

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: P268972

Luminaire Tested: **GLEON-AF-01-LED-E1-5WQ-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268972  
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: MCGRAW-EDISON  
Catalog Number: GLEON-AF-01-LED-E1-5WQ-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6255.9 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G1

Input Watts (W): 67  
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

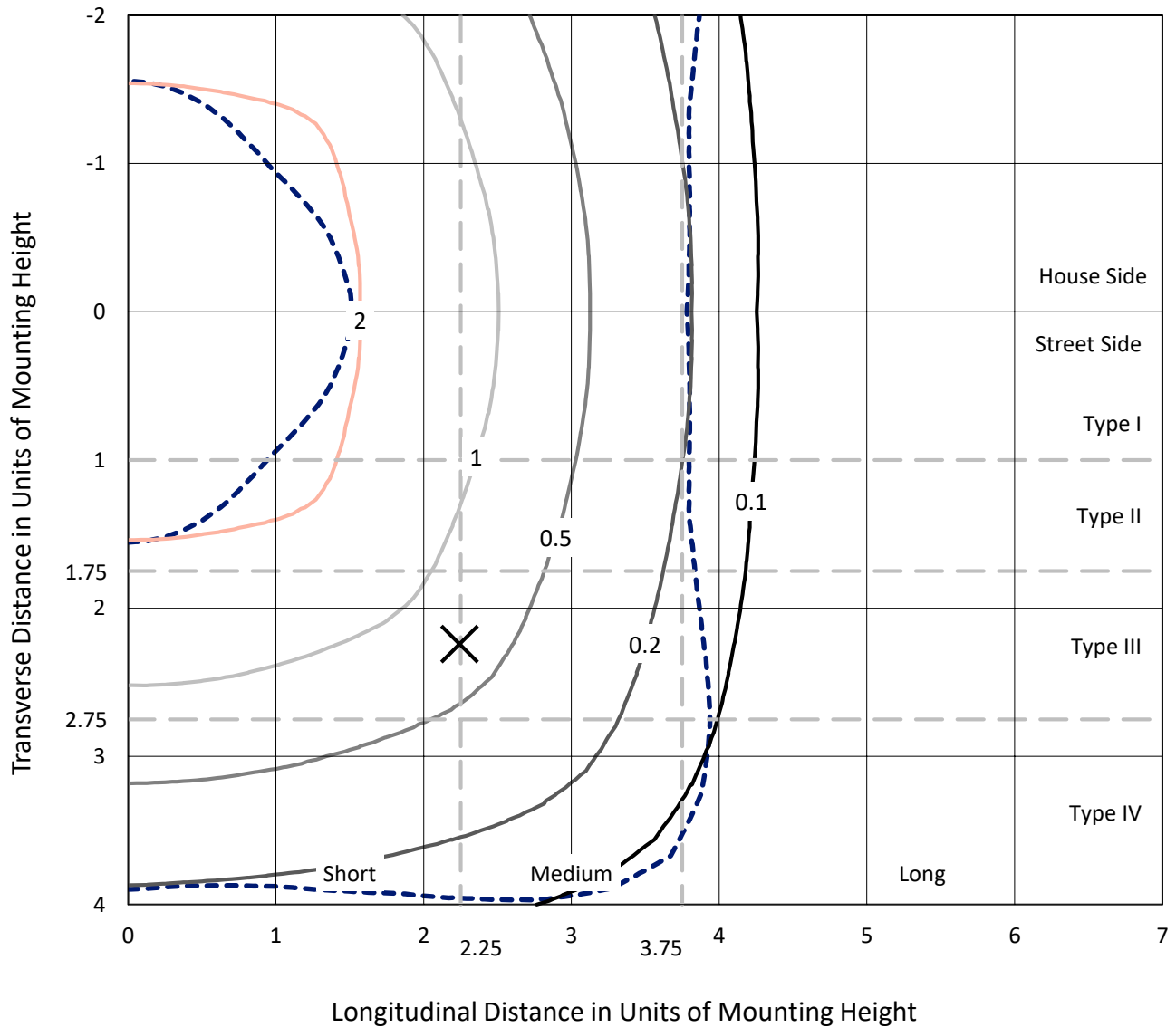


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

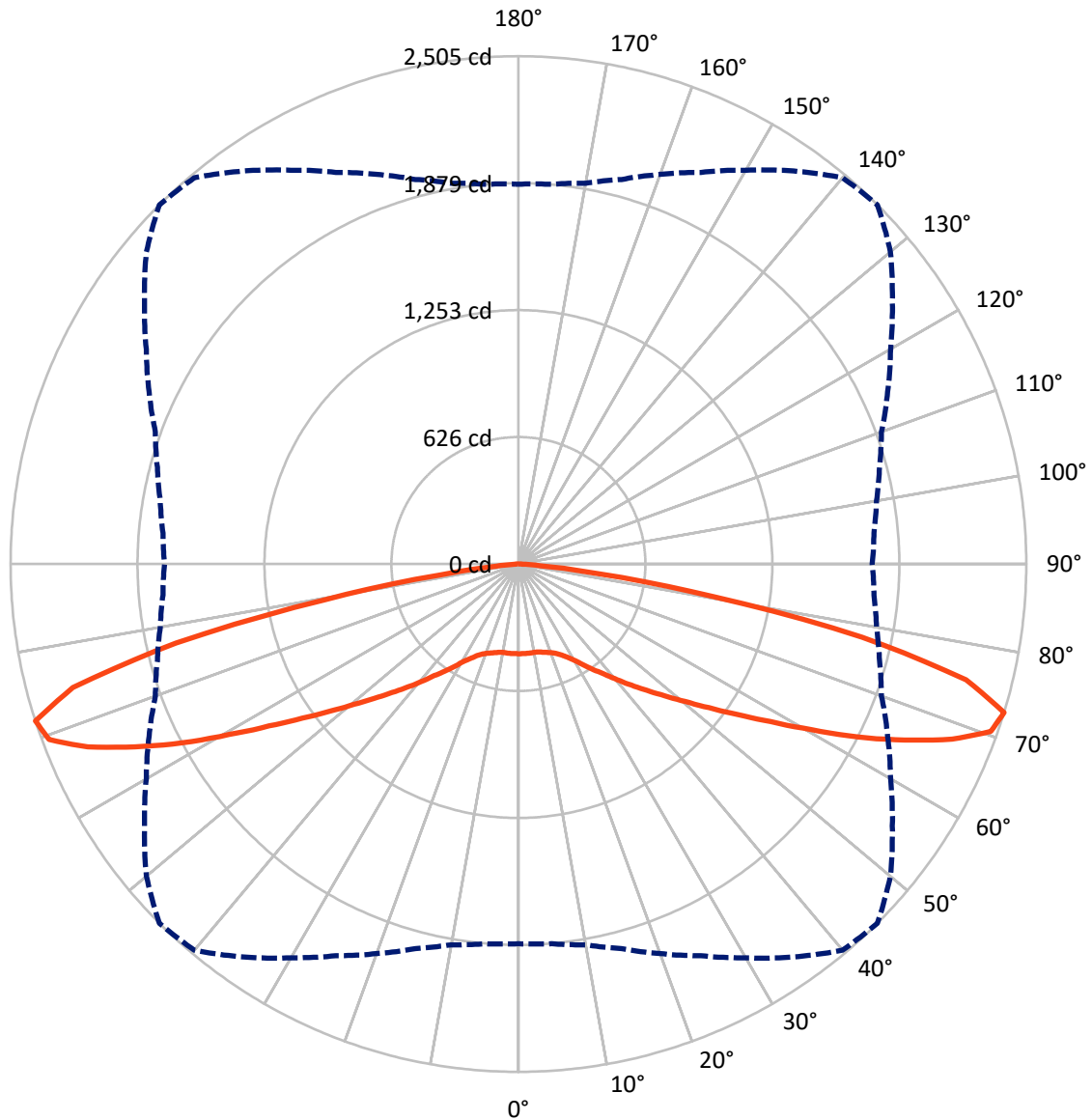


Based on 10 foot mounting height. Maximum calculated value = 4.4 fc  
 Type V - Short - Semi-Cutoff

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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
<b>House Side</b>	Lumens	3128.0	0.0	3128.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3128.0	0.0	3128.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6255.9	0.0	6255.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.3	0.7
10°-20°	128.5	2.1
20°-30°	234.8	3.8
30°-40°	404.8	6.5
40°-50°	692.0	11.1
50°-60°	1121.7	17.9
60°-70°	1860.8	29.7
70°-80°	1638.9	26.2
80°-90°	132.1	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°	6255.9	100.0
0°-180°	6255.9	100.0



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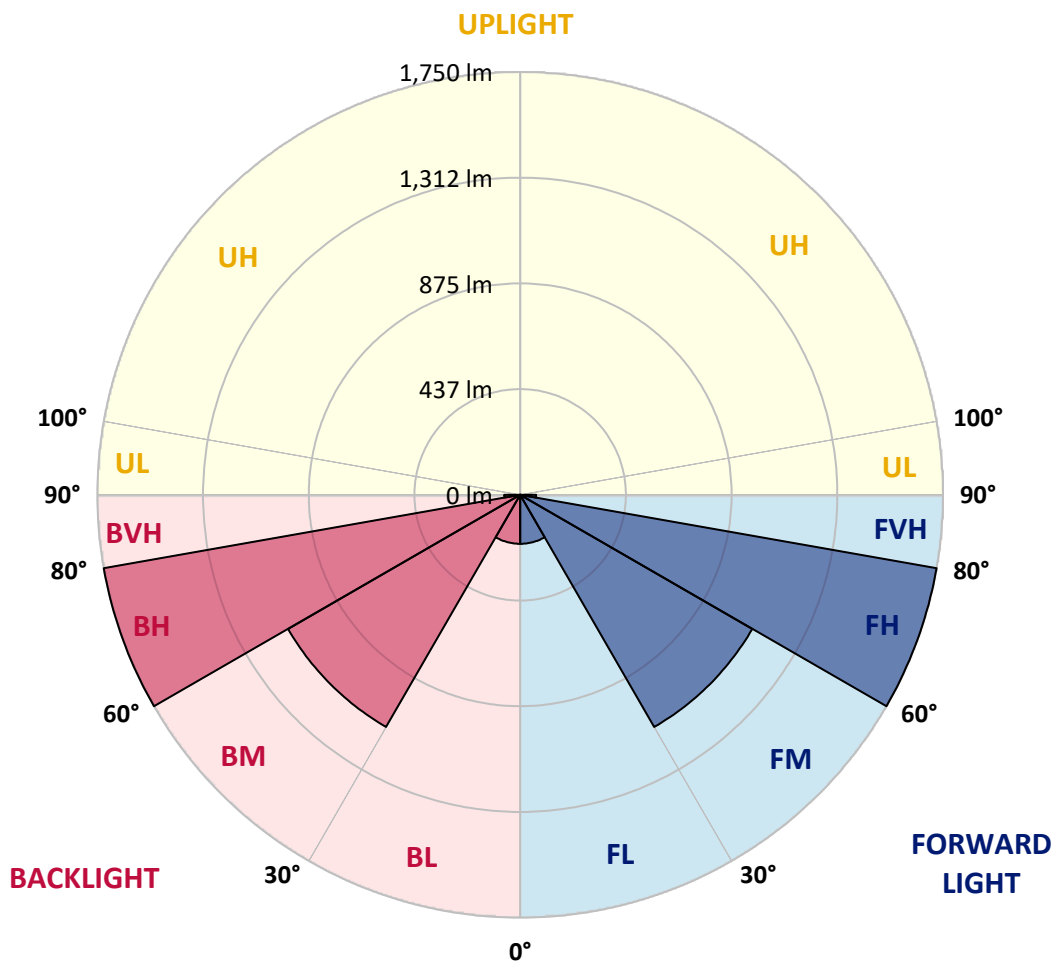
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	202.8	3.2			
FM	(30°-60°)	1109.3	17.7			
FH	(60°-80°)	1749.9	28.0			G1/1800
FVH	(80°-90°)	66.1	1.1			G1/100
BL	(0°-30°)	202.8	3.2	B1/500		
BM	(30°-60°)	1109.3	17.7	B2/2500		
BH	(60°-80°)	1749.9	28.0	B3/2500		G1/1800
BVH	(80°-90°)	66.1	1.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
2.5°	443.0	443.4	443.7	443.4	443.4	443.0	442.8	443.0	442.8	442.1	442.4
5°	444.4	445.0	445.0	444.4	444.8	444.4	443.9	444.1	443.7	442.8	442.8
7.5°	446.2	446.5	446.5	445.9	446.2	445.6	445.0	444.8	444.1	443.0	442.1
10°	448.8	449.1	448.8	448.2	448.2	447.4	445.9	445.3	444.1	442.4	441.5
12.5°	451.6	451.8	451.6	451.0	450.8	449.3	448.2	447.4	446.5	445.0	443.7
15°	455.6	456.2	455.6	454.5	453.6	452.4	451.8	452.1	452.4	451.4	450.0
17.5°	463.0	463.3	462.5	459.9	458.9	457.6	457.6	458.2	459.0	458.6	457.1
20°	476.9	476.0	474.0	470.8	469.5	467.4	467.1	467.4	467.4	467.1	466.0
22.5°	494.1	493.4	491.0	486.9	484.9	483.7	482.0	480.7	480.4	479.4	478.3
25°	514.8	514.5	511.3	507.8	506.5	504.9	503.6	501.6	499.8	497.8	496.7
27.5°	541.1	540.1	535.4	533.8	531.6	530.8	528.8	526.5	525.1	522.5	521.0
30°	570.2	570.2	566.4	565.8	565.8	563.9	561.5	557.5	555.0	552.4	551.5
32.5°	599.1	599.3	595.7	596.8	597.7	599.1	599.7	598.2	596.6	596.3	594.5
35°	641.0	639.9	636.1	637.0	636.7	636.4	636.4	639.6	640.1	640.8	637.3
37.5°	693.0	693.0	689.2	689.2	687.6	685.8	683.5	685.4	688.6	689.4	687.3
40°	752.3	754.3	749.7	749.5	750.1	744.5	742.0	745.1	747.2	750.7	748.0
42.5°	822.4	821.0	816.3	815.8	812.5	810.9	808.6	811.2	814.4	816.6	817.5
45°	889.5	888.3	883.2	883.2	880.0	878.6	879.7	884.0	885.5	888.7	891.7
47.5°	955.7	954.3	950.9	952.4	952.7	955.2	958.9	963.0	966.9	971.2	972.7
50°	1023.4	1023.8	1020.0	1023.4	1027.8	1034.9	1045.0	1051.6	1059.9	1065.4	1067.0
52.5°	1085.2	1086.3	1090.4	1098.4	1107.0	1121.1	1138.2	1154.3	1168.1	1177.3	1176.7
55°	1159.3	1160.9	1170.8	1184.4	1198.5	1219.8	1245.3	1273.6	1296.7	1309.8	1301.6
57.5°	1253.9	1257.5	1268.5	1287.2	1308.1	1335.7	1370.6	1413.5	1449.0	1466.8	1453.3
60°	1383.8	1386.2	1399.4	1420.0	1445.3	1479.4	1526.2	1583.5	1633.7	1657.4	1641.8
62.5°	1555.1	1559.5	1570.1	1591.0	1616.9	1655.5	1712.7	1784.5	1846.9	1879.7	1844.7
65°	1759.7	1773.6	1782.3	1803.6	1827.7	1868.7	1928.4	2005.3	2072.5	2093.9	2053.5
67.5°	1962.3	1974.4	1989.8	2014.3	2038.7	2084.8	2140.2	2214.9	2288.5	2308.0	2245.3
70°	2051.0	2057.8	2081.9	2115.2	2162.0	2216.6	2280.4	2364.2	2455.5	2471.5	2391.8
72.5°	1873.3	1880.2	1907.2	1963.8	2045.3	2131.9	2243.4	2366.6	2487.0	2505.3	2395.3
75°	1416.8	1405.7	1445.6	1520.4	1630.3	1751.2	1907.2	2083.7	2257.9	2280.4	2149.4
77.5°	732.3	730.9	761.0	853.8	985.0	1122.4	1294.4	1493.7	1664.2	1733.1	1626.3
80°	206.3	208.5	223.0	269.1	345.8	445.0	579.2	766.2	905.5	976.6	917.0
82.5°	80.8	87.2	92.6	101.2	111.3	125.9	168.2	250.2	335.6	401.2	328.5
85°	28.9	31.0	43.8	51.9	52.8	55.7	63.4	74.0	89.2	106.4	87.6
87.5°	10.9	12.0	14.1	23.3	22.9	20.9	25.5	26.7	20.1	18.3	22.6
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°	443.0	443.0	443.0	443.0	443.0	443.0	443.0	443.0
2.5°	441.8	442.1	442.1	442.4	442.8	442.8	443.4	443.4
5°	442.1	442.1	441.5	441.8	441.5	441.5	441.8	441.8
7.5°	441.5	441.2	440.7	440.3	439.9	439.9	439.9	439.9
10°	440.7	440.3	439.9	439.6	439.4	439.4	439.4	439.4
12.5°	443.0	442.1	441.5	441.2	441.2	441.2	441.2	441.2
15°	449.1	447.0	445.6	445.6	445.9	446.5	446.5	447.0
17.5°	456.5	454.3	452.7	451.6	452.1	453.0	453.6	454.3
20°	465.4	464.2	462.3	461.1	461.1	462.3	462.7	463.0
22.5°	477.8	476.9	476.0	474.6	474.6	475.2	476.3	476.3
25°	496.1	495.5	495.0	493.8	493.4	493.4	494.1	494.6
27.5°	519.0	519.3	518.9	518.5	517.7	517.3	518.2	518.0
30°	549.8	551.2	552.6	551.5	550.0	549.1	548.3	547.2
32.5°	591.4	589.6	588.5	586.5	583.9	581.7	579.9	577.9
35°	630.7	627.7	626.7	628.4	628.0	626.7	624.6	623.0
37.5°	678.8	678.3	678.8	682.1	681.5	682.9	678.8	678.6
40°	739.8	740.3	744.2	748.0	750.1	752.1	749.7	747.5
42.5°	810.4	810.0	811.3	816.6	820.1	822.4	817.5	816.9
45°	884.9	882.9	884.0	888.3	891.7	894.4	889.0	889.0
47.5°	966.9	963.5	959.7	964.7	966.7	968.5	964.2	962.7
50°	1058.6	1051.2	1043.3	1045.3	1045.3	1044.6	1039.2	1039.0
52.5°	1163.6	1150.3	1135.6	1130.2	1127.1	1123.6	1114.2	1109.5
55°	1284.2	1264.5	1241.5	1227.4	1220.0	1210.6	1194.7	1190.4
57.5°	1425.5	1394.4	1354.9	1337.7	1321.0	1305.5	1288.0	1283.1
60°	1592.8	1547.2	1494.6	1462.8	1444.7	1429.7	1411.6	1410.9
62.5°	1779.3	1707.1	1647.9	1619.1	1605.9	1592.8	1575.5	1577.9
65°	1968.9	1893.7	1838.1	1814.8	1802.4	1791.6	1774.4	1776.9
67.5°	2156.0	2086.9	2025.7	2002.0	1988.0	1974.4	1958.8	1961.4
70°	2290.3	2204.5	2135.6	2082.8	2049.8	2012.6	1988.4	1982.4
72.5°	2251.8	2119.6	2010.2	1905.6	1844.1	1794.2	1760.3	1745.6
75°	1948.9	1768.0	1627.5	1498.9	1426.6	1367.8	1325.0	1298.4
77.5°	1447.3	1244.2	1078.0	929.9	812.8	734.3	678.8	642.9
80°	792.2	602.6	440.3	309.6	227.5	189.2	166.9	156.3
82.5°	246.8	159.3	117.4	101.2	94.1	90.1	83.5	72.9
85°	78.6	68.9	64.0	61.2	58.2	50.8	35.0	31.9
87.5°	30.5	31.4	31.0	29.3	29.9	21.5	17.2	15.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)