

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: P191659

Luminaire Tested: **GLEON-AF-01-LED-E1-5NQ-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
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-E1-5NQ-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7052 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full 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

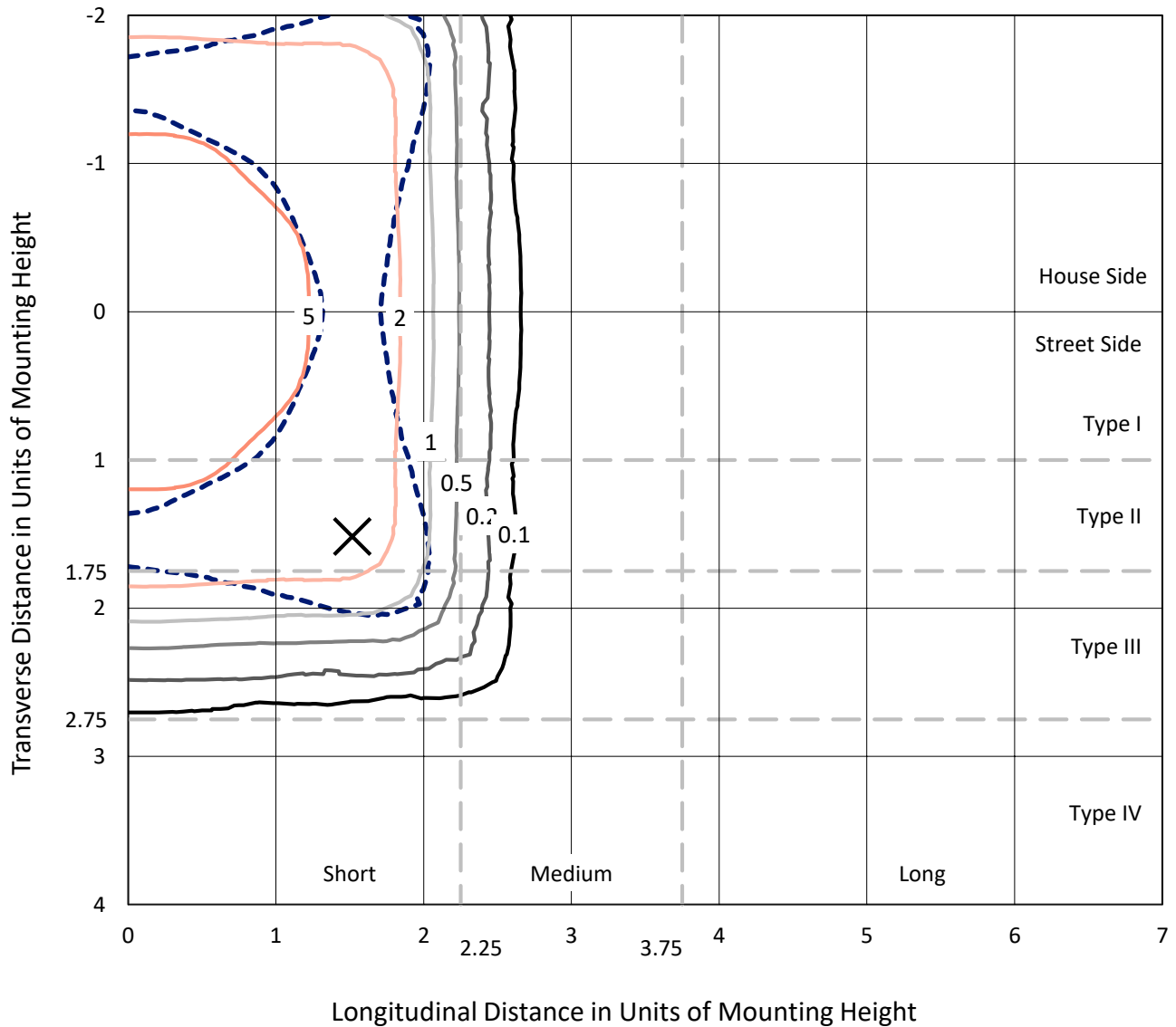


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Iso-Footcandle Lines of Horizontal Illumination

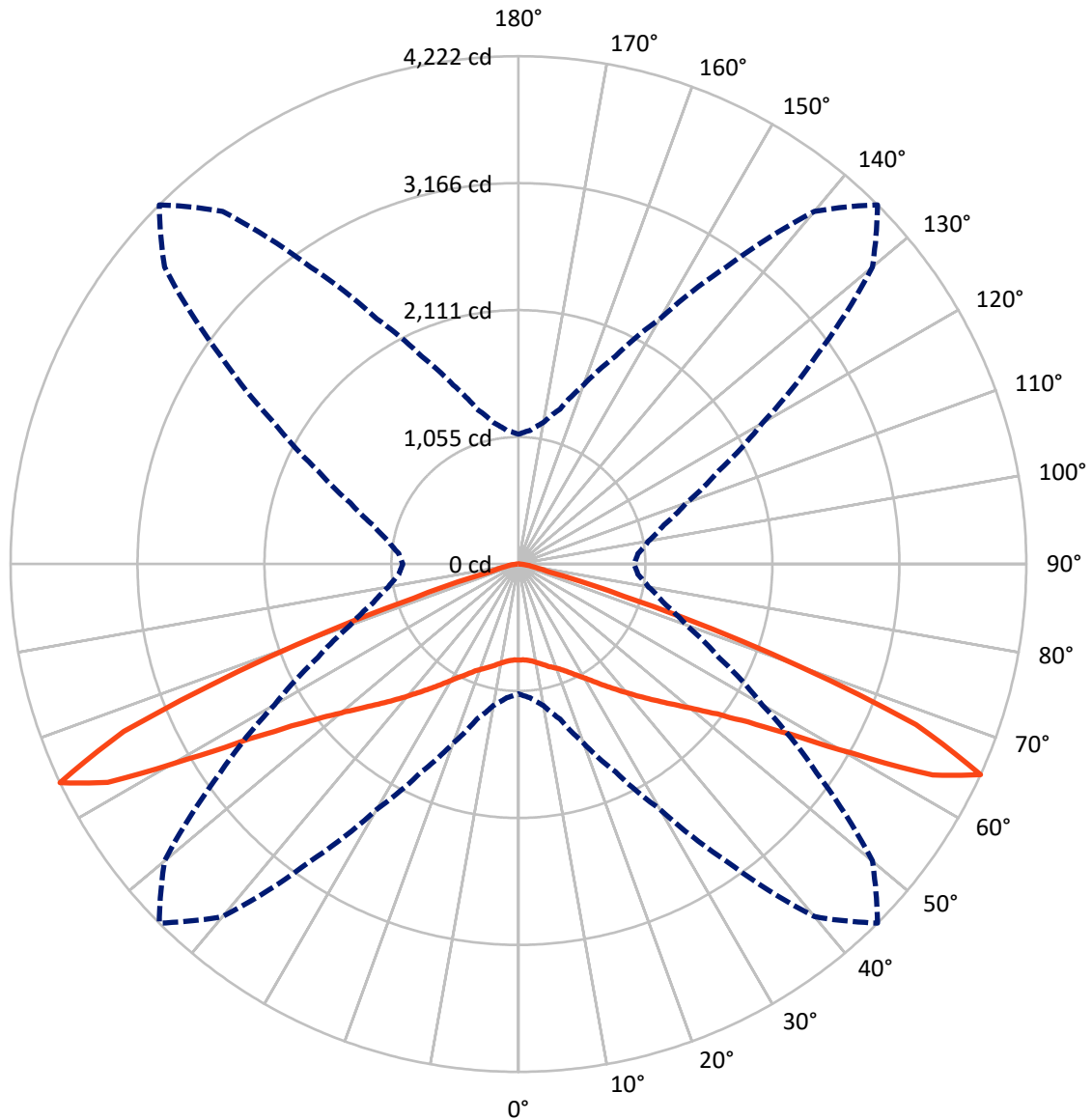
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3526.0	0.0	3526.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3526.0	0.0	3526.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7052.0	0.0	7052.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.8	1.1
10°-20°	249.4	3.5
20°-30°	466.4	6.6
30°-40°	788.8	11.2
40°-50°	1289.8	18.3
50°-60°	2050.9	29.1
60°-70°	1853.9	26.3
70°-80°	234.6	3.3
80°-90°	40.4	0.6
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°	7052.0	100.0
0°-180°	7052.0	100.0



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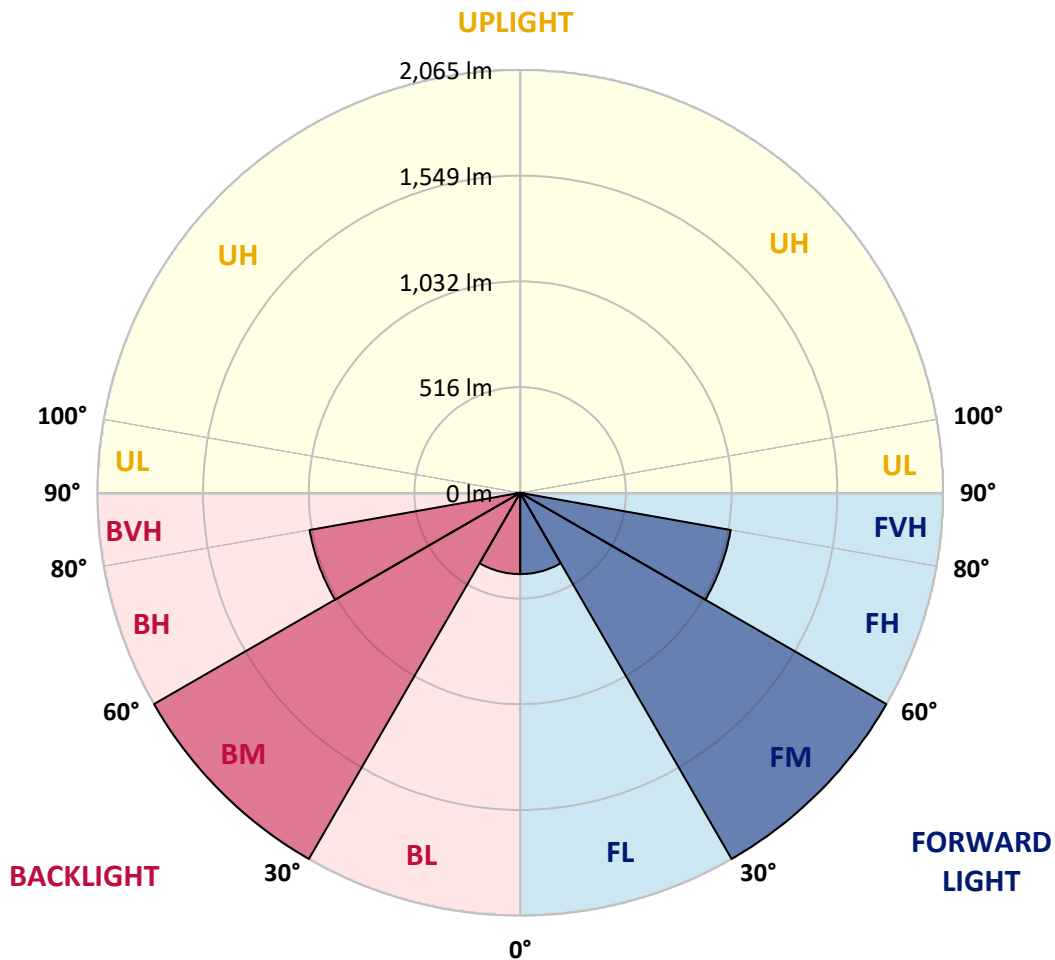
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	396.8	5.6			
FM	(30°-60°)	2064.8	29.3			
FH	(60°-80°)	1044.3	14.8			G1/1800
FVH	(80°-90°)	20.2	0.3			G1/100
BL	(0°-30°)	396.8	5.6	B1/500		
BM	(30°-60°)	2064.8	29.3	B2/2500		
BH	(60°-80°)	1044.3	14.8	B3/2500		G1/1800
BVH	(80°-90°)	20.2	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	797.9	797.9	797.9	797.9	797.9	797.9	797.9	797.9	797.9	797.9	797.9
2.5°	798.6	799.3	799.9	799.3	799.9	798.9	798.3	799.3	798.3	797.3	797.9
5°	805.5	805.9	805.9	804.9	805.9	805.2	804.2	805.5	804.5	803.6	804.2
7.5°	817.1	818.4	817.4	816.4	817.1	816.4	815.8	816.1	815.8	814.8	815.1
10°	832.6	833.6	832.9	832.6	833.3	832.9	832.3	832.0	832.3	831.3	831.3
12.5°	851.4	851.1	850.8	851.1	852.1	852.1	851.8	852.1	852.8	853.1	852.4
15°	869.9	870.6	870.6	870.6	872.6	874.2	875.2	875.9	877.2	877.5	876.2
17.5°	893.1	893.1	892.7	893.1	895.0	897.7	898.7	900.0	901.3	902.3	900.7
20°	918.8	919.5	919.5	920.1	922.8	925.8	925.8	926.4	925.8	926.4	925.4
22.5°	950.2	952.2	952.2	952.5	955.1	958.8	957.8	958.8	957.1	958.4	957.1
25°	991.1	994.1	993.5	993.5	995.4	997.8	998.1	1000.1	999.7	1001.4	1000.4
27.5°	1037.4	1042.0	1043.3	1043.0	1044.3	1046.6	1047.3	1049.6	1048.3	1049.6	1048.9
30°	1092.9	1094.9	1097.5	1098.5	1100.1	1102.4	1102.4	1102.8	1101.1	1103.1	1104.1
32.5°	1150.3	1154.0	1156.6	1162.6	1165.5	1167.2	1166.9	1167.5	1165.9	1168.5	1170.5
35°	1226.3	1228.9	1233.2	1237.9	1241.8	1241.5	1240.5	1240.8	1240.8	1243.1	1245.1
37.5°	1317.8	1318.4	1324.1	1330.7	1332.6	1330.7	1324.7	1323.4	1320.4	1323.4	1326.7
40°	1414.6	1416.9	1428.1	1432.4	1433.4	1429.7	1421.2	1416.2	1409.6	1413.2	1417.9
42.5°	1515.9	1520.6	1530.8	1538.4	1541.7	1539.4	1527.5	1519.9	1511.3	1513.3	1517.9
45°	1628.2	1633.9	1648.4	1655.7	1661.9	1658.3	1646.7	1635.2	1621.6	1622.6	1629.9
47.5°	1753.7	1759.4	1778.2	1790.4	1793.7	1793.0	1780.2	1764.3	1745.8	1745.2	1751.4
50°	1894.4	1900.1	1923.5	1942.3	1951.9	1950.9	1935.7	1913.3	1890.8	1891.1	1899.1
52.5°	2031.8	2038.8	2063.2	2095.6	2114.4	2127.9	2118.7	2097.6	2070.1	2070.8	2078.1
55°	2160.6	2172.2	2200.3	2244.2	2279.2	2317.2	2328.1	2327.4	2310.9	2315.5	2322.8
57.5°	2223.1	2240.2	2283.5	2352.9	2424.2	2501.5	2566.9	2615.8	2636.6	2667.9	2660.7
60°	2104.8	2132.2	2196.0	2298.0	2439.1	2600.2	2773.0	2941.7	3085.7	3194.4	3132.0
62.5°	1723.4	1759.0	1836.3	1967.1	2180.5	2438.4	2769.0	3168.0	3602.6	3864.8	3677.6
65°	1078.3	1115.3	1193.9	1334.0	1583.7	1904.3	2352.9	3014.1	3826.2	4221.5	3840.4
67.5°	420.4	440.6	483.2	572.7	760.3	1045.6	1495.8	2246.2	3217.5	3564.0	3157.7
70°	210.7	212.7	220.6	237.1	277.4	360.3	548.3	1041.3	1845.2	2228.7	1778.8
72.5°	152.3	152.6	156.5	163.8	176.7	195.2	230.9	318.7	600.1	917.2	562.5
75°	116.6	117.9	120.2	124.2	131.1	140.4	153.2	183.6	227.6	263.9	221.9
77.5°	89.8	92.5	94.1	97.8	102.1	108.3	112.0	123.5	143.7	151.3	149.0
80°	68.4	70.7	74.3	77.3	80.3	83.2	81.9	87.2	97.8	104.0	100.7
82.5°	43.6	46.2	56.8	59.4	60.8	62.8	60.4	60.8	65.4	69.4	65.4
85°	28.1	29.7	36.0	39.3	39.6	41.0	40.0	37.7	37.7	34.3	38.6
87.5°	12.9	13.2	16.2	19.2	19.8	17.8	17.5	16.8	13.5	12.9	13.9
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°	797.9	797.9	797.9	797.9	797.9	797.9	797.9	797.9
2.5°	797.6	798.3	798.6	799.6	799.9	799.9	800.2	800.9
5°	803.9	804.9	805.2	806.5	806.9	806.5	807.2	807.5
7.5°	815.1	816.8	817.4	818.7	817.8	819.1	819.4	819.4
10°	831.6	833.3	833.6	834.9	834.3	834.9	834.9	834.3
12.5°	853.4	853.8	852.8	853.8	852.4	853.1	852.1	851.4
15°	877.5	876.5	874.2	874.2	872.2	872.6	872.2	871.9
17.5°	901.0	899.0	897.3	896.7	895.0	894.7	893.7	893.7
20°	926.7	925.8	924.8	923.4	921.8	920.1	919.8	920.5
22.5°	957.8	957.5	957.5	956.8	954.5	952.8	951.8	951.8
25°	999.4	996.4	996.4	996.1	995.1	994.1	992.1	993.1
27.5°	1046.3	1044.7	1046.0	1045.6	1044.7	1044.7	1043.3	1043.3
30°	1104.1	1103.4	1105.4	1103.8	1100.5	1100.1	1098.8	1097.2
32.5°	1170.8	1170.2	1173.1	1171.1	1165.9	1162.9	1160.2	1158.9
35°	1245.1	1245.5	1249.1	1247.8	1241.8	1239.8	1235.2	1234.6
37.5°	1326.4	1331.7	1337.9	1339.3	1334.3	1333.0	1328.0	1325.4
40°	1421.8	1428.8	1438.3	1440.6	1435.4	1434.4	1427.4	1423.8
42.5°	1523.5	1535.4	1547.3	1549.3	1544.0	1538.7	1532.1	1529.5
45°	1637.2	1651.4	1666.9	1670.8	1662.9	1656.6	1648.1	1648.1
47.5°	1764.6	1782.5	1800.0	1810.9	1803.6	1797.0	1786.8	1780.2
50°	1915.2	1939.7	1962.5	1973.7	1962.1	1949.6	1931.8	1925.8
52.5°	2104.2	2130.6	2150.4	2144.5	2126.6	2109.1	2089.6	2081.7
55°	2345.3	2354.2	2354.2	2331.7	2296.1	2266.7	2235.9	2225.7
57.5°	2646.8	2612.5	2559.6	2492.6	2408.3	2335.0	2285.5	2262.0
60°	3001.2	2836.0	2649.4	2466.1	2315.5	2191.4	2117.7	2084.0
62.5°	3237.3	2805.3	2431.5	2137.2	1920.5	1770.9	1669.2	1629.6
65°	3025.6	2339.6	1839.0	1486.9	1250.7	1098.5	997.8	960.8
67.5°	2216.1	1466.1	979.3	701.8	514.2	410.2	368.9	351.7
70°	994.8	516.2	316.4	247.0	213.0	195.5	187.9	185.3
72.5°	299.9	217.0	183.0	165.1	151.6	143.0	136.7	136.1
75°	181.0	150.6	133.8	123.2	114.6	107.7	104.4	103.4
77.5°	126.5	110.6	102.7	95.1	88.5	83.2	80.3	77.9
80°	88.8	81.2	77.6	73.3	69.0	64.1	59.8	57.8
82.5°	59.4	57.8	57.8	55.2	51.5	46.9	38.3	36.3
85°	38.3	38.0	38.6	37.7	35.0	30.1	24.8	23.4
87.5°	17.8	18.2	20.1	19.8	19.2	15.9	12.6	11.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)