

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: P200073

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200073
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-01-LED-E1-5NQ-1200
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 4000K, 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: 7358.1 lumens
Efficiency: N/A
Efficacy: 109.8 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

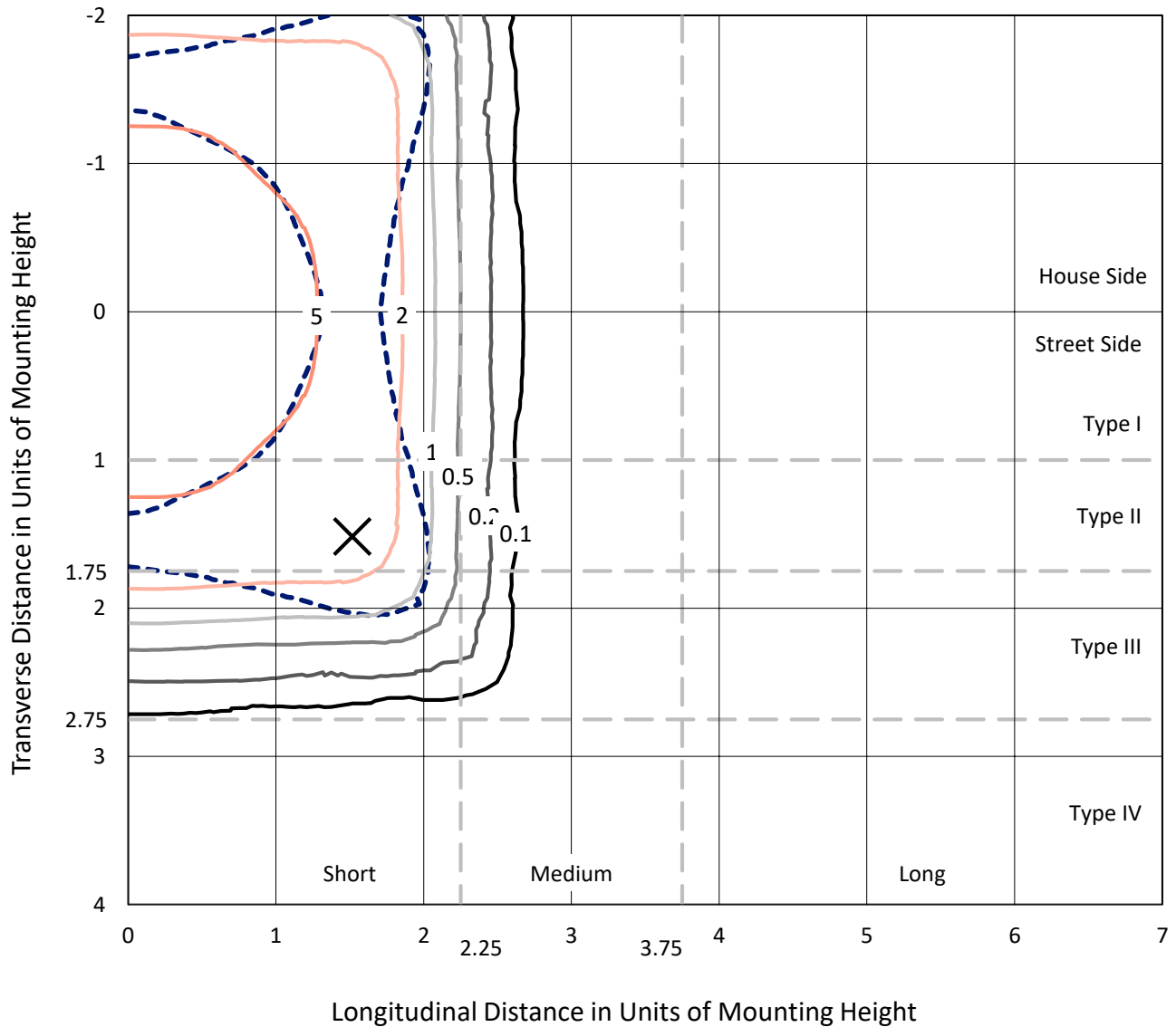


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Iso-Footcandle Lines of Horizontal Illumination

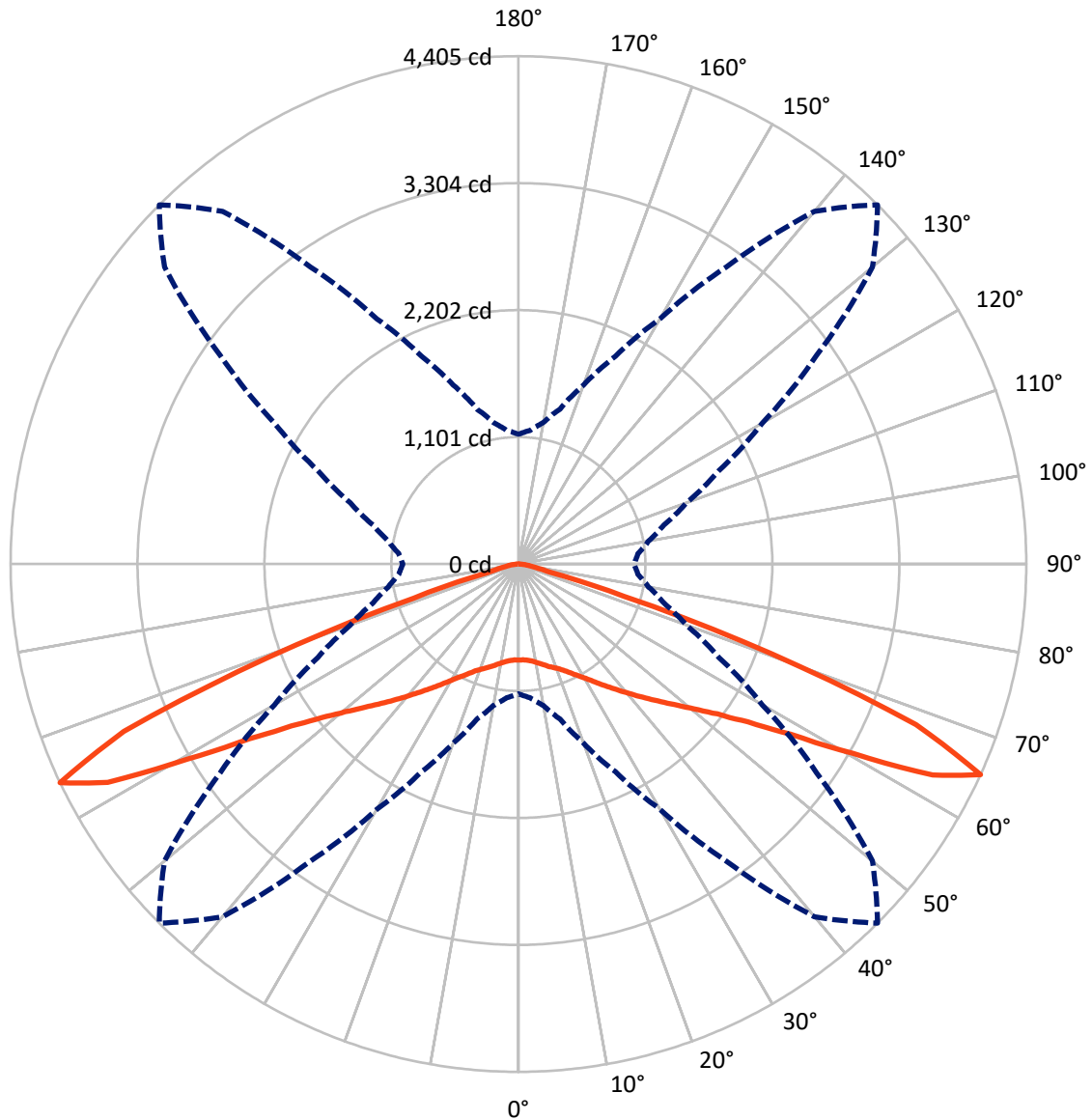
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.3 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	3679.0	0.0	3679.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3679.0	0.0	3679.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7358.1	0.0	7358.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.1	1.1
10°-20°	260.3	3.5
20°-30°	486.6	6.6
30°-40°	823.0	11.2
40°-50°	1345.8	18.3
50°-60°	2140.0	29.1
60°-70°	1934.4	26.3
70°-80°	244.8	3.3
80°-90°	42.1	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°	7358.1	100.0
0°-180°	7358.1	100.0



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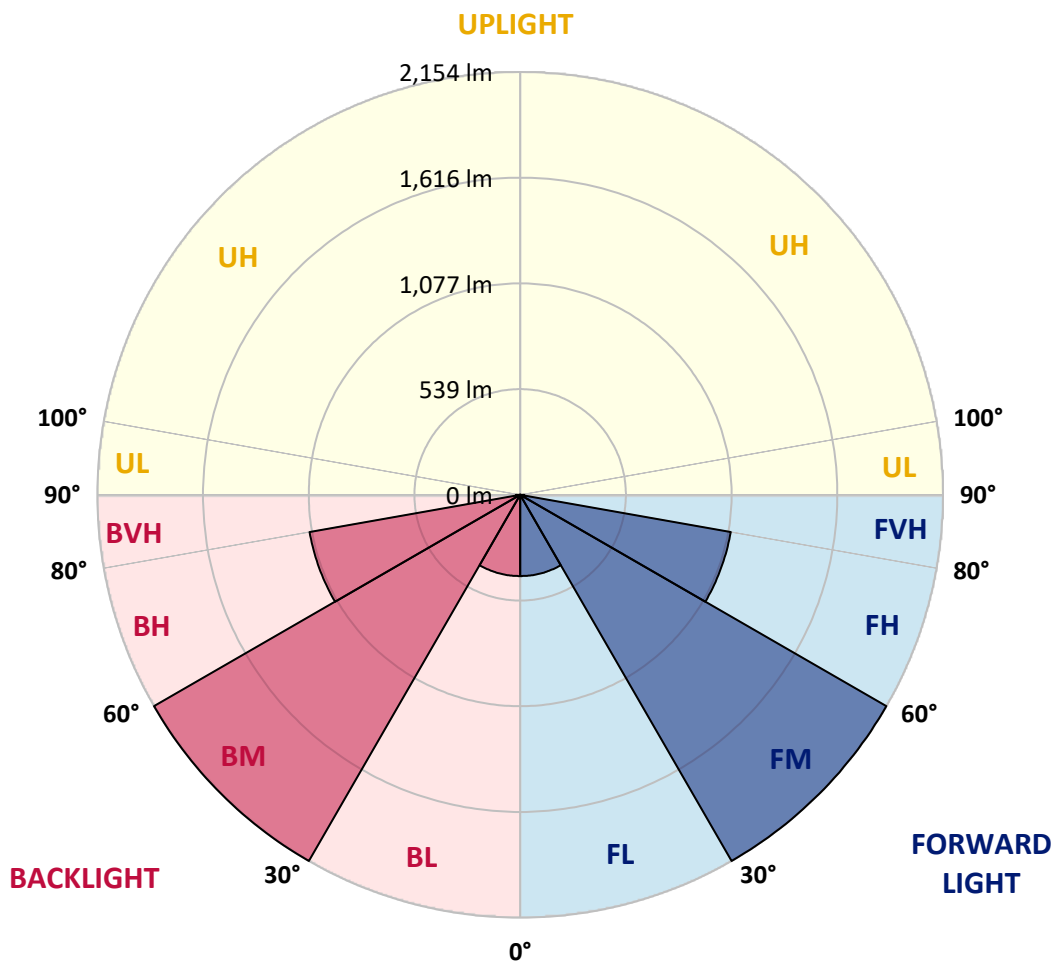
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	414.0	5.6			
FM	(30°-60°)	2154.4	29.3			
FH	(60°-80°)	1089.6	14.8			G1/1800
FVH	(80°-90°)	21.1	0.3			G1/100
BL	(0°-30°)	414.0	5.6	B1/500		
BM	(30°-60°)	2154.4	29.3	B2/2500		
BH	(60°-80°)	1089.6	14.8	B3/2500		G1/1800
BVH	(80°-90°)	21.1	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°	832.6	832.6	832.6	832.6	832.6	832.6	832.6	832.6	832.6	832.6	832.6
2.5°	833.3	833.9	834.6	833.9	834.6	833.6	832.9	833.9	832.9	831.9	832.6
5°	840.5	840.9	840.9	839.8	840.9	840.1	839.1	840.5	839.4	838.4	839.1
7.5°	852.5	854.0	852.9	851.9	852.5	851.9	851.2	851.5	851.2	850.2	850.5
10°	868.8	869.8	869.1	868.8	869.4	869.1	868.4	868.1	868.4	867.4	867.4
12.5°	888.4	888.0	887.7	888.0	889.0	889.0	888.7	889.0	889.8	890.2	889.5
15°	907.7	908.4	908.4	908.4	910.4	912.2	913.2	913.9	915.2	915.6	914.2
17.5°	931.8	931.8	931.5	931.8	933.9	936.6	937.6	939.1	940.4	941.4	939.8
20°	958.7	959.4	959.4	960.0	962.8	966.0	966.0	966.6	966.0	966.6	965.6
22.5°	991.4	993.5	993.5	993.8	996.6	1000.4	999.3	1000.4	998.7	1000.0	998.7
25°	1034.2	1037.3	1036.6	1036.6	1038.6	1041.1	1041.4	1043.5	1043.1	1044.8	1043.8
27.5°	1082.4	1087.2	1088.6	1088.3	1089.6	1092.1	1092.7	1095.2	1093.7	1095.2	1094.5
30°	1140.3	1142.3	1145.1	1146.1	1147.9	1150.3	1150.3	1150.6	1148.9	1151.0	1152.0
32.5°	1200.2	1204.0	1206.8	1213.0	1216.1	1217.8	1217.5	1218.2	1216.5	1219.3	1221.3
35°	1279.5	1282.3	1286.8	1291.6	1295.8	1295.4	1294.3	1294.6	1294.6	1297.1	1299.1
37.5°	1374.9	1375.7	1381.5	1388.5	1390.5	1388.5	1382.2	1380.9	1377.7	1380.9	1384.3
40°	1475.9	1478.4	1490.1	1494.5	1495.6	1491.8	1482.9	1477.7	1470.8	1474.6	1479.4
42.5°	1581.8	1586.6	1597.2	1605.2	1608.6	1606.2	1593.9	1585.9	1576.9	1579.0	1583.8
45°	1698.9	1704.7	1719.9	1727.6	1734.1	1730.3	1718.3	1706.2	1692.1	1693.1	1700.7
47.5°	1829.9	1835.7	1855.3	1868.1	1871.6	1870.9	1857.5	1840.9	1821.6	1821.0	1827.5
50°	1976.6	1982.5	2007.0	2026.7	2036.6	2035.6	2019.7	1996.3	1972.9	1973.3	1981.5
52.5°	2120.1	2127.2	2152.8	2186.6	2206.2	2220.3	2210.7	2188.6	2160.0	2160.7	2168.2
55°	2254.4	2266.4	2295.8	2341.6	2378.2	2417.7	2429.1	2428.5	2411.2	2416.0	2423.6
57.5°	2319.5	2337.4	2382.7	2455.0	2529.5	2610.1	2678.3	2729.3	2751.0	2783.8	2776.2
60°	2196.2	2224.8	2291.3	2397.8	2544.9	2713.1	2893.3	3069.5	3219.6	3333.1	3267.9
62.5°	1798.1	1835.4	1916.0	2052.4	2275.1	2544.3	2889.2	3305.5	3758.9	4032.6	3837.2
65°	1125.1	1163.7	1245.7	1391.8	1652.4	1987.0	2455.0	3144.9	3992.3	4404.7	4007.1
67.5°	438.6	459.7	504.1	597.5	793.3	1091.0	1560.7	2343.7	3357.1	3718.6	3294.8
70°	219.8	221.9	230.2	247.5	289.5	375.9	572.0	1086.6	1925.3	2325.4	1856.0
72.5°	158.9	159.2	163.4	170.9	184.3	203.7	240.9	332.6	626.1	957.0	586.9
75°	121.6	123.1	125.4	129.6	136.8	146.5	159.9	191.6	237.4	275.4	231.6
77.5°	93.7	96.5	98.2	102.0	106.5	113.0	116.8	128.9	149.9	157.8	155.4
80°	71.3	73.8	77.5	80.6	83.8	86.8	85.4	90.9	102.0	108.5	105.1
82.5°	45.5	48.3	59.2	62.0	63.4	65.5	63.0	63.4	68.2	72.3	68.2
85°	29.3	31.0	37.5	41.0	41.3	42.8	41.7	39.3	39.3	35.8	40.3
87.5°	13.4	13.8	16.9	19.9	20.7	18.6	18.3	17.6	14.1	13.4	14.4
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°	832.6	832.6	832.6	832.6	832.6	832.6	832.6	832.6
2.5°	832.3	832.9	833.3	834.3	834.6	834.6	834.9	835.6
5°	838.8	839.8	840.1	841.6	841.9	841.6	842.2	842.6
7.5°	850.5	852.2	852.9	854.3	853.2	854.7	855.0	855.0
10°	867.8	869.4	869.8	871.1	870.4	871.1	871.1	870.4
12.5°	890.5	890.8	889.8	890.8	889.5	890.2	889.0	888.4
15°	915.6	914.6	912.2	912.2	910.1	910.4	910.1	909.8
17.5°	940.1	938.0	936.3	935.6	933.9	933.5	932.5	932.5
20°	967.0	966.0	964.9	963.5	961.8	960.0	959.7	960.4
22.5°	999.3	999.0	999.0	998.3	995.9	994.2	993.2	993.2
25°	1042.8	1039.7	1039.7	1039.3	1038.3	1037.3	1035.2	1036.2
27.5°	1091.7	1090.0	1091.4	1091.0	1090.0	1090.0	1088.6	1088.6
30°	1152.0	1151.3	1153.4	1151.6	1148.3	1147.9	1146.5	1144.8
32.5°	1221.6	1221.0	1224.1	1222.0	1216.5	1213.3	1210.6	1209.2
35°	1299.1	1299.6	1303.3	1301.9	1295.8	1293.6	1288.8	1288.1
37.5°	1384.0	1389.5	1396.0	1397.4	1392.2	1390.8	1385.7	1382.9
40°	1483.6	1490.7	1500.8	1503.2	1497.7	1496.7	1489.4	1485.6
42.5°	1589.7	1602.0	1614.5	1616.6	1611.0	1605.5	1598.7	1595.9
45°	1708.2	1723.1	1739.2	1743.4	1735.1	1728.6	1719.6	1719.6
47.5°	1841.2	1859.8	1878.1	1889.5	1881.9	1875.0	1864.3	1857.5
50°	1998.3	2023.9	2047.6	2059.4	2047.3	2034.2	2015.6	2009.4
52.5°	2195.5	2223.1	2243.7	2237.5	2218.9	2200.7	2180.3	2172.0
55°	2447.1	2456.4	2456.4	2432.9	2395.8	2365.1	2332.9	2322.3
57.5°	2761.7	2725.9	2670.7	2600.8	2512.9	2436.4	2384.7	2360.3
60°	3131.5	2959.2	2764.4	2573.2	2416.0	2286.5	2209.6	2174.5
62.5°	3377.9	2927.1	2537.0	2229.9	2003.9	1847.8	1741.7	1700.2
65°	3156.9	2441.2	1918.7	1551.4	1305.0	1146.1	1041.1	1002.5
67.5°	2312.3	1529.7	1021.7	732.3	536.5	428.0	384.9	367.0
70°	1038.0	538.6	330.1	257.8	222.3	204.0	196.1	193.3
72.5°	312.9	226.4	190.9	172.3	158.1	149.2	142.7	142.0
75°	188.8	157.1	139.5	128.6	119.6	112.3	108.9	107.8
77.5°	132.0	115.5	107.2	99.2	92.4	86.8	83.8	81.3
80°	92.7	84.8	81.0	76.5	72.0	66.9	62.4	60.4
82.5°	62.0	60.4	60.4	57.6	53.8	48.9	40.0	38.0
85°	40.0	39.6	40.3	39.3	36.5	31.4	25.9	24.4
87.5°	18.6	18.9	21.0	20.7	19.9	16.6	13.1	12.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)