

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: P200542

Luminaire Tested: **GPC-AF-02-LED-E1-5MQ-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200542
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: GPC-AF-02-LED-E1-5MQ-8030-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8604 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

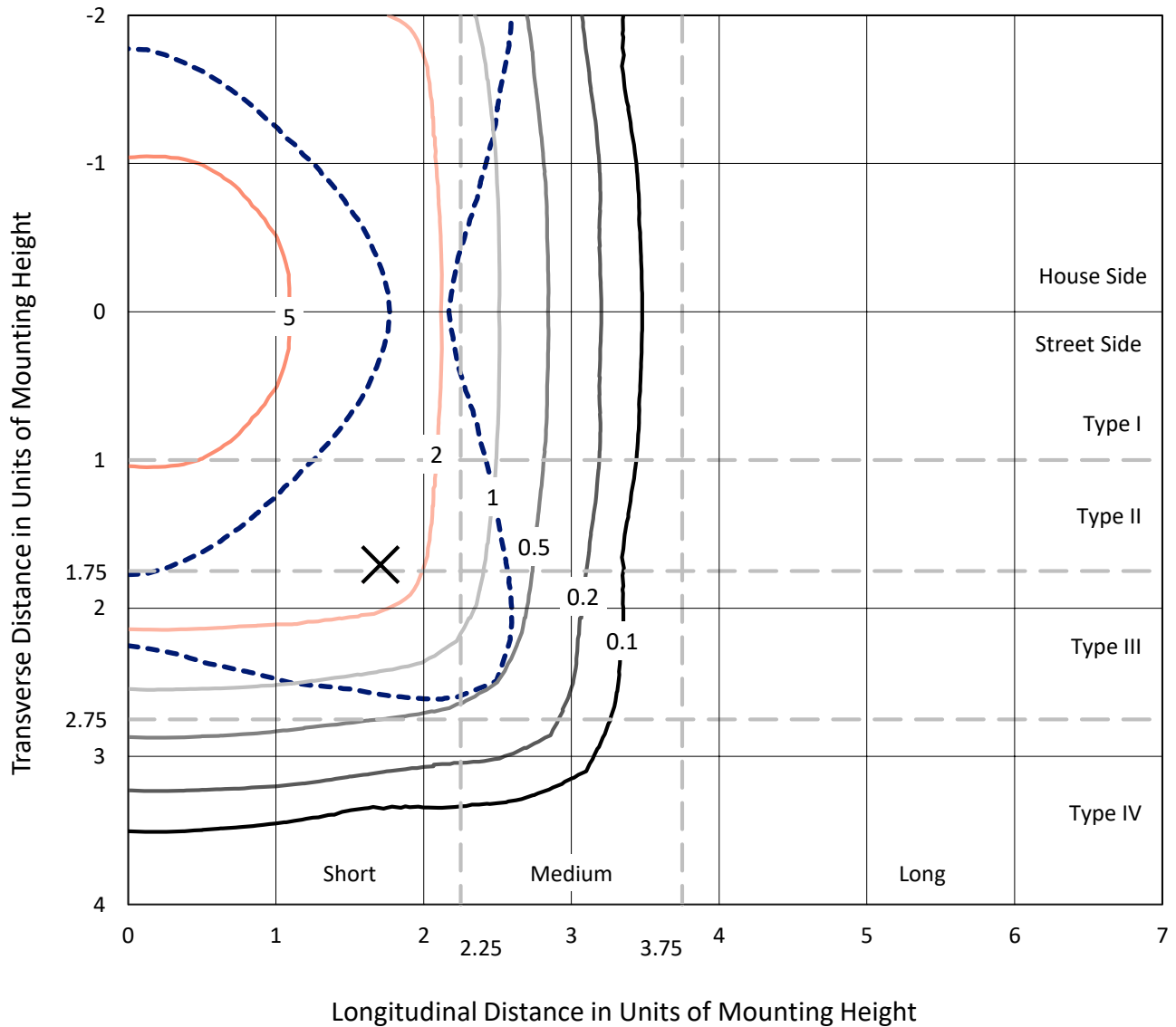
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

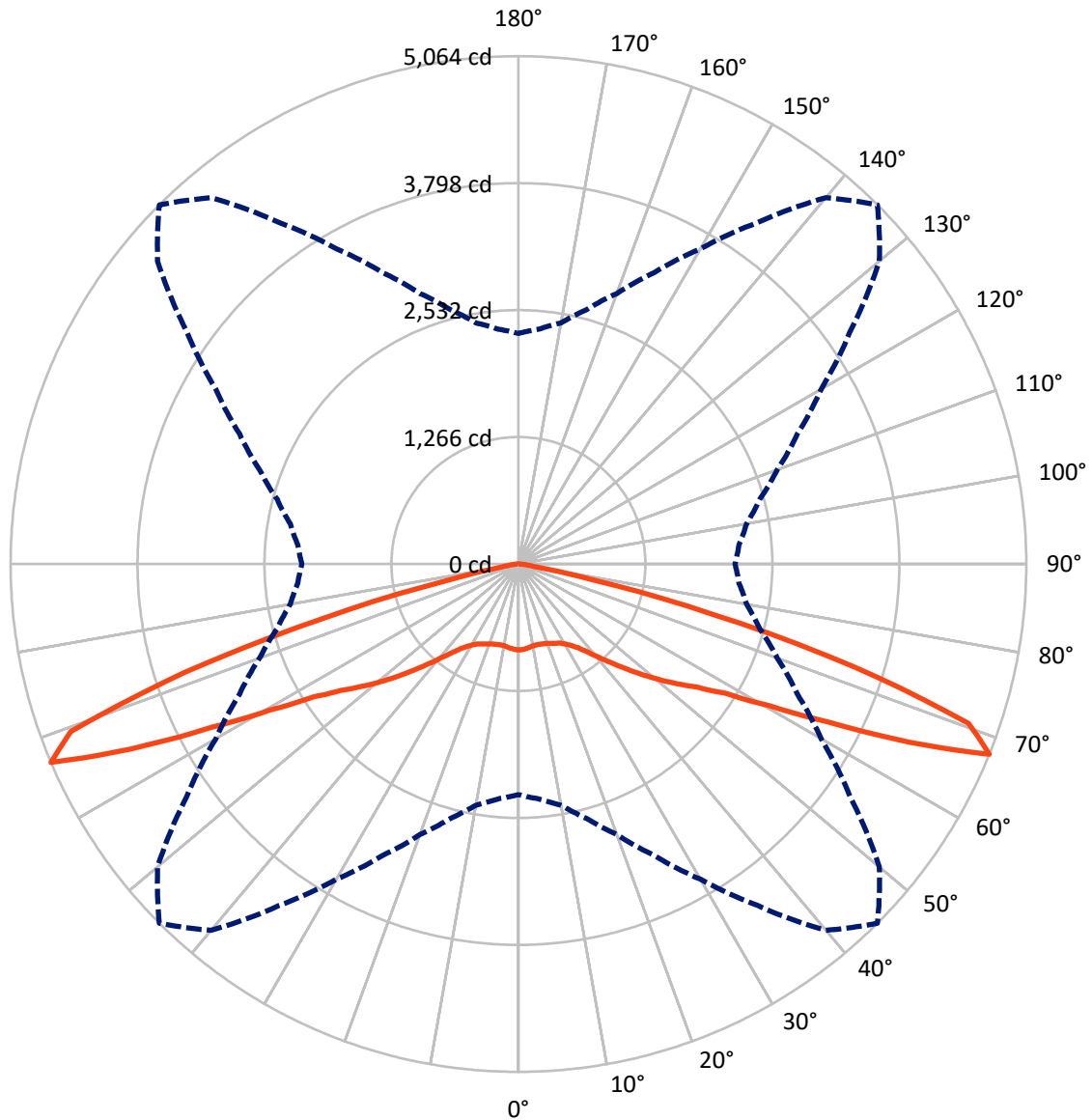
✕ Max cd
 - - - 1/2 Max cd



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	4302.0	0.0	4302.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4302.0	0.0	4302.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8604.0	0.0	8604.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.2	0.9
10°-20°	232.9	2.7
20°-30°	395.9	4.6
30°-40°	647.1	7.5
40°-50°	1155.3	13.4
50°-60°	1947.8	22.6
60°-70°	3022.7	35.1
70°-80°	1062.0	12.3
80°-90°	60.0	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°	8604.0	100.0
0°-180°	8604.0	100.0



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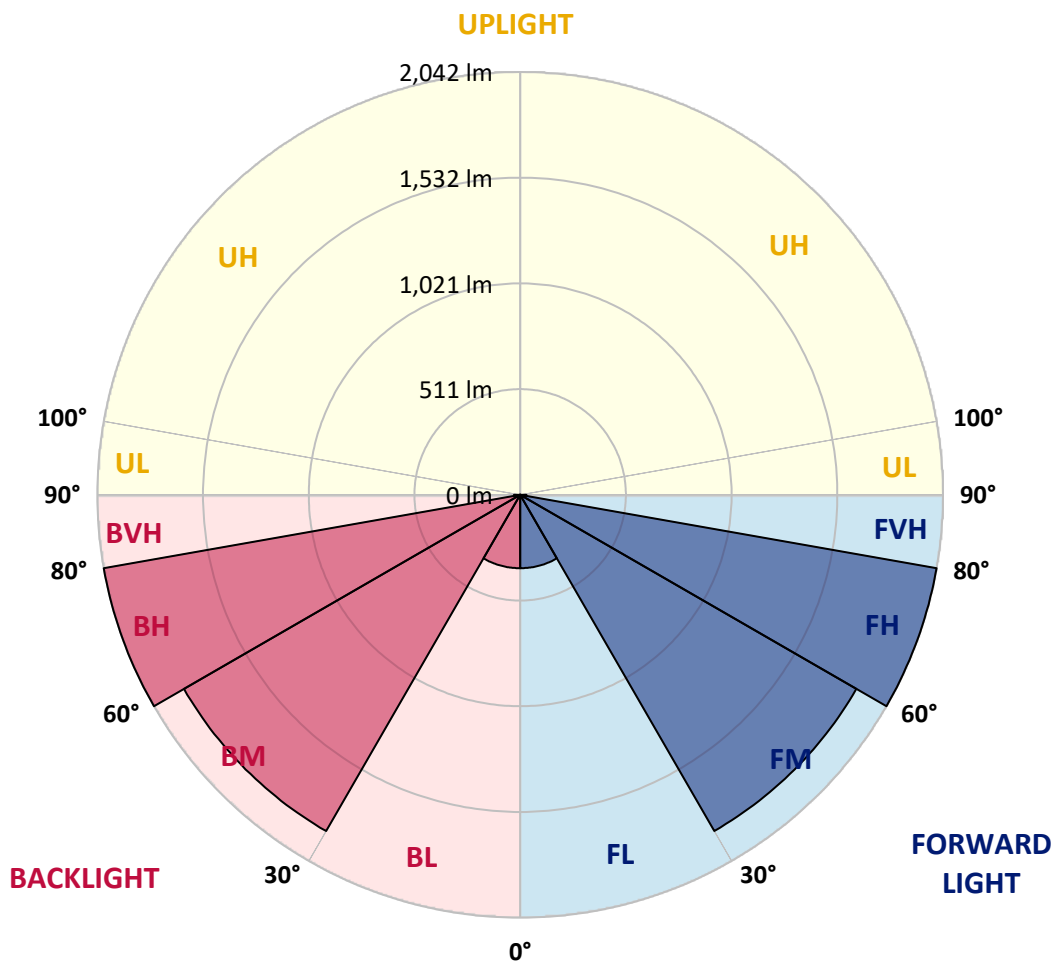
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	354.5	4.1			
FM (30°-60°)	1875.1	21.8			
FH (60°-80°)	2042.4	23.7			G2/5000
FVH (80°-90°)	30.0	0.3			G1/100
BL (0°-30°)	354.5	4.1	B1/500		
BM (30°-60°)	1875.1	21.8	B2/2500		
BH (60°-80°)	2042.4	23.7	B3/2500		G2/5000
BVH (80°-90°)	30.0	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°	857.4	857.4	857.4	857.4	857.4	857.4	857.4	857.4	857.4	857.4	857.4
2.5°	854.3	855.1	855.1	855.1	854.7	854.7	853.9	854.7	854.3	853.1	853.5
5°	847.1	847.9	847.9	847.5	848.7	848.3	847.1	847.9	847.5	846.7	847.1
7.5°	836.8	838.0	838.0	837.6	838.8	838.4	837.6	838.0	838.0	836.8	836.8
10°	825.4	826.2	826.2	825.8	827.7	827.7	827.4	828.5	828.9	827.7	827.0
12.5°	814.7	815.9	815.9	817.5	819.4	820.2	822.2	823.8	825.4	825.0	823.4
15°	808.4	809.2	810.7	812.7	815.9	818.6	821.8	825.4	828.5	829.3	827.0
17.5°	804.4	805.6	808.0	810.7	815.1	819.8	824.6	829.3	833.7	835.3	832.5
20°	803.2	804.0	806.4	811.1	817.1	824.2	830.9	836.5	842.4	844.4	842.4
22.5°	805.6	807.2	809.9	815.5	823.4	832.5	840.4	847.9	855.4	859.0	856.2
25°	816.3	817.9	821.4	828.5	837.2	846.7	855.8	864.5	871.3	874.8	872.9
27.5°	836.1	838.0	842.4	849.5	859.0	869.3	879.2	886.3	891.8	893.0	890.7
30°	865.7	870.1	875.2	883.1	894.2	902.9	912.8	919.1	925.9	925.9	923.9
32.5°	912.0	916.4	921.9	929.4	938.1	947.6	956.3	961.9	969.0	969.4	964.7
35°	981.3	983.2	988.0	992.7	1000.7	1009.0	1016.5	1020.0	1026.0	1026.4	1022.0
37.5°	1072.7	1073.1	1076.2	1077.8	1084.9	1094.0	1101.2	1103.5	1109.1	1108.3	1103.9
40°	1179.1	1181.1	1182.3	1184.6	1192.2	1200.9	1208.4	1209.6	1215.5	1214.3	1208.8
42.5°	1302.2	1303.0	1309.7	1313.2	1320.4	1324.7	1334.2	1335.4	1342.5	1339.4	1333.0
45°	1440.3	1447.4	1453.7	1460.8	1468.3	1473.5	1481.0	1479.4	1484.2	1479.4	1475.9
47.5°	1585.5	1590.6	1604.9	1615.9	1628.2	1632.5	1643.2	1638.5	1643.2	1636.5	1635.3
50°	1745.3	1754.4	1766.7	1779.3	1792.4	1799.5	1813.4	1807.4	1813.8	1807.4	1803.9
52.5°	1902.8	1905.2	1932.1	1950.7	1968.9	1977.2	1985.5	1982.7	1983.1	1982.7	1979.2
55°	2052.4	2057.9	2084.8	2110.1	2141.8	2165.1	2179.4	2177.8	2174.2	2170.7	2164.7
57.5°	2220.9	2226.5	2257.3	2288.6	2324.6	2357.8	2386.7	2416.4	2427.9	2431.0	2418.0
60°	2448.8	2448.4	2489.6	2527.6	2579.0	2628.5	2691.8	2756.3	2830.3	2864.7	2819.2
62.5°	2680.7	2690.2	2749.5	2816.8	2922.8	3026.1	3142.8	3257.6	3374.7	3470.1	3368.8
65°	2653.0	2689.4	2777.6	2930.0	3125.8	3358.5	3610.1	3876.4	4117.0	4282.4	4096.8
67.5°	2299.3	2351.1	2440.9	2626.1	2871.0	3206.5	3629.1	4155.8	4767.9	5063.8	4697.0
70°	1666.6	1725.1	1819.3	2000.1	2242.7	2561.6	3020.6	3652.9	4463.2	4761.5	4357.6
72.5°	829.3	861.0	919.1	1034.3	1217.9	1476.7	1892.9	2500.7	3217.6	3491.4	3122.3
75°	281.7	296.4	306.3	343.8	402.0	503.7	710.6	1093.2	1667.8	1999.3	1644.0
77.5°	162.6	163.0	169.7	176.5	186.4	197.4	225.1	295.6	511.2	726.1	529.0
80°	105.2	104.9	110.4	115.5	122.3	127.8	129.4	136.9	157.9	187.2	167.4
82.5°	54.6	61.3	73.6	80.3	93.0	95.4	92.2	89.4	94.6	98.1	100.5
85°	30.1	26.1	39.2	50.6	56.2	57.0	57.0	53.8	55.8	54.6	59.4
87.5°	13.8	12.7	15.4	24.9	26.5	22.6	23.7	21.0	15.0	14.6	16.6
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°	857.4	857.4	857.4	857.4	857.4	857.4	857.4	857.4
2.5°	853.5	853.9	853.9	855.1	855.4	856.2	857.0	857.4
5°	846.7	847.9	847.1	848.3	848.3	849.1	849.1	849.5
7.5°	836.8	838.0	838.0	838.0	837.6	838.8	838.8	838.8
10°	826.6	827.4	827.0	826.2	825.4	826.6	826.2	825.8
12.5°	823.4	821.4	819.8	819.0	817.5	817.9	816.7	816.7
15°	825.4	821.8	819.0	817.9	816.3	815.5	814.7	815.1
17.5°	830.5	826.2	822.6	820.6	818.6	817.5	815.9	816.3
20°	839.6	834.5	829.3	825.4	821.8	819.8	818.6	818.3
22.5°	853.1	845.6	838.0	832.1	827.4	824.6	823.4	822.6
25°	868.5	860.2	851.5	844.8	840.0	836.5	834.1	834.1
27.5°	887.9	881.2	873.3	865.3	861.0	857.4	855.8	855.1
30°	920.3	914.0	907.7	900.2	894.6	891.1	888.3	885.9
32.5°	961.9	956.7	951.6	946.1	940.9	936.2	931.8	929.8
35°	1020.4	1016.5	1012.9	1006.6	1004.6	1001.8	999.5	997.5
37.5°	1101.2	1099.6	1099.6	1092.9	1091.3	1090.1	1087.7	1088.1
40°	1207.2	1208.8	1206.8	1204.4	1203.2	1200.1	1200.1	1202.8
42.5°	1332.6	1333.8	1338.2	1334.2	1338.6	1334.6	1332.2	1334.2
45°	1478.2	1482.6	1491.3	1487.3	1490.1	1483.4	1475.1	1475.5
47.5°	1641.7	1645.6	1649.2	1646.4	1646.8	1635.7	1624.6	1621.9
50°	1811.4	1813.0	1815.0	1811.0	1811.8	1799.5	1786.9	1787.3
52.5°	1979.2	1986.7	1994.6	1983.9	1981.5	1967.7	1949.9	1942.8
55°	2171.1	2181.7	2172.6	2154.0	2135.5	2116.9	2093.5	2089.6
57.5°	2407.7	2389.5	2361.0	2325.8	2300.1	2273.9	2250.2	2240.3
60°	2736.9	2668.4	2617.0	2564.8	2531.9	2499.9	2468.6	2463.9
62.5°	3202.2	3083.9	2981.4	2873.4	2785.1	2716.3	2661.3	2645.9
65°	3785.4	3505.7	3263.1	3036.8	2840.1	2691.8	2598.4	2557.2
67.5°	4036.3	3483.9	3068.1	2746.8	2489.6	2309.9	2209.0	2158.8
70°	3546.8	2889.2	2437.0	2115.3	1881.0	1689.5	1598.1	1544.3
72.5°	2440.1	1837.9	1453.3	1186.2	999.1	838.8	775.5	770.8
75°	1095.6	725.7	500.1	385.4	324.5	282.1	269.1	259.2
77.5°	306.6	226.7	202.2	189.1	176.5	161.8	156.3	157.5
80°	149.2	140.9	135.3	127.0	115.5	103.3	97.7	100.1
82.5°	98.9	97.7	101.3	95.4	78.7	66.9	56.2	51.4
85°	60.1	60.9	62.1	62.5	53.0	37.2	25.3	28.5
87.5°	23.7	27.3	29.7	30.9	28.9	17.8	14.2	14.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)