

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: P190889

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190889
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6714.6 lumens
Efficiency: N/A
Efficacy: 113.8 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 - G2

Input Watts (W): 59
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

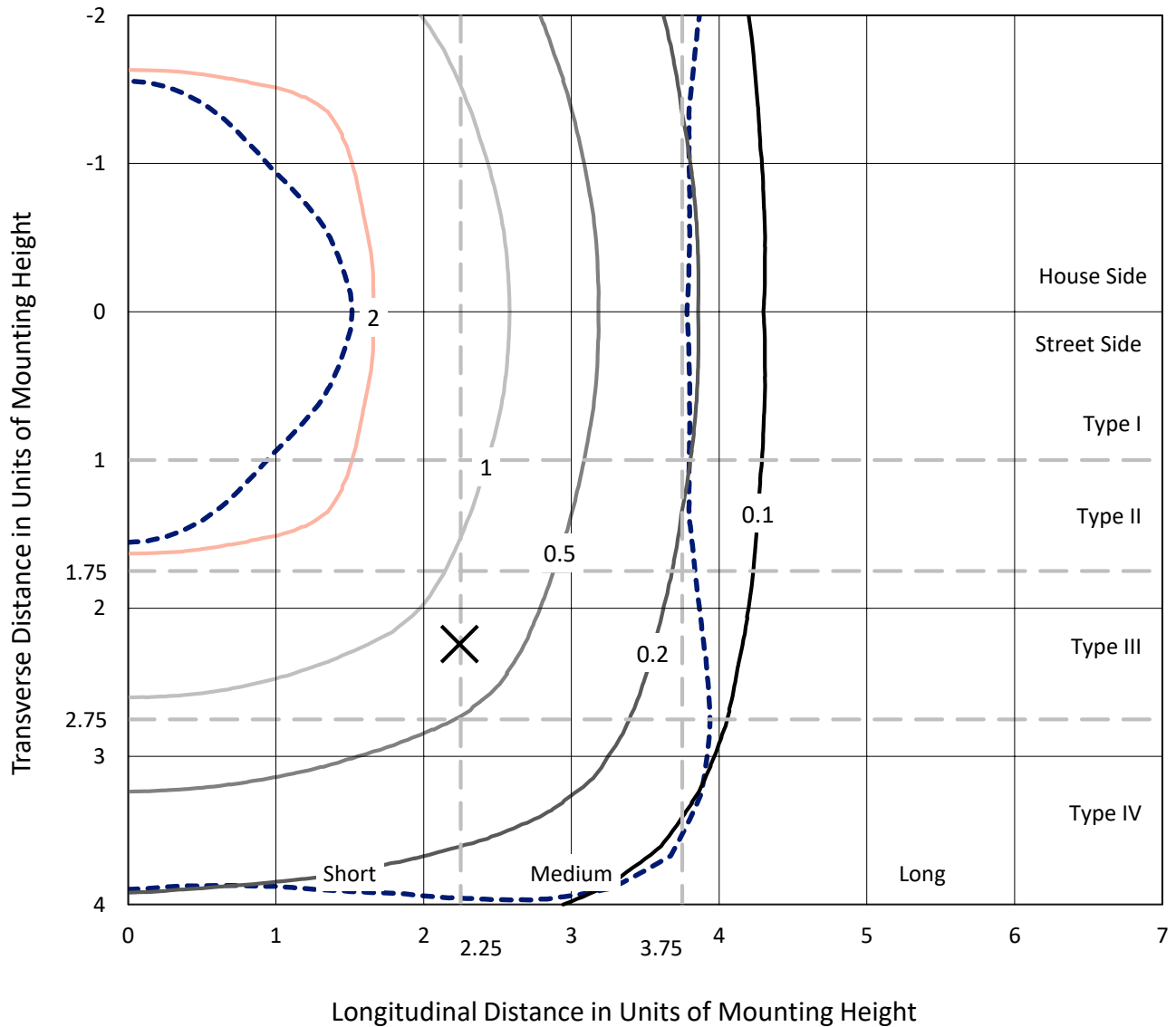


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

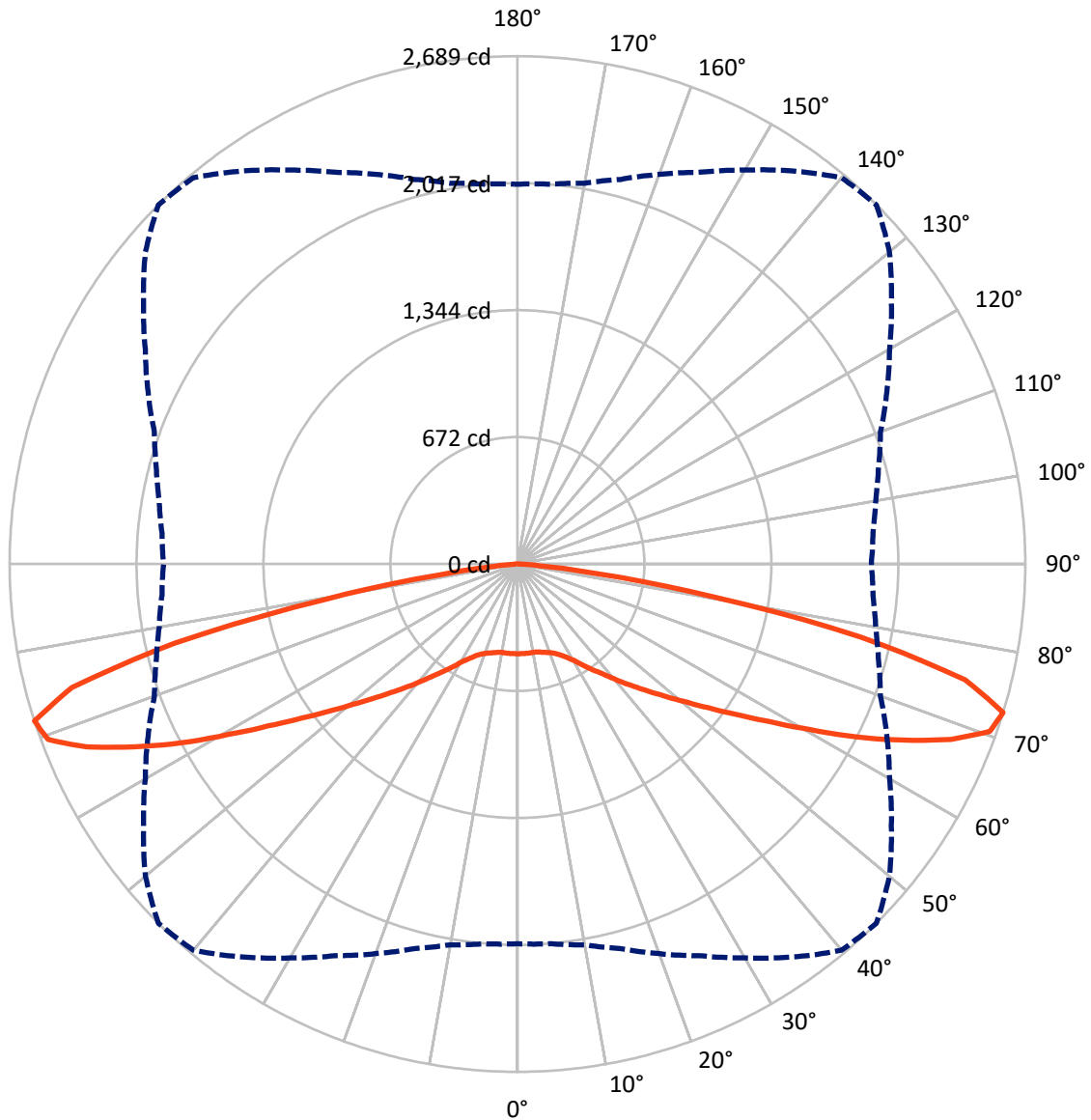


Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - Semi-Cutoff

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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	3357.3	0.0	3357.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3357.3	0.0	3357.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	6714.6	0.0	6714.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.4	0.7
10°-20°	137.9	2.1
20°-30°	252.0	3.8
30°-40°	434.5	6.5
40°-50°	742.8	11.1
50°-60°	1203.9	17.9
60°-70°	1997.2	29.7
70°-80°	1759.1	26.2
80°-90°	141.8	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°	6714.6	100.0
0°-180°	6714.6	100.0



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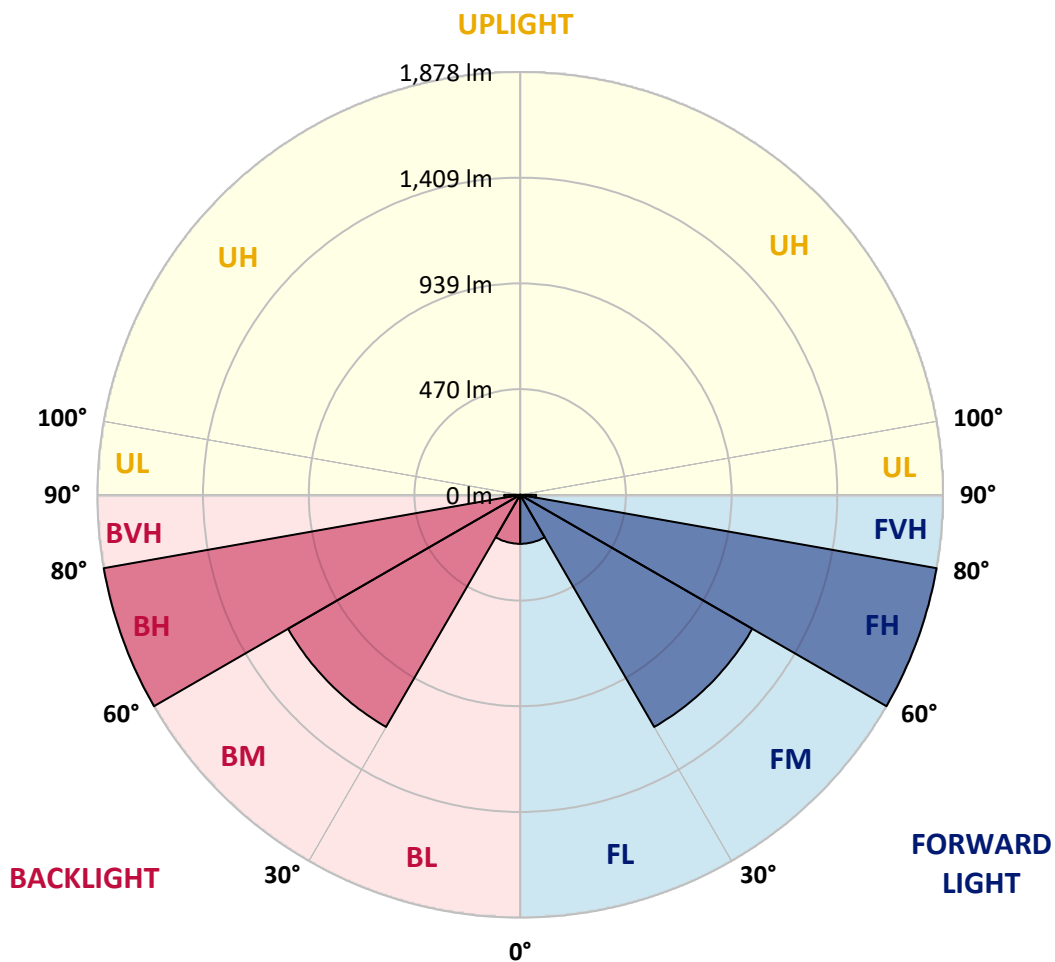
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	217.6	3.2			
FM (30°-60°)	1190.6	17.7			
FH (60°-80°)	1878.2	28.0			G2/5000
FVH (80°-90°)	70.9	1.1			G1/100
BL (0°-30°)	217.6	3.2	B1/500		
BM (30°-60°)	1190.6	17.7	B2/2500		
BH (60°-80°)	1878.2	28.0	B3/2500		G2/5000
BVH (80°-90°)	70.9	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	475.5	475.5	475.5	475.5	475.5	475.5	475.5	475.5	475.5	475.5	475.5
2.5°	475.5	475.8	476.1	475.8	475.8	475.5	475.2	475.5	475.2	474.5	474.9
5°	477.0	477.6	477.6	477.0	477.3	477.0	476.4	476.7	476.1	475.2	475.2
7.5°	478.8	479.2	479.2	478.5	478.8	478.2	477.6	477.3	476.7	475.5	474.5
10°	481.7	482.0	481.7	481.1	481.1	480.1	478.5	477.9	476.7	474.9	473.9
12.5°	484.8	485.1	484.8	484.2	483.9	482.3	481.1	480.1	479.2	477.6	476.1
15°	489.1	489.7	489.1	487.8	486.9	485.7	485.1	485.4	485.7	484.5	482.9
17.5°	497.1	497.4	496.4	493.7	492.4	491.2	491.2	491.8	492.8	492.1	490.6
20°	511.9	511.0	508.7	505.3	503.8	501.7	501.3	501.7	501.7	501.3	500.1
22.5°	530.3	529.7	526.9	522.6	520.5	519.2	517.4	515.9	515.6	514.6	513.4
25°	552.5	552.2	548.8	545.1	543.6	542.1	540.5	538.3	536.4	534.3	533.1
27.5°	580.8	579.6	574.7	572.9	570.7	569.8	567.5	565.1	563.5	560.8	559.2
30°	611.9	611.9	607.9	607.3	607.3	605.2	602.7	598.4	595.6	592.8	591.9
32.5°	643.0	643.3	639.3	640.6	641.5	643.0	643.6	642.1	640.3	640.0	638.1
35°	688.0	686.8	682.7	683.6	683.3	683.0	683.0	686.5	687.1	687.7	683.9
37.5°	743.8	743.8	739.7	739.7	737.9	736.0	733.6	735.7	739.1	740.0	737.5
40°	807.5	809.7	804.8	804.4	805.1	799.1	796.4	799.7	802.0	805.7	802.9
42.5°	882.6	881.1	876.2	875.5	872.2	870.3	867.9	870.6	874.0	876.5	877.4
45°	954.7	953.5	948.0	948.0	944.5	943.0	944.2	948.9	950.4	953.8	957.2
47.5°	1025.8	1024.3	1020.6	1022.1	1022.4	1025.2	1029.2	1033.5	1037.9	1042.5	1044.0
50°	1098.5	1098.9	1094.9	1098.5	1103.2	1110.8	1121.7	1128.7	1137.6	1143.5	1145.3
52.5°	1164.7	1166.0	1170.3	1178.8	1188.2	1203.2	1221.7	1239.0	1253.7	1263.5	1262.9
55°	1244.2	1246.1	1256.5	1271.3	1286.4	1309.2	1336.6	1367.1	1391.7	1405.8	1396.9
57.5°	1345.8	1349.8	1361.5	1381.5	1404.0	1433.6	1471.2	1517.0	1555.2	1574.3	1559.9
60°	1485.3	1487.8	1502.0	1524.1	1551.2	1587.9	1638.1	1699.6	1753.5	1778.8	1762.2
62.5°	1669.1	1673.8	1685.2	1707.7	1735.4	1777.0	1838.2	1915.3	1982.4	2017.5	1979.9
65°	1888.8	1903.5	1913.1	1935.8	1961.7	2005.8	2069.8	2152.4	2224.4	2247.5	2204.2
67.5°	2106.2	2119.1	2135.7	2161.9	2188.1	2237.7	2297.1	2377.2	2456.3	2477.3	2409.9
70°	2201.4	2208.8	2234.6	2270.3	2320.6	2379.1	2447.7	2537.6	2635.6	2652.8	2567.2
72.5°	2010.7	2018.1	2047.0	2107.7	2195.2	2288.2	2408.0	2540.1	2669.5	2688.8	2570.9
75°	1520.7	1508.8	1551.5	1631.9	1749.9	1879.6	2047.0	2236.5	2423.4	2447.7	2307.0
77.5°	785.9	784.4	816.7	916.5	1057.2	1204.7	1389.3	1603.3	1786.2	1860.1	1745.6
80°	221.5	223.9	239.3	288.9	371.1	477.6	621.7	822.2	971.9	1048.3	984.3
82.5°	86.8	93.6	99.4	108.7	119.5	135.2	180.4	268.5	360.3	430.6	352.6
85°	31.1	33.2	47.2	55.8	56.7	59.7	68.0	79.5	95.7	114.3	93.9
87.5°	11.7	12.9	15.1	25.0	24.7	22.5	27.4	28.6	21.6	19.7	24.3
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°	475.5	475.5	475.5	475.5	475.5	475.5	475.5	475.5
2.5°	474.2	474.5	474.5	474.9	475.2	475.2	475.8	475.8
5°	474.5	474.5	473.9	474.2	473.9	473.9	474.2	474.2
7.5°	473.9	473.6	473.0	472.7	472.1	472.1	472.1	472.1
10°	473.0	472.7	472.1	471.8	471.5	471.5	471.5	471.5
12.5°	475.5	474.5	473.9	473.6	473.6	473.6	473.6	473.6
15°	482.0	479.8	478.2	478.2	478.5	479.2	479.2	479.8
17.5°	490.0	487.5	486.0	484.8	485.4	486.3	486.9	487.5
20°	499.5	498.3	496.1	494.9	494.9	496.1	496.7	497.1
22.5°	512.8	511.9	511.0	509.3	509.3	510.0	511.3	511.3
25°	532.4	531.8	531.2	530.0	529.7	529.7	530.3	530.9
27.5°	557.1	557.4	556.8	556.5	555.6	555.3	556.2	555.9
30°	590.0	591.6	593.1	591.9	590.3	589.4	588.5	587.3
32.5°	634.7	632.9	631.7	629.5	626.8	624.2	622.4	620.2
35°	676.9	673.8	672.6	674.4	674.1	672.6	670.4	668.6
37.5°	728.6	728.0	728.6	732.0	731.4	732.9	728.6	728.3
40°	793.9	794.5	798.8	802.9	805.1	807.2	804.8	802.3
42.5°	869.7	869.4	870.9	876.5	880.1	882.6	877.4	876.8
45°	949.8	947.7	948.9	953.5	957.2	959.9	954.1	954.1
47.5°	1037.9	1034.2	1030.1	1035.4	1037.6	1039.4	1034.8	1033.2
50°	1136.1	1128.4	1119.7	1122.0	1122.0	1121.4	1115.4	1115.1
52.5°	1248.8	1234.6	1218.9	1213.1	1209.7	1206.0	1195.8	1190.9
55°	1378.4	1357.3	1332.6	1317.5	1309.5	1299.4	1282.4	1277.8
57.5°	1530.0	1496.7	1454.2	1435.7	1417.9	1401.2	1382.4	1377.2
60°	1709.6	1660.6	1604.2	1570.0	1550.6	1534.6	1515.2	1514.3
62.5°	1909.7	1832.4	1768.7	1737.9	1723.7	1709.6	1691.0	1693.5
65°	2113.3	2032.6	1972.9	1947.9	1934.6	1922.9	1904.4	1907.3
67.5°	2314.0	2239.9	2174.3	2148.7	2133.9	2119.1	2102.5	2105.2
70°	2458.2	2366.1	2292.2	2235.6	2200.2	2160.1	2134.2	2127.7
72.5°	2416.9	2274.9	2157.6	2045.2	1979.3	1925.7	1889.4	1873.6
75°	2091.7	1897.7	1746.8	1608.8	1531.3	1468.0	1422.2	1393.6
77.5°	1553.4	1335.4	1157.1	998.1	872.5	788.1	728.6	690.2
80°	850.3	646.7	472.7	332.3	244.2	203.0	179.2	167.9
82.5°	264.8	170.9	125.9	108.7	101.0	96.7	89.6	78.3
85°	84.4	74.0	68.6	65.6	62.5	54.5	37.5	34.2
87.5°	32.6	33.6	33.2	31.4	32.0	23.1	18.5	16.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)