

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: P193439

Luminaire Tested: **GLEON-AF-01-LED-E1-5WQ-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193439
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-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 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: 5876 lumens
Efficiency: N/A
Efficacy: 87.7 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

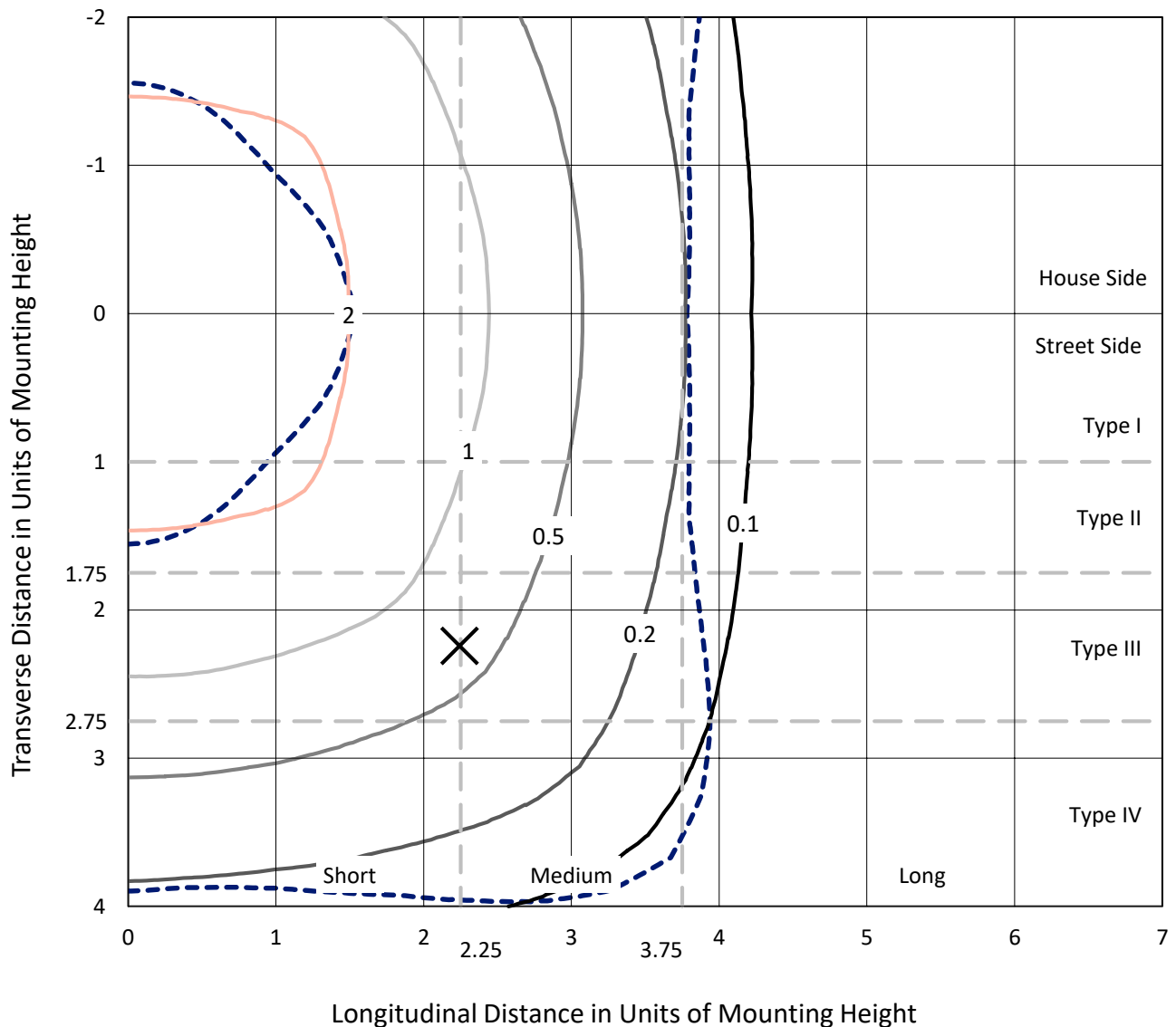


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

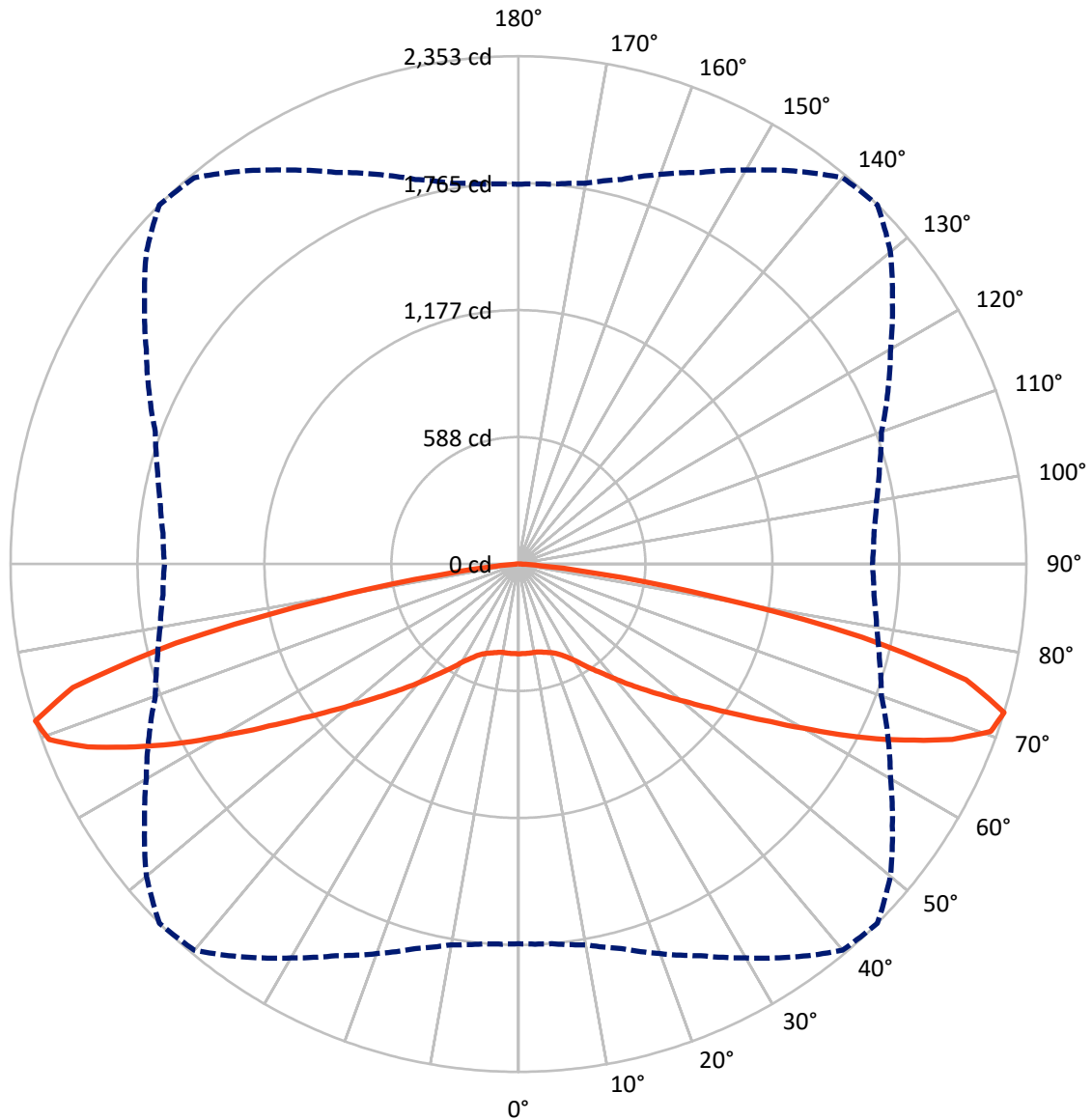


Based on 10 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - Semi-Cutoff

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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	2938.0	0.0	2938.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2938.0	0.0	2938.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5876.0	0.0	5876.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.7	0.7
10°-20°	120.7	2.1
20°-30°	220.5	3.8
30°-40°	380.2	6.5
40°-50°	650.0	11.1
50°-60°	1053.5	17.9
60°-70°	1747.8	29.7
70°-80°	1539.4	26.2
80°-90°	124.1	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°	5876.0	100.0
0°-180°	5876.0	100.0



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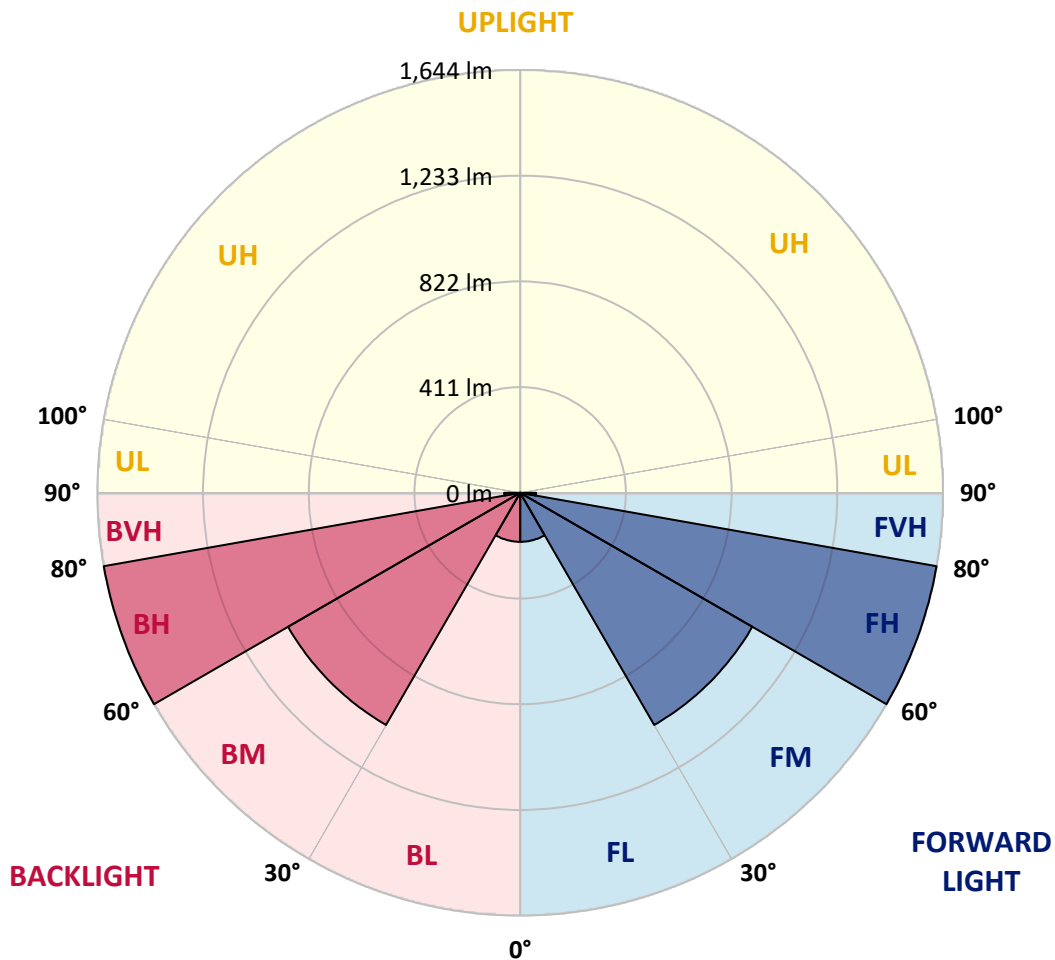
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	190.5	3.2			
FM	(30°-60°)	1041.9	17.7			
FH	(60°-80°)	1643.6	28.0			G1/1800
FVH	(80°-90°)	62.1	1.1			G1/100
BL	(0°-30°)	190.5	3.2	B1/500		
BM	(30°-60°)	1041.9	17.7	B2/2500		
BH	(60°-80°)	1643.6	28.0	B3/2500		G1/1800
BVH	(80°-90°)	62.1	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°	416.1	416.1	416.1	416.1	416.1	416.1	416.1	416.1	416.1	416.1	416.1
2.5°	416.1	416.4	416.7	416.4	416.4	416.1	415.8	416.1	415.8	415.3	415.6
5°	417.5	418.0	418.0	417.5	417.7	417.5	416.9	417.2	416.7	415.8	415.8
7.5°	419.1	419.3	419.3	418.8	419.1	418.5	418.0	417.7	417.2	416.1	415.3
10°	421.5	421.8	421.5	421.0	421.0	420.2	418.8	418.3	417.2	415.6	414.8
12.5°	424.2	424.5	424.2	423.7	423.4	422.0	421.0	420.2	419.3	418.0	416.7
15°	428.0	428.5	428.0	426.9	426.1	425.0	424.5	424.7	425.0	423.9	422.6
17.5°	435.0	435.2	434.4	432.0	430.9	429.9	429.9	430.4	431.2	430.7	429.3
20°	447.9	447.1	445.2	442.3	440.9	439.0	438.8	439.0	439.0	438.8	437.7
22.5°	464.1	463.5	461.1	457.3	455.5	454.4	452.8	451.4	451.1	450.3	449.3
25°	483.5	483.2	480.3	477.0	475.7	474.3	473.0	471.1	469.5	467.6	466.5
27.5°	508.3	507.2	502.9	501.3	499.4	498.6	496.7	494.5	493.2	490.8	489.4
30°	535.5	535.5	532.0	531.5	531.5	529.6	527.4	523.6	521.2	518.8	518.0
32.5°	562.7	563.0	559.5	560.6	561.4	562.7	563.3	561.9	560.3	560.0	558.4
35°	602.1	601.0	597.5	598.3	598.0	597.8	597.8	600.7	601.3	601.8	598.6
37.5°	650.8	650.8	647.3	647.3	645.7	644.1	642.0	643.8	646.8	647.6	645.5
40°	706.6	708.5	704.2	703.9	704.5	699.4	696.9	699.9	701.8	705.0	702.6
42.5°	772.4	771.0	766.7	766.2	763.2	761.6	759.5	761.9	764.8	767.0	767.8
45°	835.5	834.4	829.5	829.5	826.6	825.2	826.3	830.3	831.7	834.6	837.6
47.5°	897.7	896.4	893.1	894.5	894.7	897.2	900.7	904.5	908.2	912.3	913.6
50°	961.3	961.6	958.1	961.3	965.4	972.1	981.5	987.7	995.5	1000.7	1002.3
52.5°	1019.3	1020.3	1024.1	1031.7	1039.7	1052.9	1069.1	1084.2	1097.1	1105.8	1105.2
55°	1088.8	1090.4	1099.6	1112.5	1125.7	1145.7	1169.6	1196.3	1217.9	1230.3	1222.5
57.5°	1177.7	1181.2	1191.5	1209.0	1228.7	1254.5	1287.4	1327.6	1361.0	1377.7	1365.0
60°	1299.8	1302.0	1314.4	1333.8	1357.5	1389.6	1433.5	1487.4	1534.5	1556.6	1542.1
62.5°	1460.7	1464.7	1474.7	1494.4	1518.6	1555.0	1608.7	1676.0	1734.8	1765.5	1732.6
65°	1652.9	1665.8	1674.2	1694.1	1716.7	1755.3	1811.3	1883.6	1946.6	1966.8	1928.8
67.5°	1843.1	1854.4	1869.0	1891.9	1914.8	1958.2	2010.2	2080.3	2149.6	2167.9	2108.9
70°	1926.4	1932.9	1955.5	1986.8	2030.7	2081.9	2142.0	2220.7	2306.4	2321.5	2246.6
72.5°	1759.6	1766.1	1791.4	1844.5	1921.0	2002.4	2107.2	2222.9	2336.0	2353.0	2249.8
75°	1330.8	1320.3	1357.8	1428.1	1531.3	1644.8	1791.4	1957.1	2120.7	2142.0	2018.8
77.5°	687.8	686.4	714.7	802.0	925.2	1054.3	1215.7	1403.0	1563.1	1627.8	1527.5
80°	193.8	195.9	209.4	252.8	324.8	418.0	544.1	719.6	850.6	917.4	861.3
82.5°	76.0	81.9	87.0	95.1	104.6	118.3	157.9	235.0	315.3	376.8	308.6
85°	27.2	29.1	41.2	48.8	49.6	52.3	59.6	69.5	83.8	100.0	82.2
87.5°	10.2	11.3	13.2	21.8	21.6	19.7	24.0	25.1	18.9	17.2	21.3
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°	416.1	416.1	416.1	416.1	416.1	416.1	416.1	416.1
2.5°	415.0	415.3	415.3	415.6	415.8	415.8	416.4	416.4
5°	415.3	415.3	414.8	415.0	414.8	414.8	415.0	415.0
7.5°	414.8	414.5	414.0	413.7	413.1	413.1	413.1	413.1
10°	414.0	413.7	413.1	412.9	412.6	412.6	412.6	412.6
12.5°	416.1	415.3	414.8	414.5	414.5	414.5	414.5	414.5
15°	421.8	419.9	418.5	418.5	418.8	419.3	419.3	419.9
17.5°	428.8	426.6	425.3	424.2	424.7	425.5	426.1	426.6
20°	437.1	436.1	434.2	433.1	433.1	434.2	434.7	435.0
22.5°	448.7	447.9	447.1	445.8	445.8	446.3	447.4	447.4
25°	466.0	465.4	464.9	463.8	463.5	463.5	464.1	464.6
27.5°	487.5	487.8	487.3	487.0	486.2	485.9	486.7	486.5
30°	516.4	517.7	519.1	518.0	516.6	515.8	515.0	513.9
32.5°	555.4	553.8	552.7	550.9	548.4	546.3	544.7	542.8
35°	592.4	589.7	588.6	590.2	589.9	588.6	586.7	585.1
37.5°	637.6	637.1	637.6	640.6	640.1	641.4	637.6	637.4
40°	694.8	695.3	699.1	702.6	704.5	706.4	704.2	702.1
42.5°	761.1	760.8	762.2	767.0	770.2	772.4	767.8	767.3
45°	831.1	829.3	830.3	834.4	837.6	840.0	834.9	834.9
47.5°	908.2	905.0	901.5	906.1	908.0	909.6	905.5	904.2
50°	994.2	987.5	979.9	981.8	981.8	981.3	976.1	975.9
52.5°	1092.8	1080.4	1066.7	1061.6	1058.6	1055.4	1046.5	1042.2
55°	1206.3	1187.7	1166.1	1152.9	1145.9	1137.0	1122.2	1118.2
57.5°	1338.9	1309.8	1272.6	1256.4	1240.8	1226.2	1209.8	1205.2
60°	1496.0	1453.2	1403.8	1373.9	1356.9	1342.9	1326.0	1325.1
62.5°	1671.2	1603.5	1547.8	1520.8	1508.4	1496.0	1479.8	1482.0
65°	1849.3	1778.7	1726.4	1704.6	1693.0	1682.8	1666.6	1669.0
67.5°	2025.0	1960.1	1902.7	1880.3	1867.4	1854.4	1839.9	1842.3
70°	2151.2	2070.6	2005.9	1956.3	1925.3	1890.3	1867.7	1862.0
72.5°	2115.1	1990.8	1888.1	1789.8	1732.1	1685.2	1653.4	1639.7
75°	1830.5	1660.7	1528.6	1407.9	1340.0	1284.7	1244.6	1219.5
77.5°	1359.4	1168.6	1012.5	873.5	763.5	689.7	637.6	604.0
80°	744.1	566.0	413.7	290.8	213.7	177.6	156.9	146.9
82.5°	231.8	149.6	110.2	95.1	88.4	84.6	78.4	68.5
85°	73.8	64.7	60.1	57.4	54.7	47.7	32.9	29.9
87.5°	28.6	29.4	29.1	27.5	28.0	20.2	16.2	14.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)