

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: P270194

Luminaire Tested: **GWC-AF-02-LED-E1-5NQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270194
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: GWC-AF-02-LED-E1-5NQ-7027-600
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7335.6 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

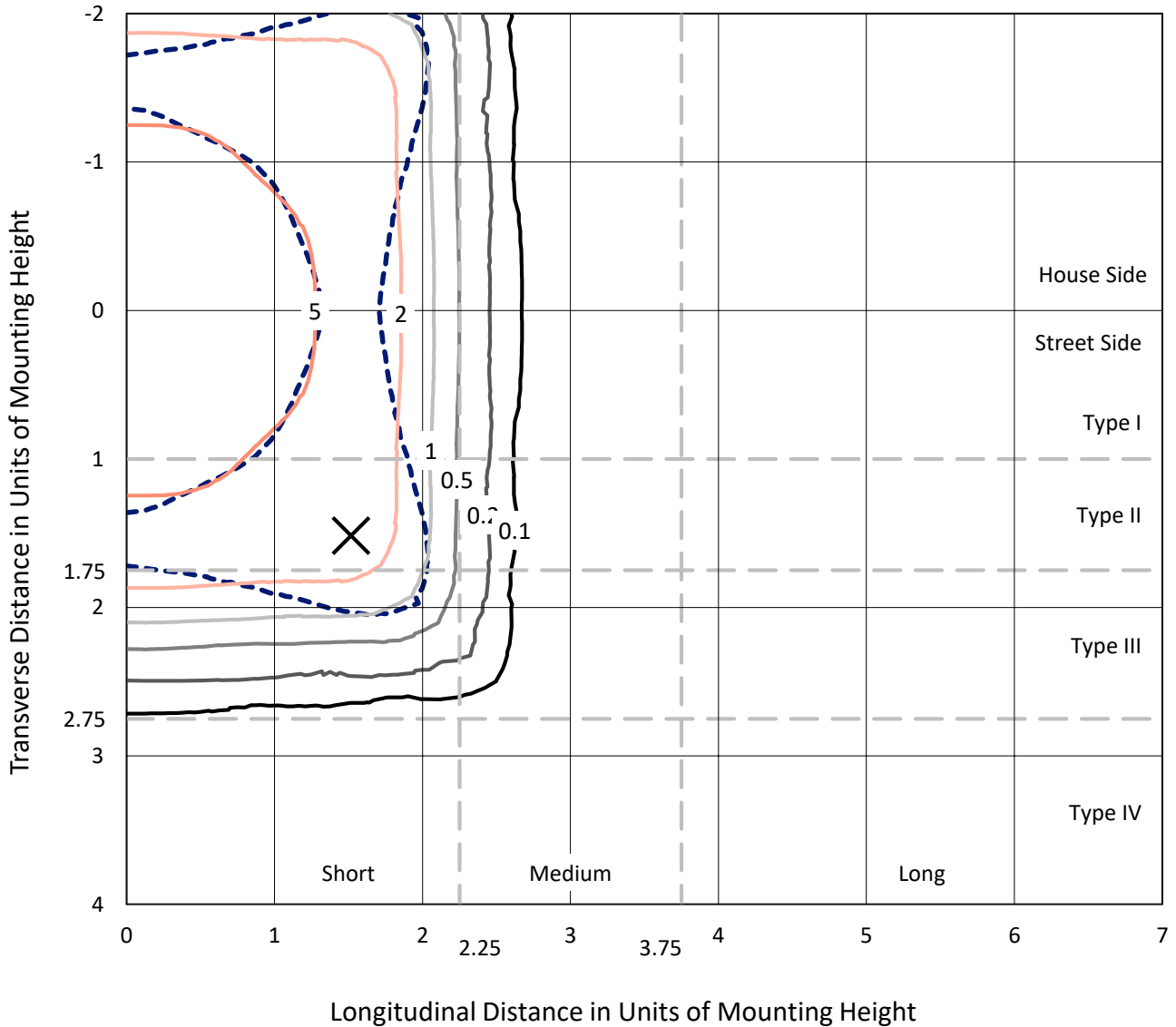
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

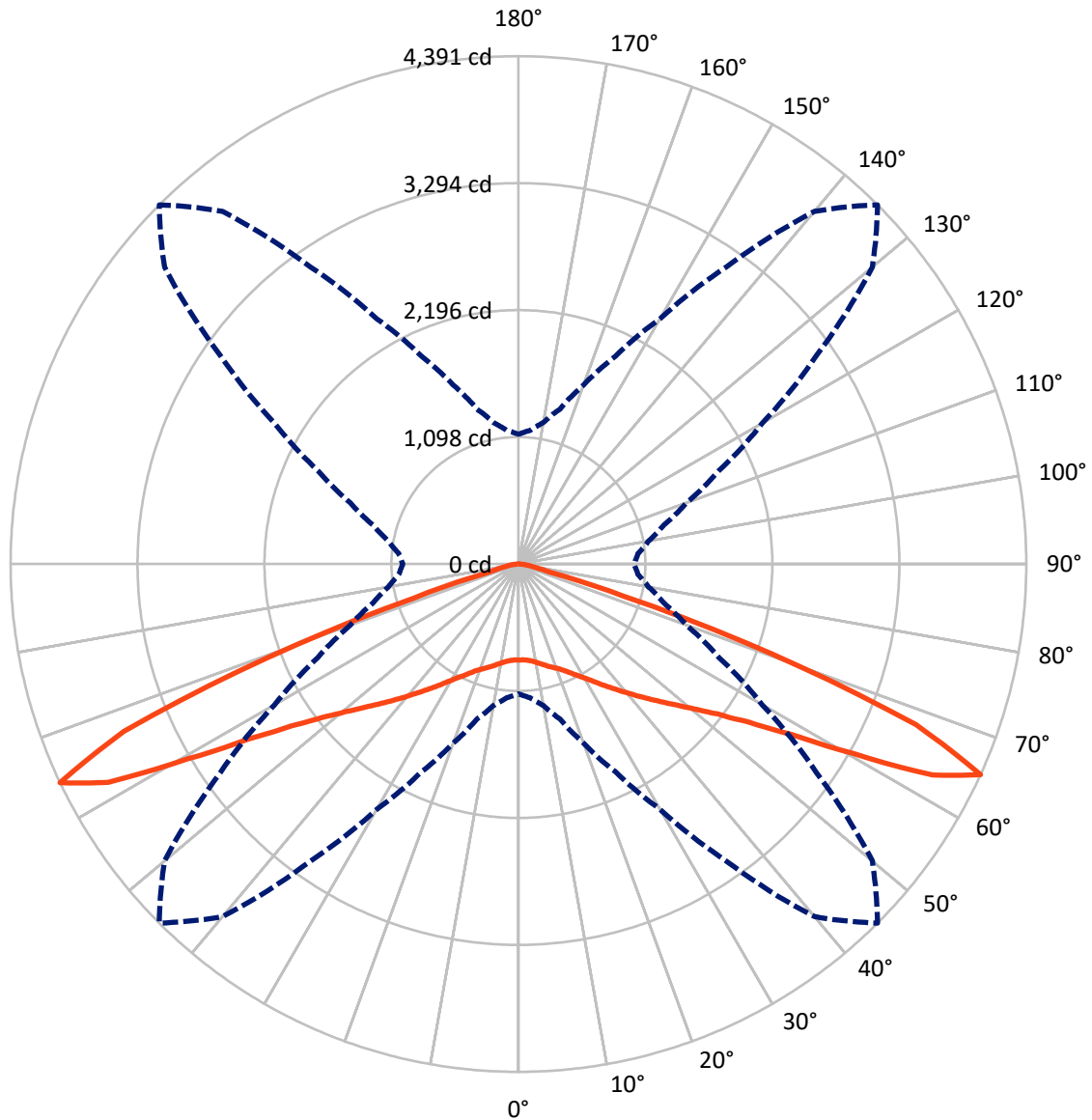
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.3 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	3667.8	0.0	3667.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3667.8	0.0	3667.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	7335.6	0.0	7335.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.9	1.1
10°-20°	259.5	3.5
20°-30°	485.2	6.6
30°-40°	820.5	11.2
40°-50°	1341.6	18.3
50°-60°	2133.4	29.1
60°-70°	1928.5	26.3
70°-80°	244.1	3.3
80°-90°	42.0	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°	7335.6	100.0
0°-180°	7335.6	100.0



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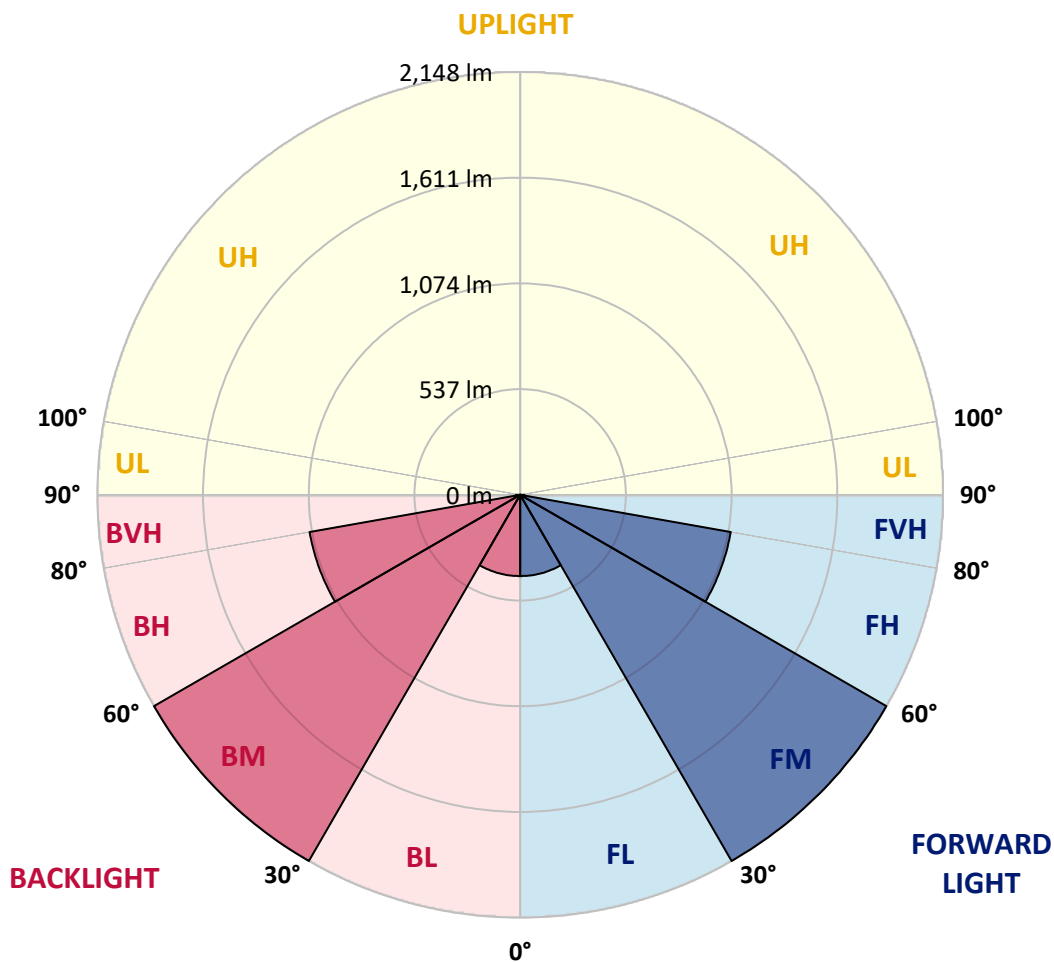
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	412.8	5.6			
FM	(30°-60°)	2147.8	29.3			
FH	(60°-80°)	1086.3	14.8			G1/1800
FVH	(80°-90°)	21.0	0.3			G1/100
BL	(0°-30°)	412.8	5.6	B1/500		
BM	(30°-60°)	2147.8	29.3	B2/2500		
BH	(60°-80°)	1086.3	14.8	B3/2500		G1/1800
BVH	(80°-90°)	21.0	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°	830.0	830.0	830.0	830.0	830.0	830.0	830.0	830.0	830.0	830.0	830.0
2.5°	830.8	831.4	832.1	831.4	832.1	831.0	830.4	831.4	830.4	829.3	830.0
5°	837.8	838.3	838.3	837.2	838.3	837.6	836.5	837.8	837.0	835.9	836.5
7.5°	849.9	851.4	850.2	849.3	849.9	849.3	848.5	848.9	848.5	847.6	847.9
10°	866.1	867.1	866.4	866.1	866.8	866.4	865.7	865.3	865.7	864.7	864.7
12.5°	885.6	885.3	885.0	885.3	886.4	886.4	886.0	886.4	887.0	887.3	886.6
15°	905.0	905.6	905.6	905.6	907.6	909.4	910.4	911.2	912.5	912.8	911.4
17.5°	928.9	928.9	928.6	928.9	931.1	933.8	934.7	936.2	937.6	938.5	936.8
20°	955.7	956.4	956.4	957.1	959.8	963.1	963.1	963.7	963.1	963.7	962.7
22.5°	988.5	990.6	990.6	990.8	993.5	997.4	996.3	997.4	995.6	996.9	995.6
25°	1031.1	1034.0	1033.4	1033.4	1035.4	1037.9	1038.3	1040.2	1040.0	1041.7	1040.6
27.5°	1079.1	1084.0	1085.3	1085.0	1086.3	1088.7	1089.5	1091.8	1090.5	1091.8	1091.1
30°	1136.8	1139.0	1141.7	1142.6	1144.4	1146.7	1146.7	1147.1	1145.3	1147.5	1148.6
32.5°	1196.6	1200.3	1203.1	1209.3	1212.4	1214.1	1213.8	1214.5	1212.7	1215.4	1217.6
35°	1275.7	1278.4	1282.8	1287.6	1291.8	1291.5	1290.3	1290.8	1290.8	1293.1	1295.1
37.5°	1370.8	1371.4	1377.3	1384.2	1386.3	1384.2	1378.0	1376.7	1373.5	1376.7	1380.1
40°	1471.5	1473.8	1485.5	1490.0	1491.0	1487.2	1478.3	1473.2	1466.4	1470.0	1474.8
42.5°	1577.0	1581.7	1592.3	1600.3	1603.7	1601.3	1588.9	1581.0	1572.2	1574.2	1579.0
45°	1693.8	1699.6	1714.7	1722.2	1728.8	1724.9	1713.0	1700.9	1686.8	1687.8	1695.5
47.5°	1824.3	1830.0	1849.7	1862.4	1865.8	1865.2	1851.8	1835.2	1816.1	1815.4	1821.9
50°	1970.6	1976.5	2000.9	2020.5	2030.3	2029.5	2013.6	1990.3	1966.8	1967.2	1975.5
52.5°	2113.5	2120.8	2146.2	2179.8	2199.4	2213.6	2203.9	2182.0	2153.3	2154.0	2161.6
55°	2247.5	2259.5	2288.7	2334.4	2370.8	2410.4	2421.7	2421.0	2403.9	2408.6	2416.3
57.5°	2312.4	2330.4	2375.3	2447.5	2521.7	2602.1	2670.1	2721.0	2742.5	2775.3	2767.7
60°	2189.4	2217.9	2284.3	2390.5	2537.2	2704.7	2884.5	3060.0	3209.9	3322.8	3258.0
62.5°	1792.7	1829.8	1910.2	2046.2	2268.1	2536.5	2880.3	3295.3	3747.5	4020.3	3825.5
65°	1121.8	1160.3	1241.9	1387.6	1647.3	1980.9	2447.5	3135.3	3980.1	4391.4	3994.9
67.5°	437.4	458.2	502.6	595.8	790.9	1087.7	1556.0	2336.5	3346.9	3707.2	3284.7
70°	219.1	221.3	229.4	246.7	288.5	374.9	570.3	1083.3	1919.5	2318.3	1850.4
72.5°	158.5	158.7	162.9	170.4	183.9	203.0	240.1	331.6	624.2	954.1	585.1
75°	121.4	122.7	125.0	129.1	136.5	146.1	159.4	191.0	236.8	274.5	230.9
77.5°	93.5	96.2	97.9	101.7	106.2	112.6	116.5	128.5	149.5	157.4	155.0
80°	71.1	73.5	77.3	80.4	83.5	86.5	85.2	90.6	101.7	108.2	104.8
82.5°	45.4	48.1	59.1	61.9	63.2	65.2	62.9	63.2	68.0	72.1	68.0
85°	29.3	30.9	37.5	41.0	41.2	42.6	41.6	39.2	39.2	35.8	40.2
87.5°	13.5	13.7	16.9	19.9	20.7	18.5	18.2	17.5	14.2	13.5	14.5
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°	830.0	830.0	830.0	830.0	830.0	830.0	830.0	830.0
2.5°	829.7	830.4	830.8	831.7	832.1	832.1	832.4	833.1
5°	836.2	837.2	837.6	838.9	839.2	838.9	839.6	839.9
7.5°	847.9	849.5	850.2	851.7	850.7	852.0	852.3	852.3
10°	865.1	866.8	867.1	868.5	867.9	868.5	868.5	867.9
12.5°	887.7	888.1	887.0	888.1	886.6	887.3	886.4	885.6
15°	912.8	911.8	909.4	909.4	907.3	907.6	907.3	907.0
17.5°	937.2	935.1	933.3	932.7	931.1	930.6	929.7	929.7
20°	964.1	963.1	961.9	960.6	958.9	957.1	956.9	957.6
22.5°	996.3	996.0	996.0	995.3	992.8	991.2	990.1	990.1
25°	1039.6	1036.6	1036.6	1036.1	1035.1	1034.0	1032.1	1033.1
27.5°	1088.3	1086.7	1088.0	1087.7	1086.7	1086.7	1085.3	1085.3
30°	1148.6	1147.9	1149.9	1148.2	1144.7	1144.4	1143.1	1141.2
32.5°	1217.9	1217.3	1220.3	1218.2	1212.7	1209.7	1207.0	1205.5
35°	1295.1	1295.5	1299.3	1298.0	1291.8	1289.6	1284.8	1284.1
37.5°	1379.6	1385.1	1391.7	1393.1	1387.9	1386.5	1381.5	1378.7
40°	1479.0	1486.2	1496.1	1498.6	1493.2	1492.1	1484.9	1481.0
42.5°	1584.8	1597.1	1609.6	1611.6	1606.1	1600.6	1593.8	1591.0
45°	1702.9	1717.7	1733.9	1738.0	1729.7	1723.3	1714.3	1714.3
47.5°	1835.5	1854.1	1872.3	1883.7	1876.1	1869.3	1858.7	1851.8
50°	1992.4	2017.8	2041.4	2053.0	2041.0	2028.1	2009.5	2003.3
52.5°	2188.8	2216.3	2236.9	2230.8	2212.2	2193.9	2173.7	2165.5
55°	2439.5	2448.9	2448.9	2425.6	2388.5	2357.8	2325.8	2315.2
57.5°	2753.2	2717.6	2662.5	2592.8	2505.3	2428.9	2377.4	2353.0
60°	3121.9	2950.2	2756.0	2565.3	2408.6	2279.4	2202.9	2167.8
62.5°	3367.6	2918.1	2529.3	2223.1	1997.8	1842.2	1736.3	1695.1
65°	3147.3	2433.8	1912.9	1546.7	1301.0	1142.6	1037.9	999.5
67.5°	2305.2	1525.1	1018.7	730.1	534.9	426.6	383.8	365.9
70°	1034.8	536.9	329.0	256.9	221.6	203.3	195.6	192.7
72.5°	311.9	225.7	190.4	171.8	157.7	148.8	142.2	141.6
75°	188.3	156.7	139.1	128.2	119.3	112.0	108.5	107.5
77.5°	131.6	115.2	106.9	99.0	92.0	86.5	83.5	81.0
80°	92.4	84.5	80.8	76.3	71.9	66.7	62.3	60.1
82.5°	61.9	60.1	60.1	57.4	53.5	48.8	39.9	37.8
85°	39.9	39.5	40.2	39.2	36.4	31.4	25.8	24.4
87.5°	18.5	19.0	21.0	20.7	19.9	16.4	13.0	12.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)