

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: P191689

Luminaire Tested: **GLEON-AF-01-LED-E1-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191689
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-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 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: 6564 lumens
Efficiency: N/A
Efficacy: 111.3 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

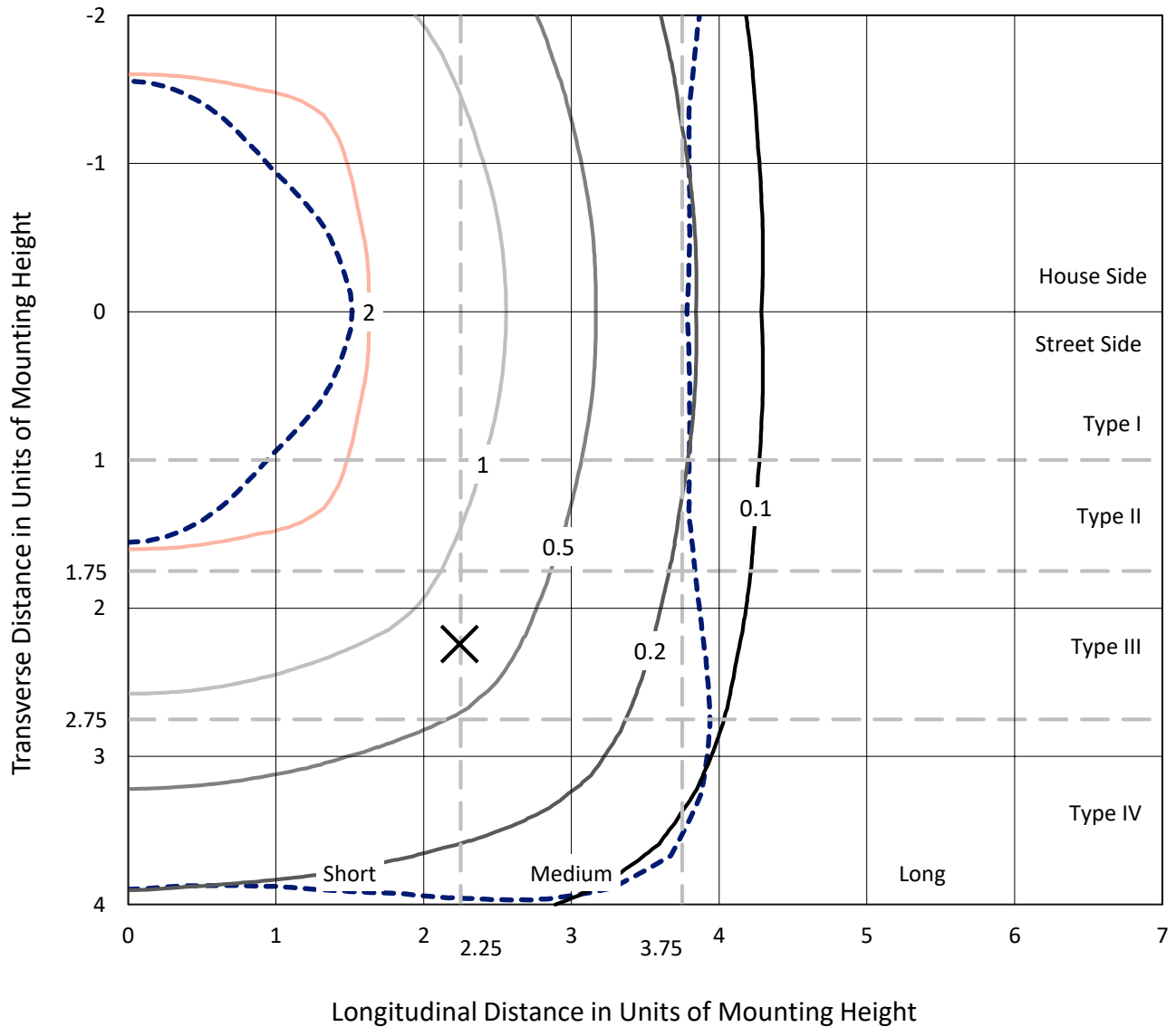


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

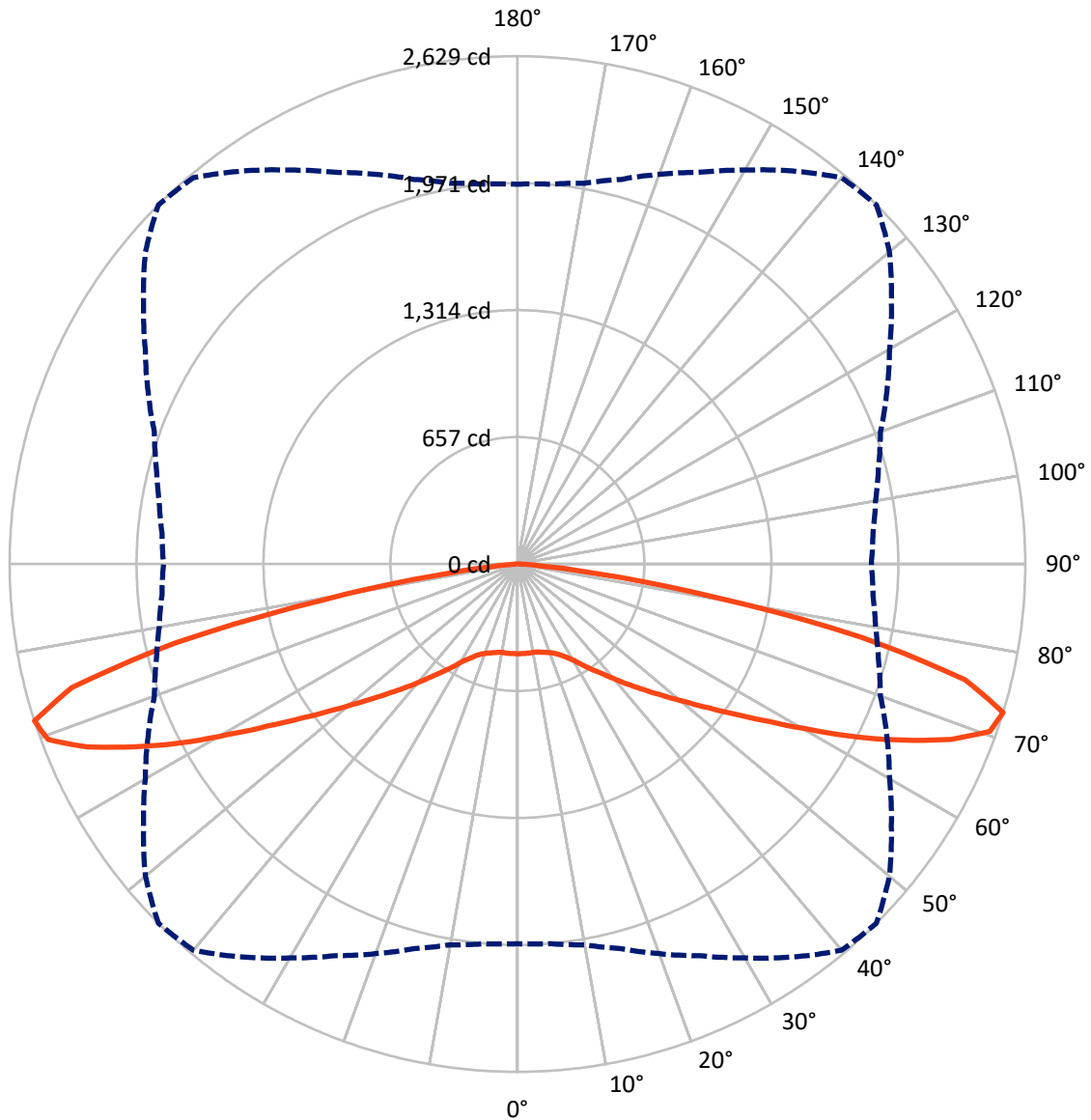


Based on 10 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - Semi-Cutoff

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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	3282.0	0.0	3282.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3282.0	0.0	3282.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6564.0	0.0	6564.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.4	0.7
10°-20°	134.8	2.1
20°-30°	246.3	3.8
30°-40°	424.7	6.5
40°-50°	726.1	11.1
50°-60°	1176.9	17.9
60°-70°	1952.4	29.7
70°-80°	1719.6	26.2
80°-90°	138.6	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°	6564.0	100.0
0°-180°	6564.0	100.0



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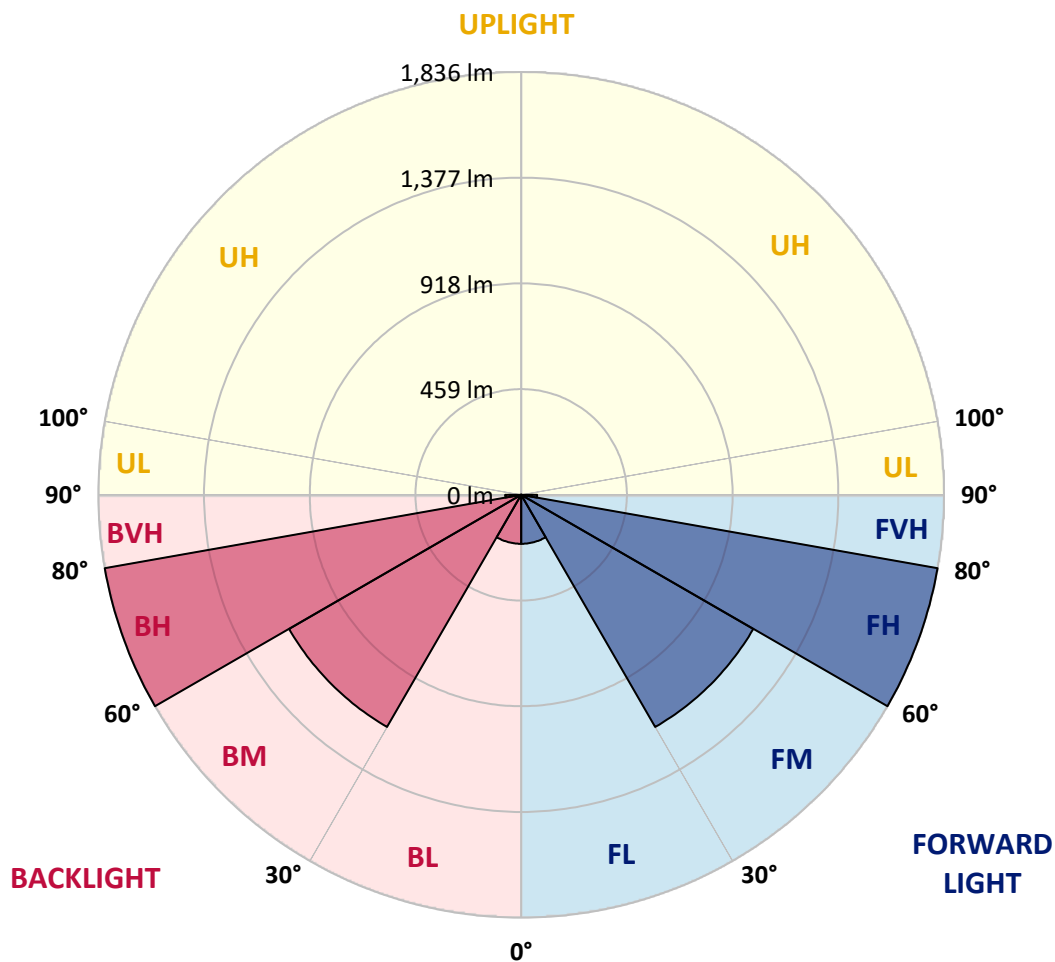
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	212.8	3.2			
FM (30°-60°)	1163.9	17.7			
FH (60°-80°)	1836.0	28.0			G2/5000
FVH (80°-90°)	69.3	1.1			G1/100
BL (0°-30°)	212.8	3.2	B1/500		
BM (30°-60°)	1163.9	17.7	B2/2500		
BH (60°-80°)	1836.0	28.0	B3/2500		G2/5000
BVH (80°-90°)	69.3	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°	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8
2.5°	464.8	465.1	465.4	465.1	465.1	464.8	464.5	464.8	464.5	463.9	464.2
5°	466.3	466.9	466.9	466.3	466.6	466.3	465.7	466.0	465.4	464.5	464.5
7.5°	468.1	468.4	468.4	467.8	468.1	467.5	466.9	466.6	466.0	464.8	463.9
10°	470.9	471.2	470.9	470.3	470.3	469.3	467.8	467.2	466.0	464.2	463.3
12.5°	473.9	474.2	473.9	473.3	473.0	471.5	470.3	469.3	468.4	466.9	465.4
15°	478.1	478.7	478.1	476.9	476.0	474.8	474.2	474.5	474.8	473.6	472.1
17.5°	485.9	486.2	485.3	482.6	481.4	480.2	480.2	480.8	481.7	481.1	479.6
20°	500.4	499.5	497.3	494.0	492.5	490.4	490.1	490.4	490.4	490.1	488.9
22.5°	518.4	517.8	515.1	510.9	508.8	507.6	505.8	504.3	504.0	503.1	501.9
25°	540.1	539.8	536.5	532.9	531.4	529.9	528.4	526.2	524.4	522.3	521.1
27.5°	567.8	566.6	561.8	560.0	557.9	557.0	554.8	552.4	550.9	548.2	546.7
30°	598.2	598.2	594.3	593.7	593.7	591.6	589.2	585.0	582.2	579.5	578.6
32.5°	628.6	628.9	625.0	626.2	627.1	628.6	629.2	627.7	625.9	625.6	623.8
35°	672.6	671.4	667.4	668.3	668.0	667.7	667.7	671.1	671.7	672.3	668.6
37.5°	727.1	727.1	723.1	723.1	721.3	719.5	717.1	719.2	722.5	723.4	721.0
40°	789.4	791.5	786.7	786.4	787.0	781.2	778.5	781.8	784.0	787.6	784.9
42.5°	862.8	861.3	856.5	855.9	852.6	850.8	848.4	851.1	854.4	856.8	857.7
45°	933.3	932.1	926.7	926.7	923.3	921.8	923.0	927.6	929.1	932.4	935.7
47.5°	1002.8	1001.3	997.7	999.2	999.5	1002.2	1006.1	1010.3	1014.6	1019.1	1020.6
50°	1073.9	1074.2	1070.3	1073.9	1078.4	1085.9	1096.5	1103.4	1112.1	1117.8	1119.6
52.5°	1138.6	1139.8	1144.0	1152.4	1161.5	1176.2	1194.3	1211.2	1225.6	1235.2	1234.6
55°	1216.3	1218.1	1228.3	1242.8	1257.5	1279.8	1306.6	1336.4	1360.5	1374.3	1365.6
57.5°	1315.6	1319.5	1331.0	1350.5	1372.5	1401.4	1438.2	1483.0	1520.3	1539.0	1524.9
60°	1452.0	1454.4	1468.3	1489.9	1516.4	1552.3	1601.3	1661.5	1714.2	1738.9	1722.7
62.5°	1631.7	1636.2	1647.4	1669.4	1696.5	1737.1	1797.0	1872.3	1937.9	1972.2	1935.5
65°	1846.4	1860.8	1870.2	1892.4	1917.7	1960.8	2023.4	2104.1	2174.5	2197.1	2154.7
67.5°	2058.9	2071.6	2087.8	2113.4	2139.0	2187.5	2245.6	2323.9	2401.2	2421.7	2355.8
70°	2152.0	2159.2	2184.5	2219.4	2268.5	2325.7	2392.8	2480.7	2576.5	2593.3	2509.6
72.5°	1965.6	1972.8	2001.1	2060.4	2145.9	2236.9	2354.0	2483.1	2609.6	2628.5	2513.2
75°	1486.6	1474.9	1516.7	1595.3	1710.6	1837.4	2001.1	2186.3	2369.0	2392.8	2255.2
77.5°	768.3	766.8	798.4	895.9	1033.5	1177.7	1358.1	1567.3	1746.1	1818.4	1706.4
80°	216.5	218.9	233.9	282.4	362.8	466.9	607.8	803.8	950.1	1024.8	962.2
82.5°	84.9	91.5	97.2	106.3	116.8	132.2	176.4	262.5	352.2	420.9	344.7
85°	30.4	32.5	46.1	54.5	55.4	58.4	66.5	77.7	93.6	111.7	91.8
87.5°	11.4	12.6	14.8	24.4	24.1	22.0	26.8	28.0	21.1	19.3	23.8
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°	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8
2.5°	463.6	463.9	463.9	464.2	464.5	464.5	465.1	465.1
5°	463.9	463.9	463.3	463.6	463.3	463.3	463.6	463.6
7.5°	463.3	463.0	462.4	462.1	461.5	461.5	461.5	461.5
10°	462.4	462.1	461.5	461.2	460.9	460.9	460.9	460.9
12.5°	464.8	463.9	463.3	463.0	463.0	463.0	463.0	463.0
15°	471.2	469.0	467.5	467.5	467.8	468.4	468.4	469.0
17.5°	479.0	476.6	475.1	473.9	474.5	475.4	476.0	476.6
20°	488.3	487.1	485.0	483.8	483.8	485.0	485.6	485.9
22.5°	501.3	500.4	499.5	497.9	497.9	498.6	499.8	499.8
25°	520.5	519.9	519.3	518.1	517.8	517.8	518.4	519.0
27.5°	544.6	544.9	544.3	544.0	543.1	542.8	543.7	543.4
30°	576.8	578.3	579.8	578.6	577.1	576.2	575.3	574.1
32.5°	620.5	618.7	617.5	615.4	612.7	610.2	608.4	606.3
35°	661.7	658.7	657.5	659.3	659.0	657.5	655.4	653.6
37.5°	712.3	711.7	712.3	715.6	715.0	716.5	712.3	712.0
40°	776.1	776.7	780.9	784.9	787.0	789.1	786.7	784.3
42.5°	850.2	849.9	851.4	856.8	860.4	862.8	857.7	857.1
45°	928.5	926.4	927.6	932.1	935.7	938.4	932.7	932.7
47.5°	1014.6	1011.0	1007.0	1012.2	1014.3	1016.1	1011.6	1010.0
50°	1110.6	1103.1	1094.6	1096.8	1096.8	1096.2	1090.4	1090.1
52.5°	1220.8	1206.9	1191.6	1185.9	1182.6	1178.9	1169.0	1164.2
55°	1347.5	1326.8	1302.7	1287.9	1280.1	1270.2	1253.6	1249.1
57.5°	1495.7	1463.1	1421.6	1403.5	1386.1	1369.8	1351.4	1346.3
60°	1671.2	1623.3	1568.2	1534.8	1515.8	1500.2	1481.2	1480.3
62.5°	1866.9	1791.3	1729.0	1698.9	1685.0	1671.2	1653.1	1655.5
65°	2065.9	1987.0	1928.6	1904.2	1891.2	1879.8	1861.7	1864.5
67.5°	2262.1	2189.6	2125.5	2100.5	2086.0	2071.6	2055.3	2058.0
70°	2403.0	2313.0	2240.8	2185.4	2150.8	2111.6	2086.3	2080.0
72.5°	2362.7	2223.9	2109.2	1999.3	1934.9	1882.5	1847.0	1831.6
75°	2044.8	1855.1	1707.6	1572.7	1496.9	1435.1	1390.3	1362.3
77.5°	1518.5	1305.4	1131.1	975.7	852.9	770.4	712.3	674.7
80°	831.2	632.2	462.1	324.8	238.7	198.4	175.2	164.1
82.5°	258.9	167.1	123.1	106.3	98.7	94.5	87.6	76.5
85°	82.5	72.3	67.1	64.1	61.1	53.3	36.7	33.4
87.5°	31.9	32.8	32.5	30.7	31.3	22.6	18.1	16.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)