

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: P270144

Luminaire Tested: **GWC-AF-01-LED-E1-5NQ-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270144
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-7027-1200
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 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: 6249.1 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - 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

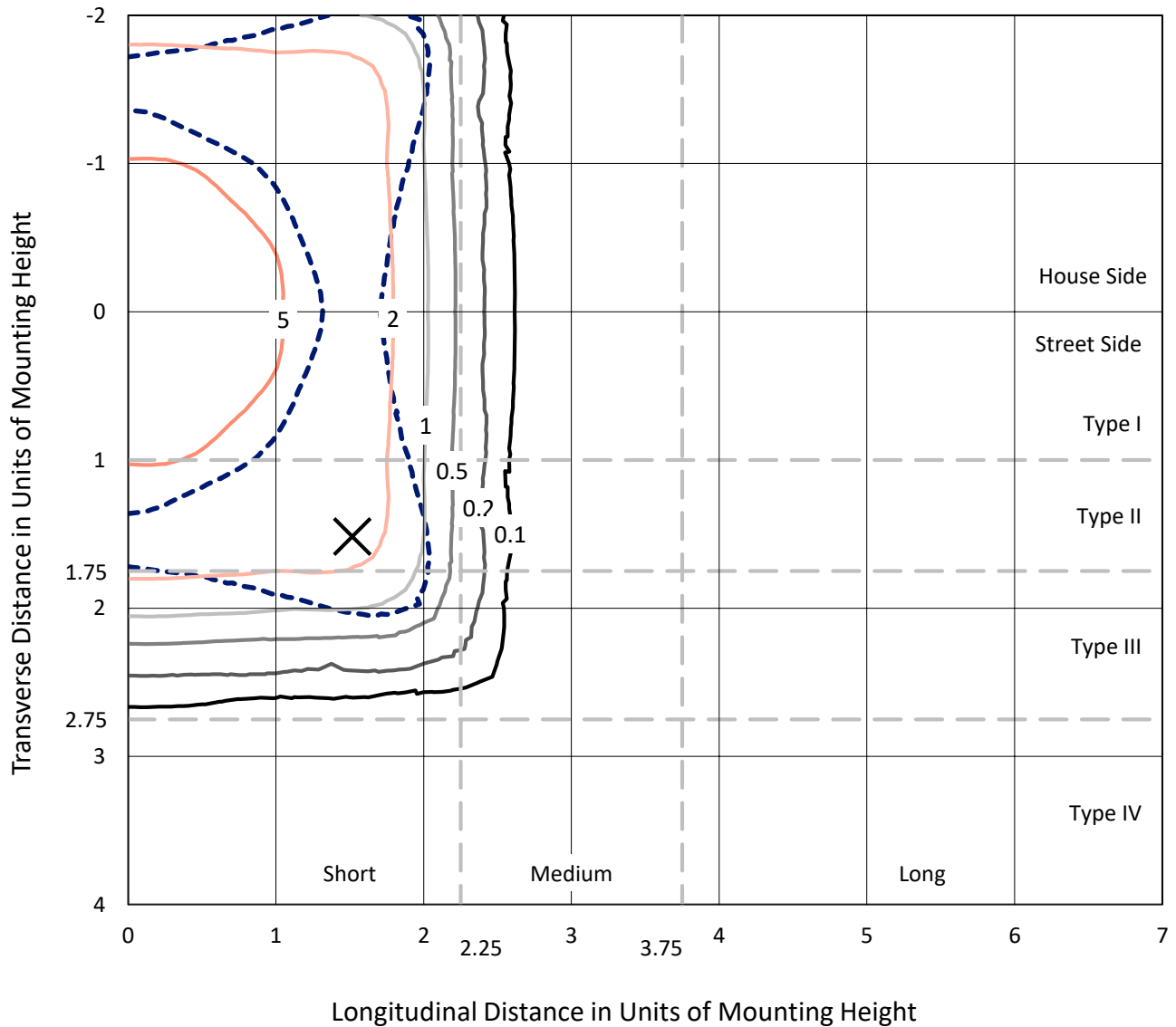


REPORT NUMBER: P270144

CATALOG NUMBER: GWC-AF-01-LED-E1-5NQ-7027-1200

Iso-Footcandle Lines of Horizontal Illumination

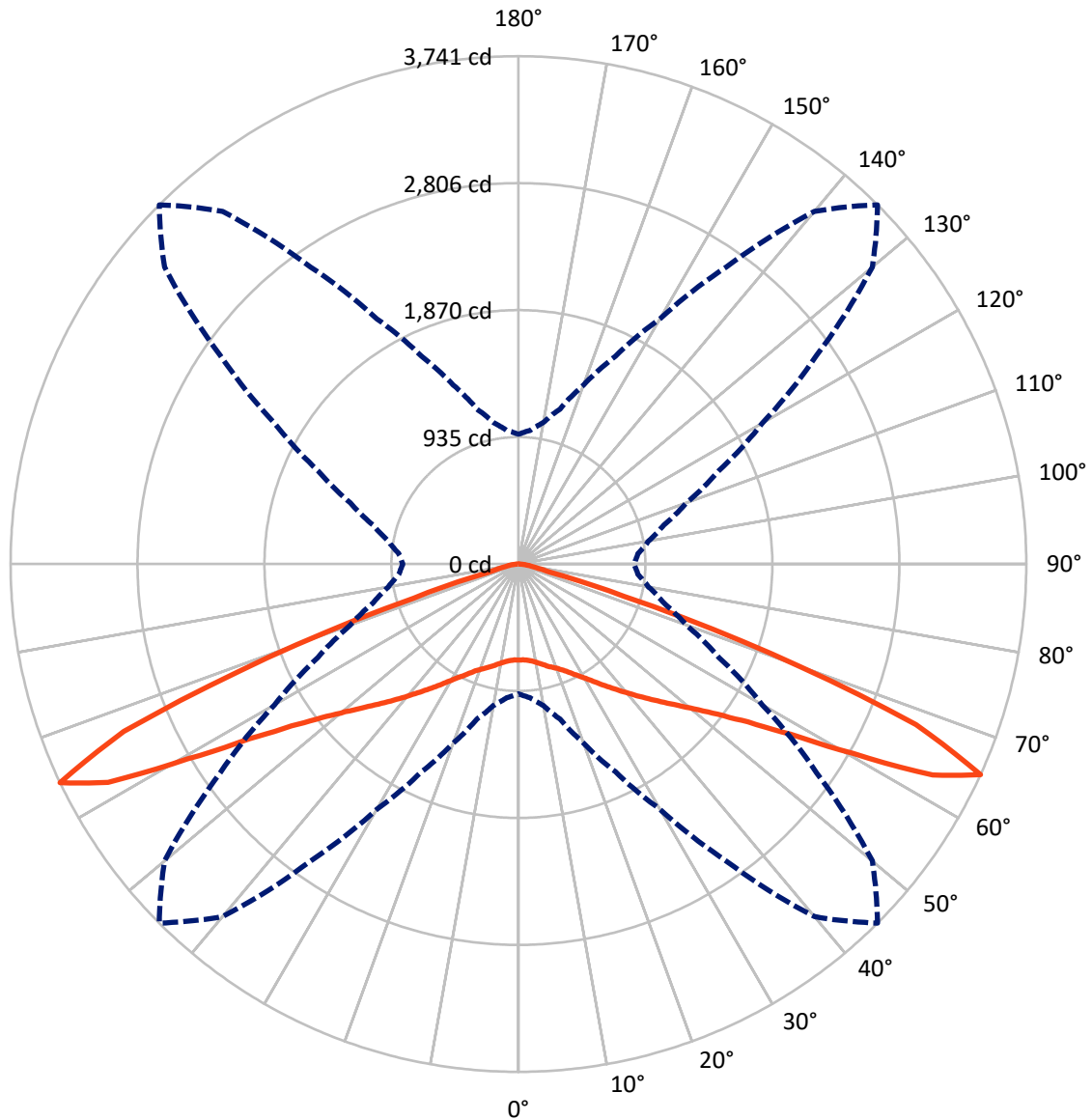
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.1 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P270144
CATALOG NUMBER: GWC-AF-01-LED-E1-5NQ-7027-1200

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GWC-AF-01-LED-E1-5NQ-7027-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3124.5	0.0	3124.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3124.5	0.0	3124.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6249.1	0.0	6249.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	1.1
10°-20°	221.0	3.5
20°-30°	413.3	6.6
30°-40°	699.0	11.2
40°-50°	1142.9	18.3
50°-60°	1817.4	29.1
60°-70°	1642.8	26.3
70°-80°	207.9	3.3
80°-90°	35.8	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°	6249.1	100.0
0°-180°	6249.1	100.0



REPORT NUMBER: P270144

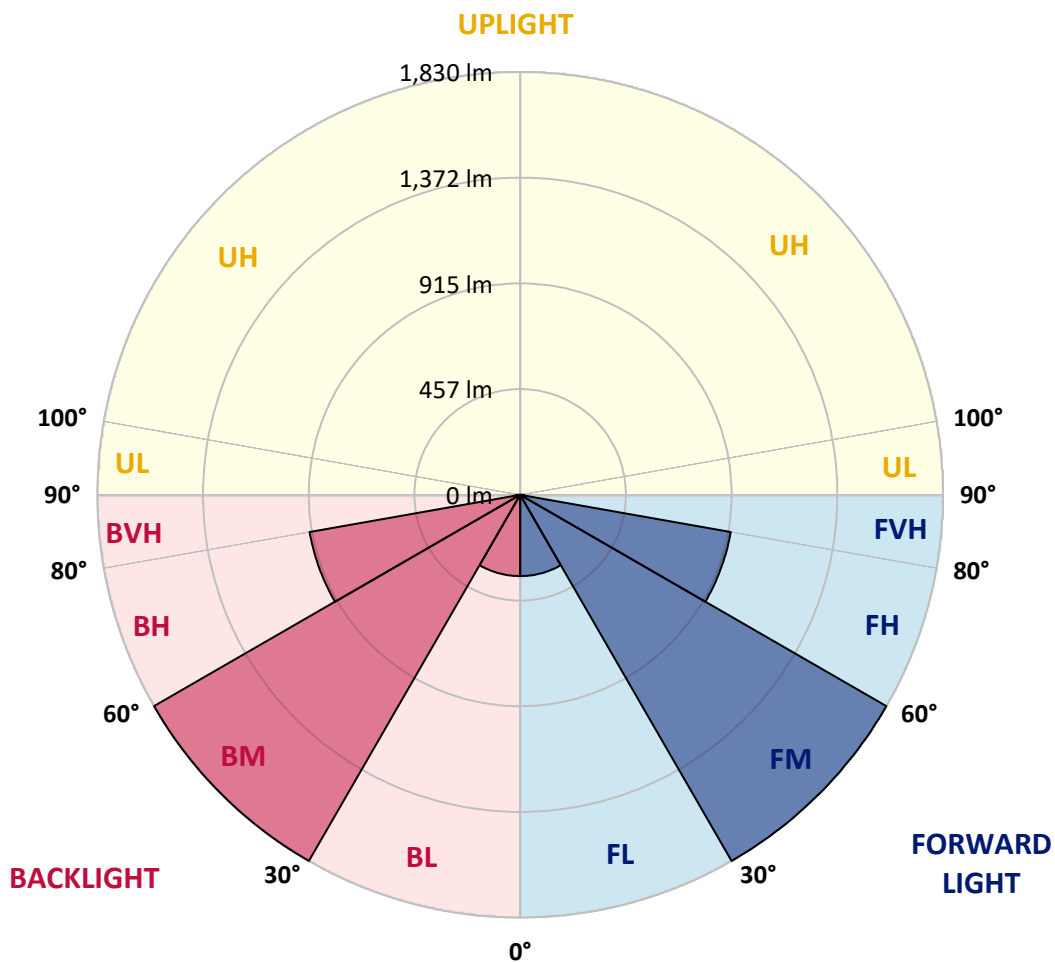
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	351.6	5.6			
FM	(30°-60°)	1829.7	29.3			
FH	(60°-80°)	925.4	14.8			G1/1800
FVH	(80°-90°)	17.9	0.3			G1/100
BL	(0°-30°)	351.6	5.6	B1/500		
BM	(30°-60°)	1829.7	29.3	B2/2500		
BH	(60°-80°)	925.4	14.8	B2/1000		G1/1800
BVH	(80°-90°)	17.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





REPORT NUMBER: P270144

CATALOG NUMBER: GWC-AF-01-LED-E1-5NQ-7027-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	707.1	707.1	707.1	707.1	707.1	707.1	707.1	707.1	707.1	707.1	707.1
2.5°	707.7	708.3	708.9	708.3	708.9	708.0	707.3	708.3	707.3	706.4	707.1
5°	713.9	714.2	714.2	713.3	714.2	713.6	712.6	713.9	713.0	712.0	712.6
7.5°	724.0	725.2	724.4	723.5	724.0	723.5	722.9	723.1	722.9	722.0	722.2
10°	737.8	738.6	738.0	737.8	738.3	738.0	737.5	737.1	737.5	736.6	736.6
12.5°	754.4	754.1	753.9	754.1	755.0	755.0	754.8	755.0	755.7	756.0	755.4
15°	770.8	771.5	771.5	771.5	773.3	774.7	775.5	776.1	777.4	777.7	776.5
17.5°	791.3	791.3	791.0	791.3	793.2	795.4	796.3	797.5	798.8	799.6	798.1
20°	814.3	814.9	814.9	815.4	817.6	820.3	820.3	821.0	820.3	821.0	820.1
22.5°	842.0	843.8	843.8	844.0	846.5	849.5	848.8	849.5	848.2	849.3	848.2
25°	878.4	881.0	880.3	880.3	882.0	884.1	884.4	886.2	885.9	887.3	886.4
27.5°	919.2	923.4	924.5	924.3	925.4	927.5	928.0	930.1	928.9	930.1	929.6
30°	968.5	970.2	972.5	973.5	974.9	976.9	976.9	977.3	975.7	977.5	978.4
32.5°	1019.3	1022.6	1025.0	1030.1	1032.8	1034.3	1033.9	1034.6	1033.1	1035.4	1037.3
35°	1086.7	1089.0	1092.8	1096.9	1100.5	1100.2	1099.3	1099.5	1099.5	1101.6	1103.4
37.5°	1167.7	1168.3	1173.2	1179.1	1180.9	1179.1	1173.8	1172.7	1170.1	1172.7	1175.6
40°	1253.6	1255.6	1265.5	1269.3	1270.2	1267.0	1259.3	1254.9	1249.2	1252.3	1256.4
42.5°	1343.3	1347.5	1356.5	1363.3	1366.2	1364.2	1353.6	1346.9	1339.3	1341.0	1345.1
45°	1442.9	1447.9	1460.7	1467.1	1472.7	1469.4	1459.2	1449.0	1437.0	1437.8	1444.4
47.5°	1554.1	1559.1	1575.7	1586.5	1589.6	1588.9	1577.5	1563.4	1547.1	1546.4	1552.0
50°	1678.8	1683.8	1704.5	1721.2	1729.6	1728.8	1715.4	1695.5	1675.5	1675.8	1682.9
52.5°	1800.6	1806.6	1828.3	1856.9	1873.7	1885.6	1877.5	1858.8	1834.5	1835.1	1841.4
55°	1914.6	1924.9	1949.7	1988.7	2019.7	2053.3	2063.0	2062.5	2047.7	2051.9	2058.3
57.5°	1970.0	1985.2	2023.5	2085.0	2148.1	2216.7	2274.6	2317.9	2336.4	2364.2	2357.7
60°	1865.2	1889.4	1946.0	2036.4	2161.3	2304.2	2457.3	2606.8	2734.4	2830.6	2775.4
62.5°	1527.2	1558.7	1627.2	1743.2	1932.3	2160.8	2453.7	2807.3	3192.4	3424.8	3259.0
65°	955.5	988.3	1058.1	1182.1	1403.3	1687.6	2085.0	2670.9	3390.6	3740.9	3403.1
67.5°	372.5	390.5	428.2	507.5	673.6	926.6	1325.4	1990.5	2851.2	3158.3	2798.2
70°	186.7	188.5	195.6	210.2	245.9	319.3	485.9	922.7	1635.2	1975.0	1576.3
72.5°	134.9	135.3	138.7	145.2	156.6	173.0	204.5	282.4	531.7	812.7	498.4
75°	103.3	104.6	106.4	110.0	116.2	124.3	135.9	162.8	201.7	233.9	196.6
77.5°	79.6	81.9	83.5	86.6	90.4	95.9	99.3	109.5	127.3	134.0	132.1
80°	60.5	62.6	65.8	68.5	71.1	73.8	72.7	77.3	86.6	92.2	89.2
82.5°	38.6	41.0	50.3	52.7	53.9	55.7	53.5	53.9	57.9	61.4	57.9
85°	24.9	26.3	31.9	34.9	35.2	36.3	35.5	33.3	33.3	30.5	34.2
87.5°	11.4	11.7	14.4	17.0	17.5	15.8	15.5	14.9	11.9	11.4	12.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P270144

CATALOG NUMBER: GWC-AF-01-LED-E1-5NQ-7027-1200

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	707.1	707.1	707.1	707.1	707.1	707.1	707.1	707.1
2.5°	706.7	707.3	707.7	708.6	708.9	708.9	709.1	709.8
5°	712.4	713.3	713.6	714.7	715.1	714.7	715.3	715.6
7.5°	722.2	723.8	724.4	725.6	724.7	725.8	726.1	726.1
10°	736.9	738.3	738.6	739.8	739.2	739.8	739.8	739.2
12.5°	756.3	756.6	755.7	756.6	755.4	756.0	755.0	754.4
15°	777.7	776.8	774.7	774.7	772.9	773.3	772.9	772.6
17.5°	798.5	796.6	795.2	794.6	793.2	792.8	791.9	791.9
20°	821.2	820.3	819.4	818.3	816.9	815.4	815.1	815.8
22.5°	848.8	848.4	848.4	847.9	845.8	844.3	843.5	843.5
25°	885.5	882.9	882.9	882.7	881.7	881.0	879.3	880.1
27.5°	927.2	925.8	927.0	926.6	925.8	925.8	924.5	924.5
30°	978.4	977.8	979.5	978.2	975.2	974.9	973.8	972.2
32.5°	1037.5	1037.0	1039.6	1037.8	1033.1	1030.4	1028.1	1027.0
35°	1103.4	1103.7	1106.9	1105.8	1100.5	1098.6	1094.6	1094.0
37.5°	1175.3	1180.1	1185.7	1186.8	1182.3	1181.2	1176.8	1174.4
40°	1260.0	1266.2	1274.5	1276.6	1271.9	1271.0	1265.0	1261.7
42.5°	1350.2	1360.7	1371.2	1372.9	1368.2	1363.5	1357.7	1355.4
45°	1450.8	1463.3	1477.2	1480.5	1473.6	1468.0	1460.5	1460.5
47.5°	1563.7	1579.5	1595.0	1604.7	1598.3	1592.4	1583.4	1577.5
50°	1697.2	1718.8	1739.1	1749.0	1738.8	1727.6	1711.8	1706.6
52.5°	1864.6	1888.0	1905.6	1900.4	1884.6	1869.0	1851.8	1844.7
55°	2078.3	2086.1	2086.1	2066.2	2034.7	2008.6	1981.4	1972.3
57.5°	2345.5	2315.0	2268.2	2208.8	2134.2	2069.2	2025.3	2004.5
60°	2659.5	2513.2	2347.8	2185.3	2051.9	1941.9	1876.6	1846.7
62.5°	2868.7	2485.9	2154.7	1893.8	1701.8	1569.2	1479.1	1444.0
65°	2681.1	2073.3	1629.5	1317.6	1108.2	973.5	884.1	851.4
67.5°	1963.9	1299.2	867.8	621.9	455.7	363.5	327.0	311.7
70°	881.5	457.4	280.5	218.8	188.7	173.3	166.5	164.2
72.5°	265.8	192.2	162.1	146.3	134.3	126.8	121.2	120.6
75°	160.3	133.5	118.5	109.1	101.6	95.4	92.4	91.5
77.5°	112.1	98.1	91.0	84.4	78.4	73.8	71.1	69.1
80°	78.7	72.0	68.8	64.9	61.2	56.8	53.0	51.3
82.5°	52.7	51.3	51.3	48.9	45.6	41.5	34.0	32.2
85°	34.0	33.6	34.2	33.3	31.0	26.6	22.0	20.8
87.5°	15.8	16.1	17.8	17.5	17.0	14.1	11.0	10.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)