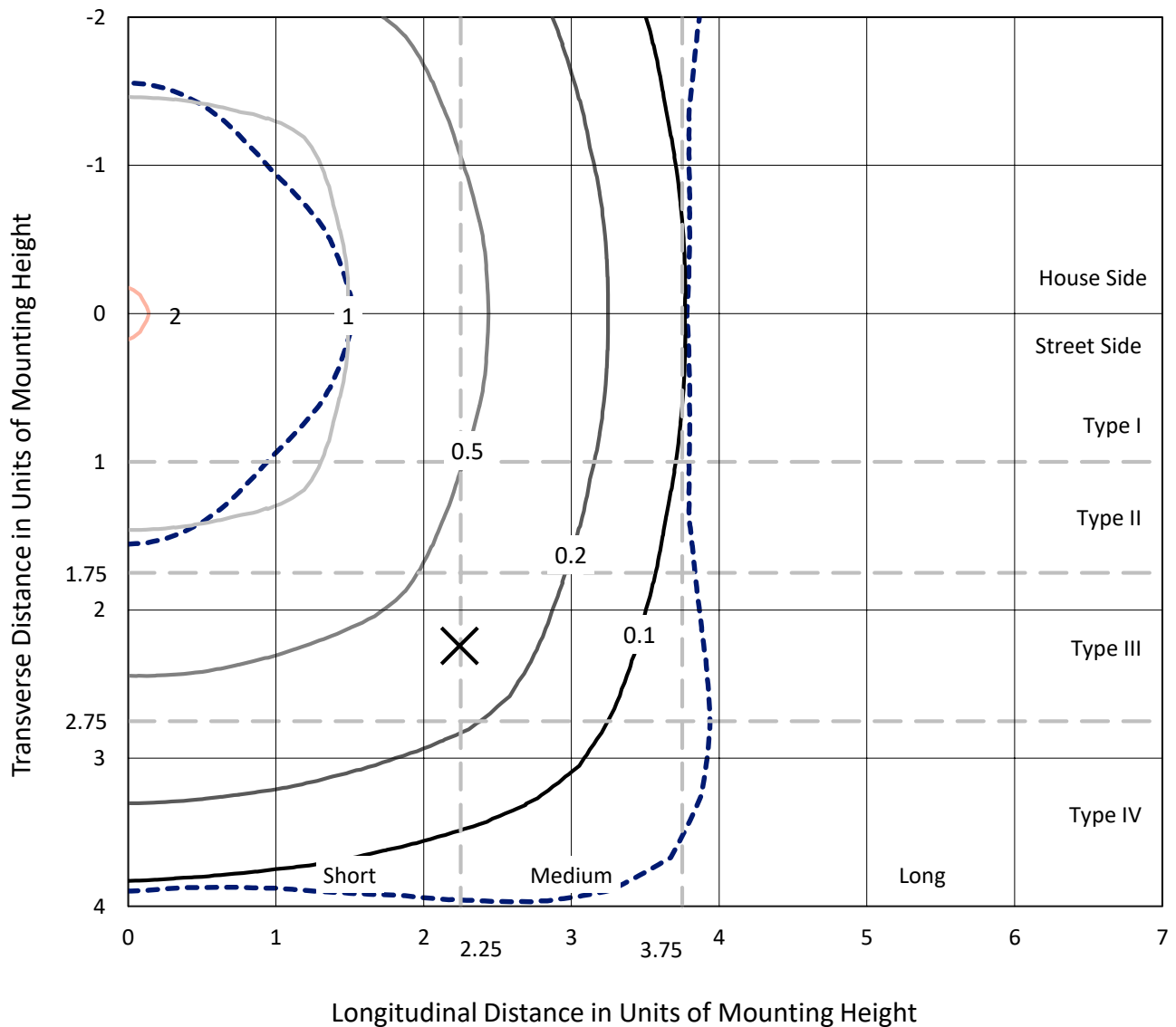


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

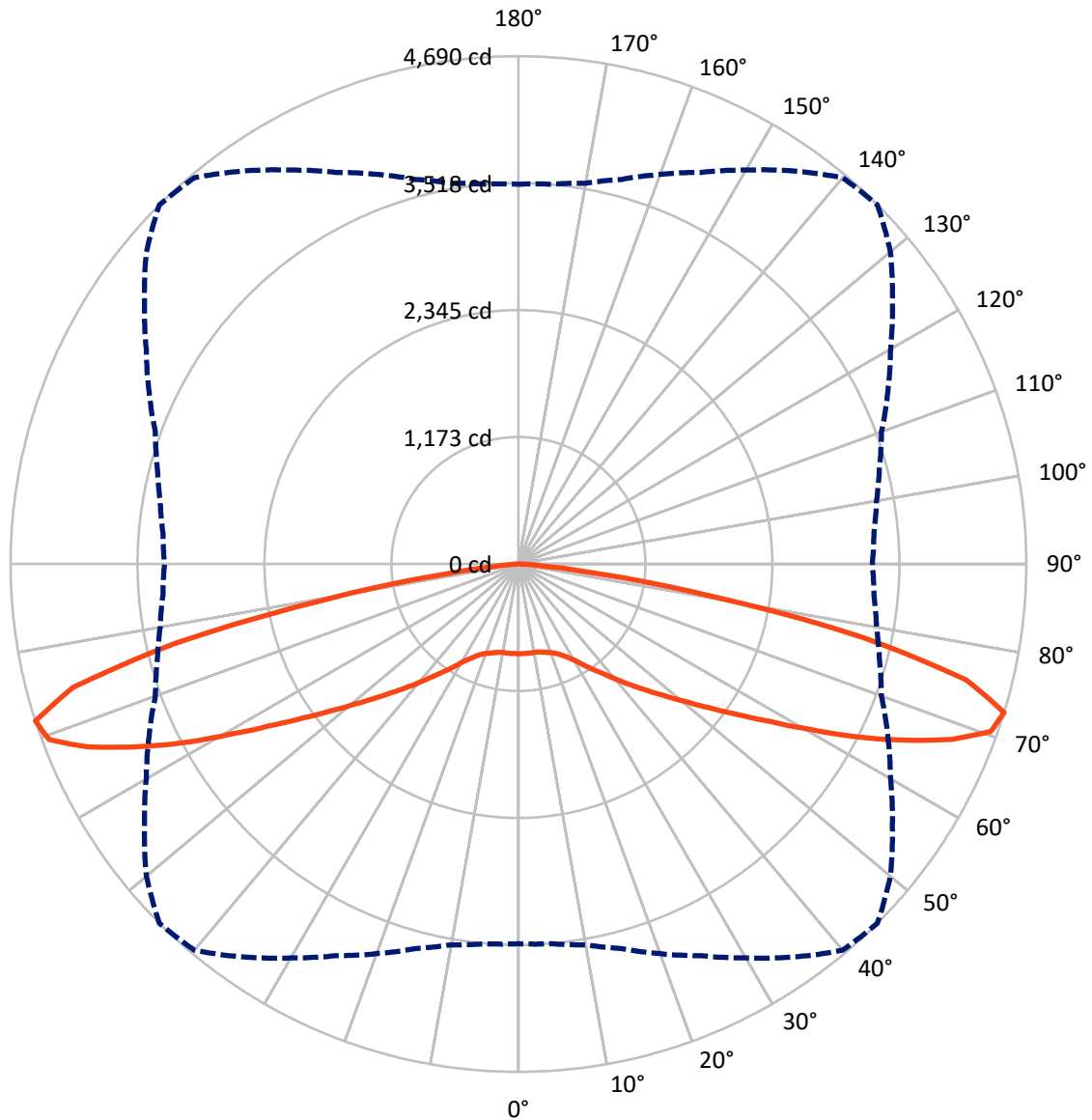


Based on 20 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Short - Semi-Cutoff

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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	5856.5	0.0	5856.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5856.5	0.0	5856.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11713.0	0.0	11713.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.2	0.7
10°-20°	240.6	2.1
20°-30°	439.6	3.8
30°-40°	757.9	6.5
40°-50°	1295.7	11.1
50°-60°	2100.1	17.9
60°-70°	3484.0	29.7
70°-80°	3068.6	26.2
80°-90°	247.4	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°	11713.0	100.0
0°-180°	11713.0	100.0



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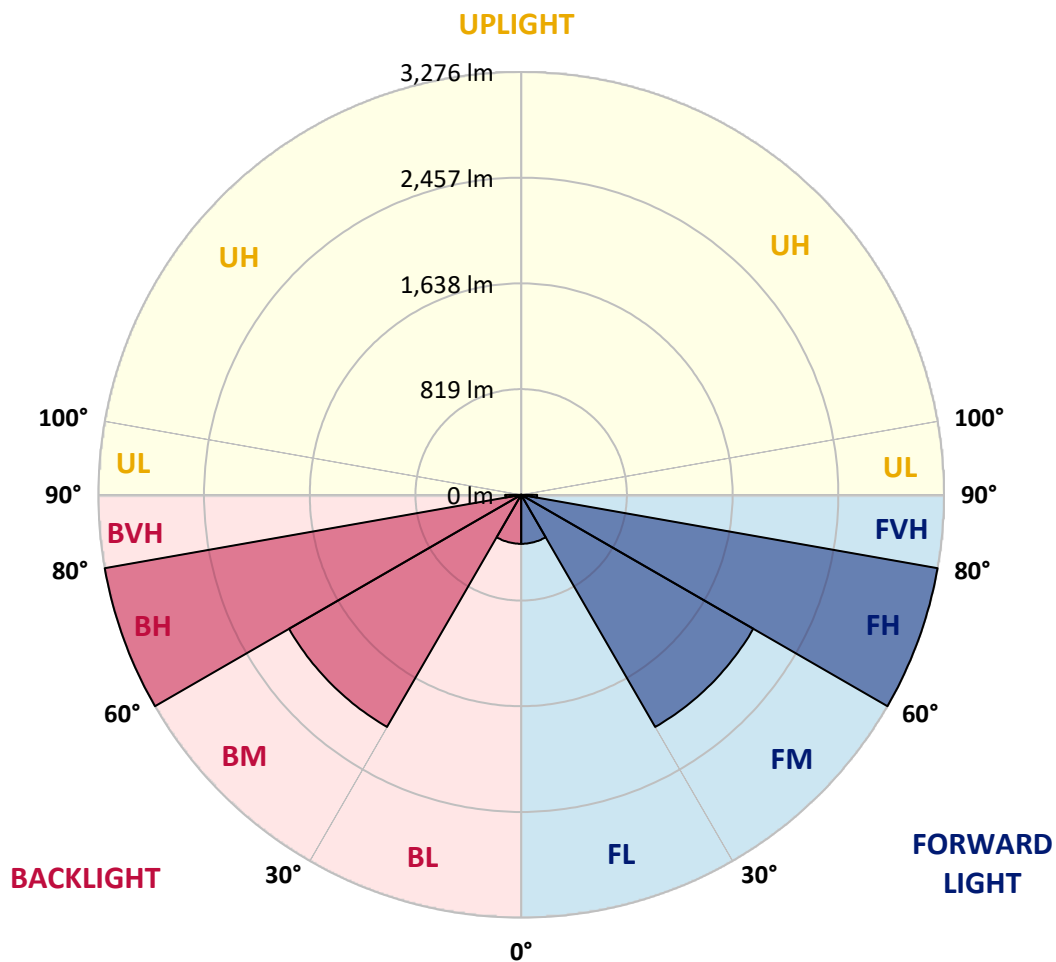
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	379.7	3.2			
FM	(30°-60°)	2076.8	17.7			
FH	(60°-80°)	3276.3	28.0			G2/5000
FVH	(80°-90°)	123.7	1.1			G2/225
BL	(0°-30°)	379.7	3.2	B1/500		
BM	(30°-60°)	2076.8	17.7	B2/2500		
BH	(60°-80°)	3276.3	28.0	B4/5000		G2/5000
BVH	(80°-90°)	123.7	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°	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5
2.5°	829.5	830.0	830.5	830.0	830.0	829.5	828.9	829.5	828.9	827.9	828.4
5°	832.1	833.2	833.2	832.1	832.7	832.1	831.1	831.6	830.5	828.9	828.9
7.5°	835.4	835.9	835.9	834.8	835.4	834.3	833.2	832.7	831.6	829.5	827.9
10°	840.2	840.7	840.2	839.1	839.1	837.5	834.8	833.8	831.6	828.4	826.8
12.5°	845.6	846.1	845.6	844.5	844.0	841.3	839.1	837.5	835.9	833.2	830.5
15°	853.1	854.2	853.1	851.0	849.3	847.2	846.1	846.7	847.2	845.0	842.4
17.5°	867.1	867.6	866.0	861.2	859.0	856.9	856.9	857.9	859.5	858.5	855.8
20°	892.9	891.2	887.5	881.6	878.9	875.1	874.6	875.1	875.1	874.6	872.4
22.5°	925.1	924.0	919.2	911.7	907.9	905.7	902.5	899.8	899.3	897.7	895.5
25°	963.8	963.2	957.3	950.9	948.2	945.5	942.8	939.1	935.8	932.1	929.9
27.5°	1013.2	1011.0	1002.4	999.2	995.5	993.9	990.1	985.8	983.1	978.3	975.6
30°	1067.4	1067.4	1060.5	1059.4	1059.4	1055.6	1051.3	1043.8	1039.0	1034.1	1032.5
32.5°	1121.7	1122.2	1115.3	1117.4	1119.0	1121.7	1122.8	1120.1	1116.9	1116.3	1113.1
35°	1200.1	1198.0	1191.0	1192.6	1192.1	1191.5	1191.5	1197.5	1198.5	1199.6	1193.2
37.5°	1297.4	1297.4	1290.4	1290.4	1287.2	1283.9	1279.6	1283.4	1289.3	1290.9	1286.6
40°	1408.6	1412.3	1403.7	1403.2	1404.3	1394.1	1389.2	1395.2	1398.9	1405.4	1400.5
42.5°	1539.7	1537.0	1528.4	1527.3	1521.4	1518.2	1513.9	1518.7	1524.6	1528.9	1530.5
45°	1665.4	1663.2	1653.6	1653.6	1647.6	1645.0	1647.1	1655.2	1657.9	1663.8	1669.7
47.5°	1789.5	1786.8	1780.3	1783.0	1783.6	1788.4	1795.4	1802.9	1810.4	1818.5	1821.2
50°	1916.3	1916.8	1909.8	1916.3	1924.3	1937.7	1956.5	1968.9	1984.5	1994.7	1997.9
52.5°	2031.8	2033.9	2041.4	2056.5	2072.6	2098.9	2131.1	2161.2	2187.0	2204.2	2203.1
55°	2170.4	2173.6	2191.8	2217.6	2244.0	2283.7	2331.5	2384.7	2427.7	2452.4	2436.8
57.5°	2347.6	2354.6	2375.0	2410.0	2449.2	2500.7	2566.3	2646.3	2712.9	2746.3	2721.0
60°	2591.0	2595.3	2620.0	2658.7	2706.0	2769.9	2857.5	2964.9	3058.9	3103.0	3074.0
62.5°	2911.7	2919.8	2939.6	2978.9	3027.2	3099.7	3206.6	3340.9	3458.1	3519.3	3453.8
65°	3294.7	3320.5	3337.2	3376.9	3422.1	3498.9	3610.6	3754.6	3880.3	3920.6	3844.9
67.5°	3674.0	3696.6	3725.6	3771.3	3816.9	3903.4	4007.1	4146.8	4284.8	4321.4	4203.7
70°	3840.0	3852.9	3898.0	3960.4	4047.9	4150.0	4269.8	4426.7	4597.5	4627.6	4478.2
72.5°	3507.5	3520.4	3570.9	3676.7	3829.3	3991.5	4200.5	4431.0	4656.6	4690.4	4484.7
75°	2652.8	2631.8	2706.5	2846.7	3052.5	3278.6	3570.9	3901.3	4227.4	4269.8	4024.3
77.5°	1371.0	1368.3	1424.7	1598.8	1844.3	2101.6	2423.4	2796.7	3115.9	3244.8	3044.9
80°	386.3	390.6	417.4	503.9	647.3	833.2	1084.6	1434.4	1695.5	1828.7	1716.9
82.5°	151.5	163.3	173.5	189.6	208.4	235.8	314.8	468.5	628.5	751.0	615.1
85°	54.3	58.0	82.2	97.2	98.8	104.2	118.7	138.6	167.1	199.3	163.9
87.5°	20.4	22.6	26.3	43.5	43.0	39.2	47.8	50.0	37.6	34.4	42.4
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°	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5
2.5°	827.3	827.9	827.9	828.4	828.9	828.9	830.0	830.0
5°	827.9	827.9	826.8	827.3	826.8	826.8	827.3	827.3
7.5°	826.8	826.2	825.2	824.6	823.6	823.6	823.6	823.6
10°	825.2	824.6	823.6	823.0	822.5	822.5	822.5	822.5
12.5°	829.5	827.9	826.8	826.2	826.2	826.2	826.2	826.2
15°	840.7	837.0	834.3	834.3	834.8	835.9	835.9	837.0
17.5°	854.7	850.4	847.7	845.6	846.7	848.3	849.3	850.4
20°	871.4	869.2	865.5	863.3	863.3	865.5	866.5	867.1
22.5°	894.5	892.9	891.2	888.6	888.6	889.6	891.8	891.8
25°	928.8	927.8	926.7	924.5	924.0	924.0	925.1	926.2
27.5°	971.8	972.4	971.3	970.8	969.1	968.6	970.2	969.7
30°	1029.3	1032.0	1034.7	1032.5	1029.8	1028.2	1026.6	1024.5
32.5°	1107.2	1104.0	1101.8	1098.1	1093.2	1088.9	1085.7	1082.0
35°	1180.8	1175.4	1173.3	1176.5	1176.0	1173.3	1169.5	1166.3
37.5°	1271.1	1270.0	1271.1	1277.0	1275.9	1278.6	1271.1	1270.5
40°	1384.9	1386.0	1393.5	1400.5	1404.3	1408.0	1403.7	1399.4
42.5°	1517.1	1516.6	1519.2	1528.9	1535.4	1539.7	1530.5	1529.5
45°	1656.8	1653.0	1655.2	1663.2	1669.7	1674.5	1664.3	1664.3
47.5°	1810.4	1804.0	1797.0	1806.1	1809.9	1813.1	1805.0	1802.4
50°	1981.8	1968.4	1953.3	1957.1	1957.1	1956.0	1945.8	1945.3
52.5°	2178.4	2153.7	2126.3	2116.1	2110.2	2103.7	2086.0	2077.4
55°	2404.6	2367.5	2324.5	2298.2	2284.2	2266.5	2237.0	2228.9
57.5°	2668.9	2610.9	2536.7	2504.5	2473.3	2444.3	2411.6	2402.4
60°	2982.1	2896.7	2798.4	2738.7	2704.9	2677.0	2643.1	2641.5
62.5°	3331.3	3196.4	3085.2	3031.5	3006.8	2982.1	2949.9	2954.2
65°	3686.4	3545.6	3441.4	3397.9	3374.8	3354.4	3322.1	3327.0
67.5°	4036.6	3907.2	3792.7	3748.2	3722.4	3696.6	3667.6	3672.4
70°	4288.1	4127.4	3998.5	3899.7	3837.9	3768.0	3722.9	3711.6
72.5°	4216.1	3968.4	3763.7	3567.7	3452.7	3359.2	3295.8	3268.4
75°	3648.8	3310.3	3047.1	2806.4	2671.0	2560.9	2480.9	2430.9
77.5°	2709.7	2329.4	2018.3	1741.1	1521.9	1374.7	1271.1	1203.9
80°	1483.3	1128.2	824.6	579.7	426.0	354.0	312.7	292.8
82.5°	462.0	298.2	219.7	189.6	176.2	168.7	156.3	136.5
85°	147.2	128.9	119.8	114.4	109.1	95.1	65.5	59.6
87.5°	56.9	58.6	58.0	54.8	55.9	40.3	32.2	28.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)