

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: McGRAW-EDISON

Report Number: P190790

Luminaire Tested: **GLEON-AF-02-LED-E1-5MQ-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190790
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-5MQ-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8622.5 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

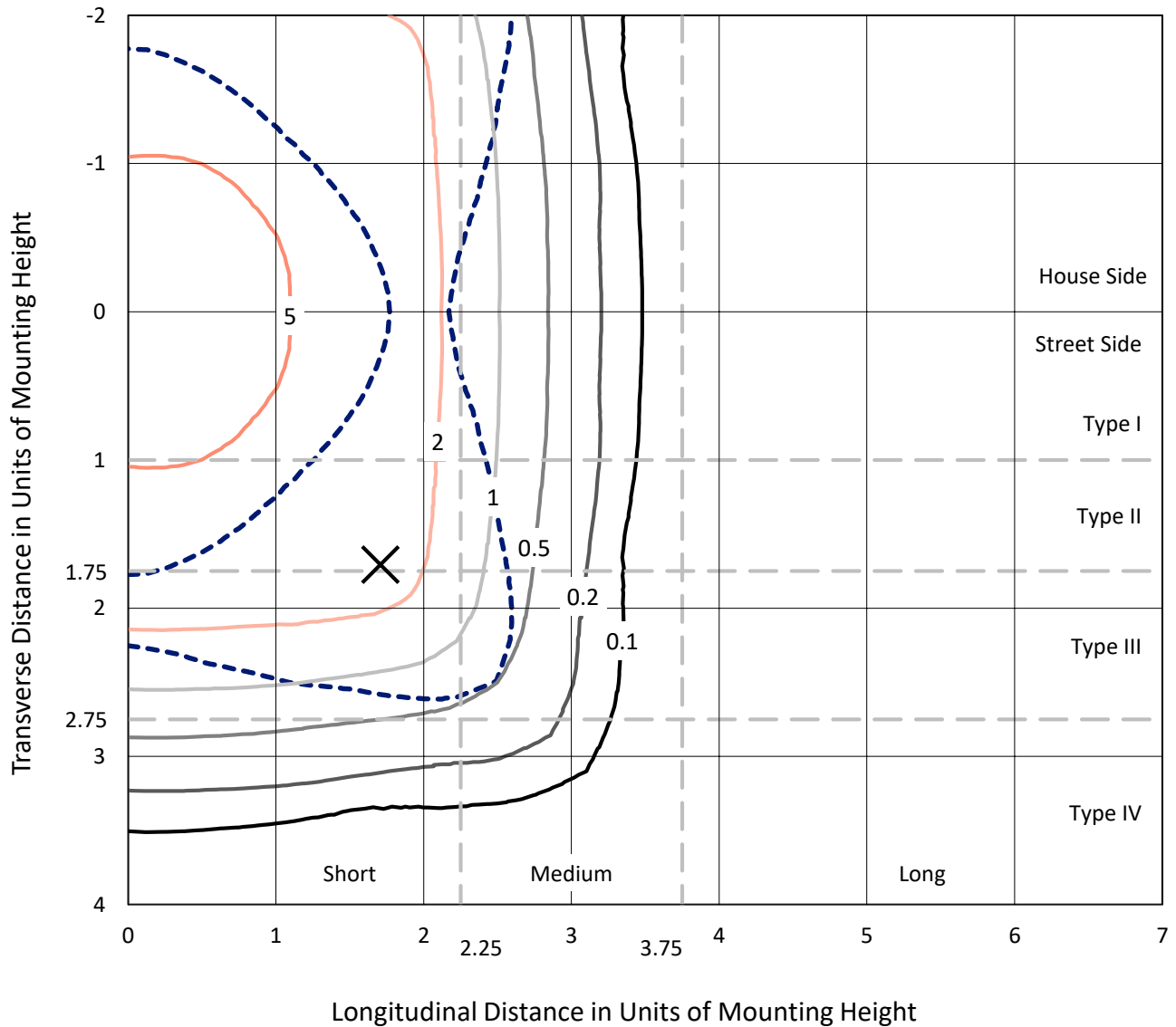
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

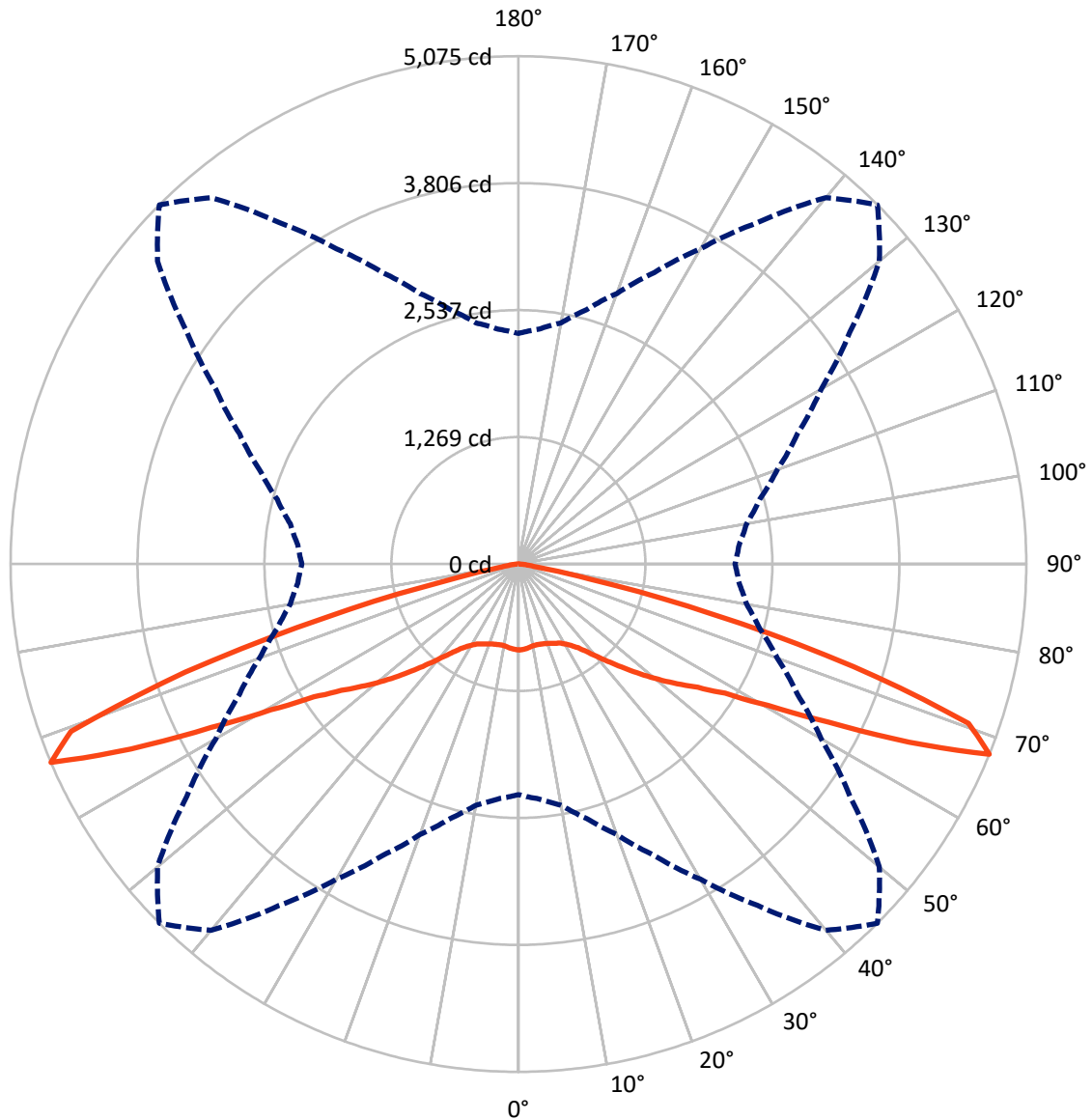
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4311.2	0.0	4311.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4311.2	0.0	4311.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	8622.5	0.0	8622.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.4	0.9
10°-20°	233.4	2.7
20°-30°	396.7	4.6
30°-40°	648.5	7.5
40°-50°	1157.7	13.4
50°-60°	1952.0	22.6
60°-70°	3029.2	35.1
70°-80°	1064.3	12.3
80°-90°	60.1	0.7
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°	8622.5	100.0
0°-180°	8622.5	100.0

Coefficient of Utilization



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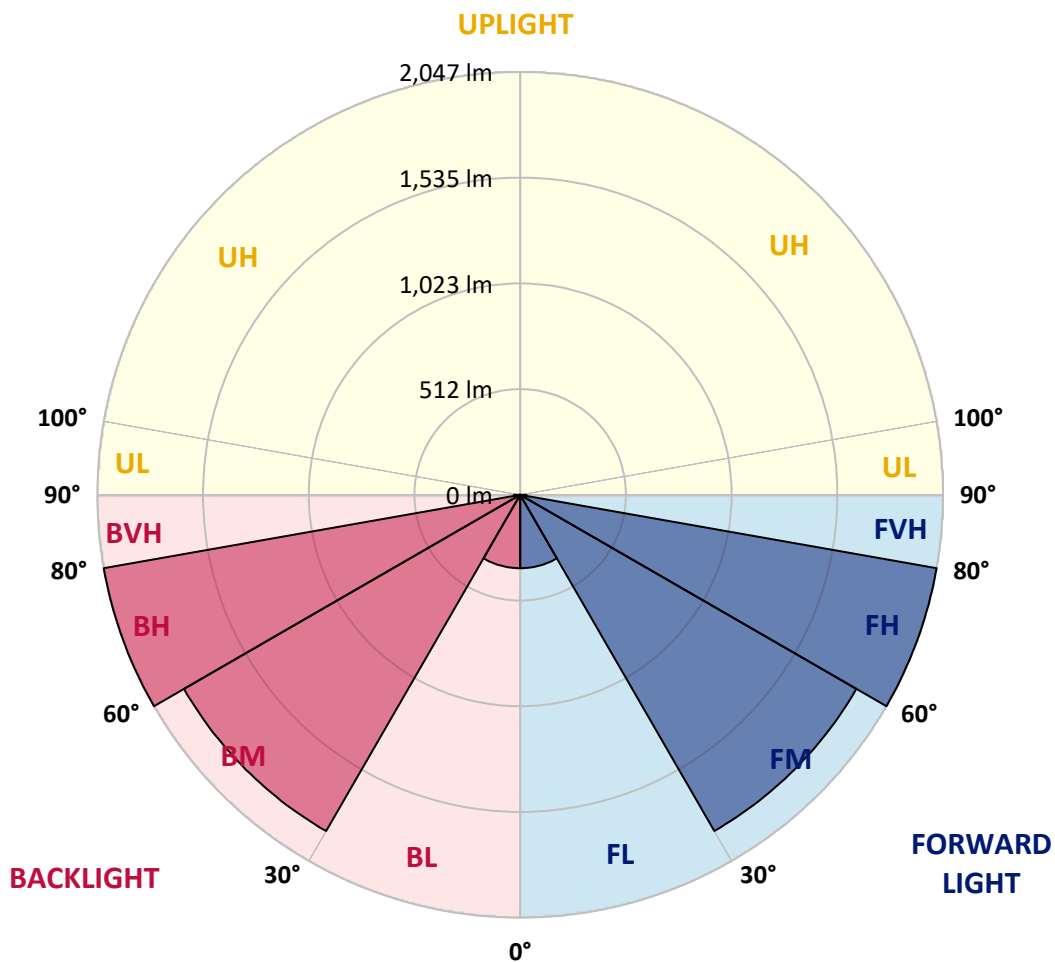
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	355.3	4.1			
FM	(30°-60°)	1879.1	21.8			
FH	(60°-80°)	2046.8	23.7			G2/5000
FVH	(80°-90°)	30.1	0.3			G1/100
BL	(0°-30°)	355.3	4.1	B1/500		
BM	(30°-60°)	1879.1	21.8	B2/2500		
BH	(60°-80°)	2046.8	23.7	B3/2500		G2/5000
BVH	(80°-90°)	30.1	0.3			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°	859.3	859.3	859.3	859.3	859.3	859.3	859.3	859.3	859.3	859.3	859.3
2.5°	856.1	856.9	856.9	856.9	856.5	856.5	855.7	856.5	856.1	854.9	855.3
5°	848.9	849.8	849.8	849.4	850.6	850.2	848.9	849.8	849.4	848.5	848.9
7.5°	838.6	839.8	839.8	839.4	840.7	840.3	839.4	839.8	839.8	838.6	838.6
10°	827.2	828.0	828.0	827.6	829.5	829.5	829.1	830.3	830.7	829.5	828.7
12.5°	816.4	817.6	817.6	819.2	821.2	821.9	824.0	825.5	827.2	826.7	825.1
15°	810.1	810.9	812.4	814.5	817.6	820.4	823.6	827.2	830.3	831.1	828.7
17.5°	806.1	807.3	809.7	812.4	816.8	821.6	826.3	831.1	835.4	837.1	834.3
20°	805.0	805.8	808.1	812.8	818.8	825.9	832.7	838.2	844.2	846.2	844.2
22.5°	807.3	808.9	811.7	817.2	825.1	834.3	842.2	849.8	857.2	860.8	858.1
25°	818.1	819.6	823.2	830.3	839.0	848.5	857.6	866.4	873.2	876.7	874.7
27.5°	837.9	839.8	844.2	851.3	860.8	871.1	881.1	888.2	893.8	895.0	892.5
30°	867.6	872.0	877.1	885.1	896.1	904.9	914.8	921.2	927.8	927.8	925.9
32.5°	914.0	918.3	923.9	931.4	940.2	949.7	958.4	963.9	971.1	971.5	966.7
35°	983.4	985.4	990.1	994.9	1002.8	1011.1	1018.7	1022.2	1028.2	1028.6	1024.2
37.5°	1075.0	1075.3	1078.5	1080.1	1087.3	1096.4	1103.6	1105.9	1111.4	1110.6	1106.3
40°	1181.6	1183.7	1184.8	1187.2	1194.7	1203.4	1211.0	1212.2	1218.1	1216.9	1211.4
42.5°	1305.0	1305.8	1312.4	1316.0	1323.2	1327.6	1337.1	1338.2	1345.4	1342.2	1335.9
45°	1443.4	1450.4	1456.8	1463.9	1471.5	1476.6	1484.2	1482.6	1487.4	1482.6	1479.0
47.5°	1588.8	1594.1	1608.3	1619.4	1631.7	1636.0	1646.7	1642.0	1646.7	1640.0	1638.9
50°	1749.0	1758.1	1770.4	1783.2	1796.2	1803.4	1817.3	1811.3	1817.7	1811.3	1807.8
52.5°	1906.9	1909.2	1936.2	1954.9	1973.1	1981.5	1989.7	1987.0	1987.4	1987.0	1983.4
55°	2056.7	2062.3	2089.3	2114.6	2146.4	2169.8	2184.0	2182.5	2178.9	2175.3	2169.4
57.5°	2225.6	2231.3	2262.2	2293.5	2329.6	2362.9	2391.9	2421.5	2433.1	2436.3	2423.2
60°	2454.1	2453.6	2494.9	2533.0	2584.5	2634.1	2697.5	2762.2	2836.3	2870.8	2825.2
62.5°	2686.5	2696.0	2755.4	2822.8	2929.1	3032.6	3149.6	3264.5	3382.0	3477.5	3375.9
65°	2658.6	2695.2	2783.6	2936.3	3132.5	3365.7	3617.9	3884.8	4125.8	4291.6	4105.6
67.5°	2304.2	2356.2	2446.2	2631.7	2877.2	3213.4	3636.9	4164.6	4778.1	5074.7	4707.1
70°	1670.2	1728.8	1823.2	2004.4	2247.5	2567.1	3027.0	3660.7	4472.8	4771.8	4366.9
72.5°	831.1	862.9	921.2	1036.6	1220.5	1479.8	1897.0	2506.0	3224.5	3498.9	3129.0
75°	282.3	297.0	306.9	344.5	402.8	504.7	712.2	1095.6	1671.3	2003.7	1647.6
77.5°	163.0	163.4	170.1	176.9	186.8	197.8	225.7	296.2	512.3	727.6	530.2
80°	105.5	105.1	110.6	115.8	122.5	128.1	129.7	137.2	158.3	187.5	167.8
82.5°	54.7	61.5	73.8	80.5	93.2	95.5	92.4	89.6	94.7	98.3	100.8
85°	30.2	26.2	39.3	50.7	56.3	57.1	57.1	53.9	56.0	54.7	59.4
87.5°	13.9	12.7	15.4	25.0	26.6	22.6	23.8	21.0	15.0	14.6	16.7
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°	859.3	859.3	859.3	859.3	859.3	859.3	859.3	859.3
2.5°	855.3	855.7	855.7	856.9	857.2	858.1	858.9	859.3
5°	848.5	849.8	848.9	850.2	850.2	850.9	850.9	851.3
7.5°	838.6	839.8	839.8	839.8	839.4	840.7	840.7	840.7
10°	828.4	829.1	828.7	828.0	827.2	828.4	828.0	827.6
12.5°	825.1	823.2	821.6	820.8	819.2	819.6	818.5	818.5
15°	827.2	823.6	820.8	819.6	818.1	817.2	816.4	816.8
17.5°	832.3	828.0	824.4	822.4	820.4	819.2	817.6	818.1
20°	841.4	836.3	831.1	827.2	823.6	821.6	820.4	820.0
22.5°	854.9	847.4	839.8	833.9	829.1	826.3	825.1	824.4
25°	870.3	862.0	853.3	846.6	841.8	838.2	835.9	835.9
27.5°	889.8	883.0	875.1	867.2	862.9	859.3	857.6	856.9
30°	922.3	916.0	909.6	902.0	896.5	892.9	890.2	887.8
32.5°	963.9	958.8	953.6	948.1	943.0	938.1	933.9	931.8
35°	1022.6	1018.7	1015.1	1008.7	1006.8	1004.0	1001.6	999.6
37.5°	1103.6	1101.9	1101.9	1095.2	1093.6	1092.4	1090.1	1090.5
40°	1209.7	1211.4	1209.4	1207.0	1205.9	1202.7	1202.7	1205.4
42.5°	1335.5	1336.7	1341.1	1337.1	1341.4	1337.5	1335.1	1337.1
45°	1481.4	1485.7	1494.5	1490.5	1493.3	1486.6	1478.3	1478.7
47.5°	1645.2	1649.1	1652.7	1649.9	1650.3	1639.2	1628.1	1625.4
50°	1815.3	1816.9	1818.8	1814.9	1815.6	1803.4	1790.7	1791.1
52.5°	1983.4	1991.0	1998.8	1988.2	1985.8	1971.9	1954.0	1946.9
55°	2175.7	2186.5	2177.4	2158.6	2140.0	2121.4	2098.0	2094.1
57.5°	2412.8	2394.6	2366.1	2330.8	2305.0	2278.8	2255.0	2245.1
60°	2742.7	2674.1	2622.6	2570.3	2537.3	2505.2	2473.9	2469.1
62.5°	3209.1	3090.5	2987.8	2879.5	2791.1	2722.2	2667.0	2651.6
65°	3793.5	3513.2	3270.2	3043.3	2846.3	2697.5	2603.9	2562.7
67.5°	4045.0	3491.3	3074.7	2752.7	2494.9	2314.9	2213.8	2163.4
70°	3554.4	2895.4	2442.2	2119.8	1885.1	1693.2	1601.5	1547.6
72.5°	2445.4	1841.8	1456.5	1188.8	1001.3	840.7	777.1	772.4
75°	1097.9	727.2	501.2	386.2	325.2	282.7	269.6	259.7
77.5°	307.3	227.2	202.6	189.6	176.9	162.1	156.6	157.8
80°	149.5	141.2	135.6	127.3	115.8	103.5	97.9	100.4
82.5°	99.1	97.9	101.5	95.5	78.9	67.0	56.3	51.6
85°	60.3	61.1	62.3	62.6	53.1	37.2	25.4	28.5
87.5°	23.8	27.3	29.8	30.9	28.9	17.8	14.3	14.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)