

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: P200233

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200233
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-7050-1200
Description: GALLEON WALL 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: 7193 lumens
Efficiency: N/A
Efficacy: 107.4 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

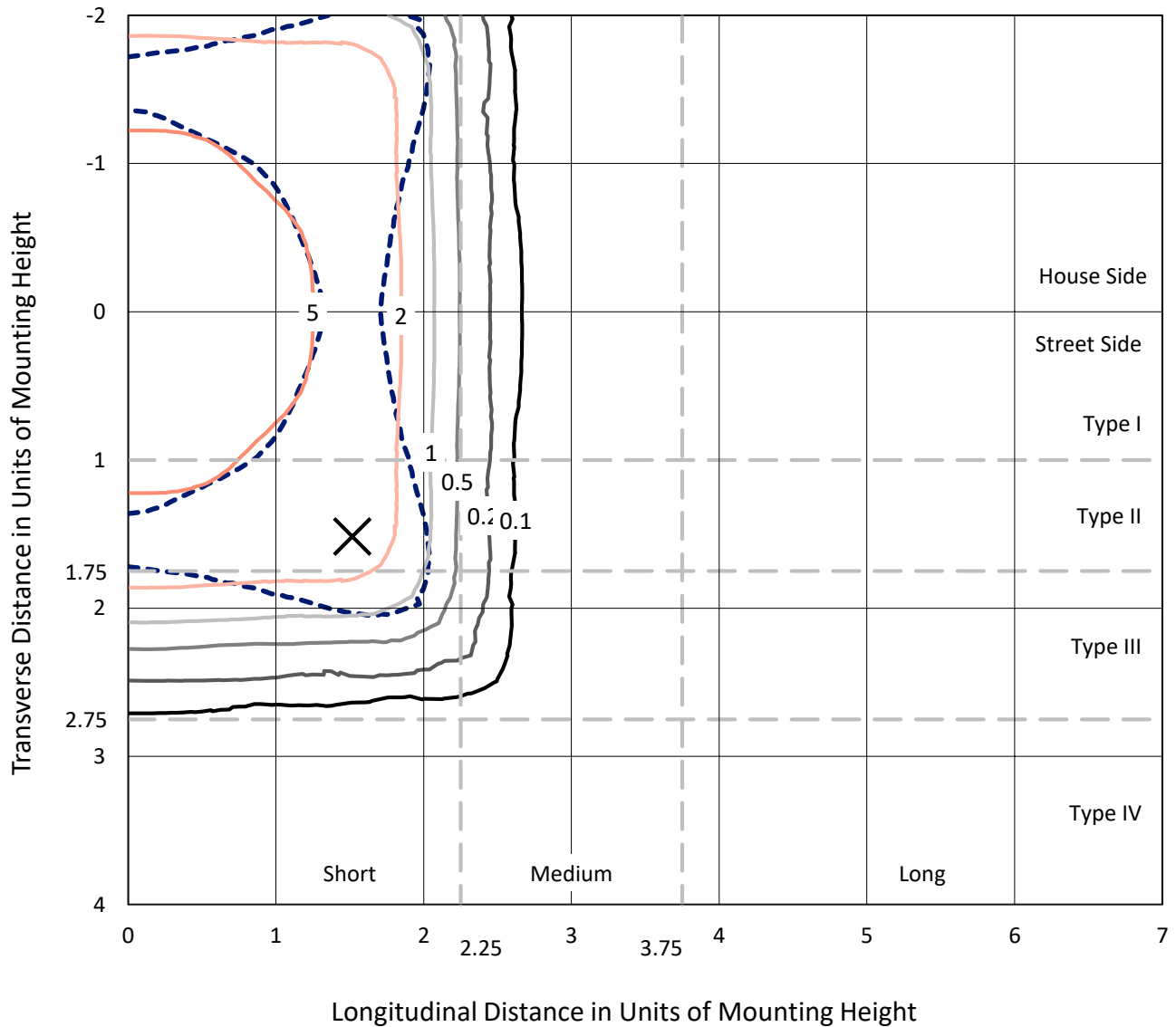


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Iso-Footcandle Lines of Horizontal Illumination

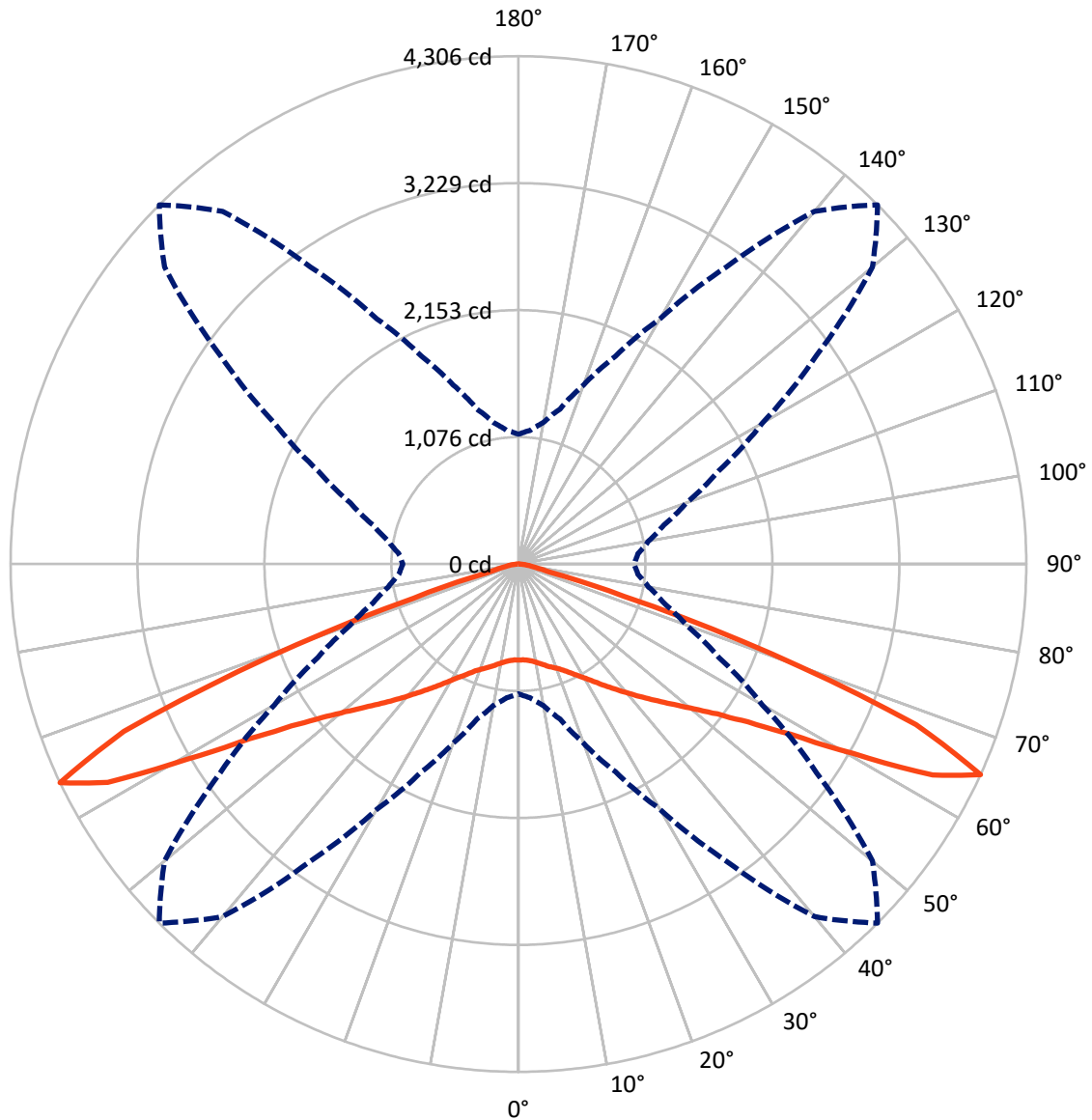
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.1 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	3596.5	0.0	3596.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3596.5	0.0	3596.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7193.0	0.0	7193.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.3	1.1
10°-20°	254.4	3.5
20°-30°	475.7	6.6
30°-40°	804.6	11.2
40°-50°	1315.6	18.3
50°-60°	2091.9	29.1
60°-70°	1891.0	26.3
70°-80°	239.3	3.3
80°-90°	41.2	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°	7193.0	100.0
0°-180°	7193.0	100.0



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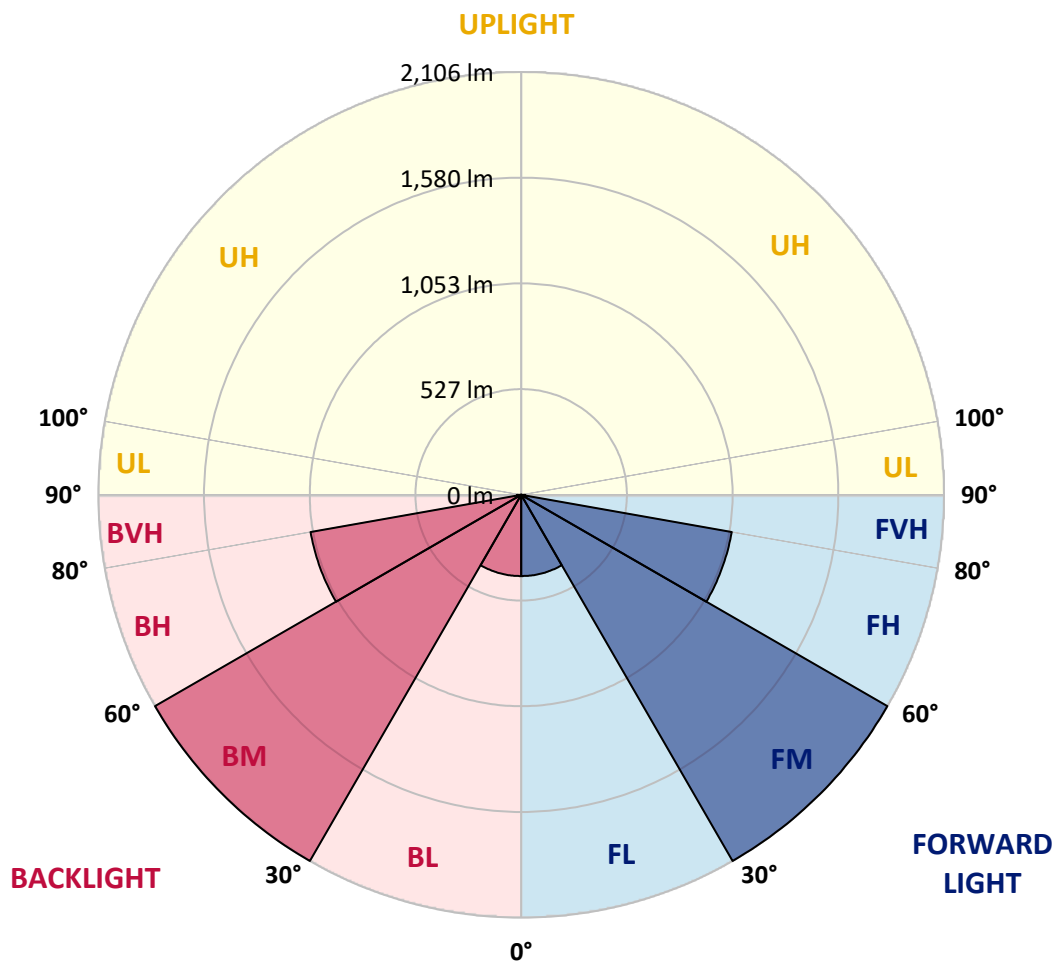
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	404.7	5.6			
FM	(30°-60°)	2106.0	29.3			
FH	(60°-80°)	1065.1	14.8			G1/1800
FVH	(80°-90°)	20.6	0.3			G1/100
BL	(0°-30°)	404.7	5.6	B1/500		
BM	(30°-60°)	2106.0	29.3	B2/2500		
BH	(60°-80°)	1065.1	14.8	B3/2500		G1/1800
BVH	(80°-90°)	20.6	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°	813.9	813.9	813.9	813.9	813.9	813.9	813.9	813.9	813.9	813.9	813.9
2.5°	814.6	815.2	815.9	815.2	815.9	814.9	814.2	815.2	814.2	813.2	813.9
5°	821.6	822.0	822.0	821.0	822.0	821.3	820.3	821.6	820.6	819.6	820.3
7.5°	833.4	834.8	833.8	832.8	833.4	832.8	832.1	832.4	832.1	831.1	831.4
10°	849.3	850.3	849.6	849.3	849.9	849.6	848.9	848.6	848.9	847.9	847.9
12.5°	868.5	868.1	867.8	868.1	869.1	869.1	868.8	869.1	869.8	870.2	869.5
15°	887.3	888.0	888.0	888.0	890.0	891.7	892.7	893.4	894.7	895.1	893.7
17.5°	910.9	910.9	910.6	910.9	912.9	915.6	916.6	918.0	919.3	920.3	918.7
20°	937.2	937.9	937.9	938.5	941.2	944.3	944.3	944.9	944.3	944.9	943.9
22.5°	969.2	971.2	971.2	971.5	974.2	978.0	976.9	978.0	976.3	977.6	976.3
25°	1011.0	1014.0	1013.3	1013.3	1015.3	1017.7	1018.0	1020.1	1019.7	1021.4	1020.4
27.5°	1058.1	1062.8	1064.2	1063.9	1065.2	1067.6	1068.2	1070.6	1069.2	1070.6	1069.9
30°	1114.7	1116.7	1119.4	1120.4	1122.1	1124.5	1124.5	1124.8	1123.1	1125.2	1126.2
32.5°	1173.3	1177.0	1179.7	1185.8	1188.8	1190.5	1190.2	1190.9	1189.2	1191.9	1193.9
35°	1250.8	1253.5	1257.9	1262.6	1266.7	1266.3	1265.3	1265.6	1265.6	1268.0	1270.0
37.5°	1344.1	1344.8	1350.5	1357.3	1359.3	1357.3	1351.2	1349.9	1346.8	1349.9	1353.2
40°	1442.8	1445.2	1456.7	1461.0	1462.0	1458.3	1449.6	1444.5	1437.8	1441.5	1446.2
42.5°	1546.3	1551.0	1561.4	1569.2	1572.5	1570.2	1558.1	1550.3	1541.5	1543.6	1548.3
45°	1660.8	1666.5	1681.3	1688.8	1695.2	1691.5	1679.7	1667.9	1654.1	1655.1	1662.5
47.5°	1788.8	1794.5	1813.7	1826.2	1829.6	1828.9	1815.8	1799.6	1780.7	1780.1	1786.5
50°	1932.3	1938.0	1962.0	1981.2	1990.9	1989.9	1974.4	1951.5	1928.6	1929.0	1937.0
52.5°	2072.5	2079.5	2104.5	2137.5	2156.7	2170.5	2161.1	2139.5	2111.5	2112.2	2119.6
55°	2203.8	2215.6	2244.3	2289.1	2324.8	2363.5	2374.6	2374.0	2357.1	2361.8	2369.2
57.5°	2267.5	2285.0	2329.2	2399.9	2472.7	2551.5	2618.2	2668.1	2689.3	2721.3	2713.9
60°	2146.9	2174.9	2239.9	2344.0	2487.8	2652.2	2828.4	3000.6	3147.4	3258.3	3194.6
62.5°	1757.8	1794.2	1873.0	2006.4	2224.1	2487.2	2824.4	3231.3	3674.6	3942.1	3751.1
65°	1099.9	1137.6	1217.8	1360.6	1615.3	1942.4	2399.9	3074.3	3902.7	4305.9	3917.2
67.5°	428.8	449.4	492.8	584.1	775.5	1066.5	1525.7	2291.1	3281.8	3635.2	3220.9
70°	214.9	216.9	225.0	241.9	283.0	367.5	559.2	1062.2	1882.1	2273.2	1814.4
72.5°	155.3	155.6	159.7	167.1	180.2	199.1	235.5	325.1	612.1	935.5	573.7
75°	118.9	120.3	122.6	126.7	133.7	143.2	156.3	187.3	232.1	269.2	226.4
77.5°	91.6	94.3	96.0	99.7	104.1	110.5	114.2	126.0	146.5	154.3	151.9
80°	69.7	72.1	75.8	78.8	81.9	84.9	83.5	88.9	99.7	106.1	102.7
82.5°	44.5	47.2	57.9	60.6	62.0	64.0	61.6	62.0	66.7	70.7	66.7
85°	28.6	30.3	36.7	40.1	40.4	41.8	40.8	38.4	38.4	35.0	39.4
87.5°	13.1	13.5	16.5	19.5	20.2	18.2	17.9	17.2	13.8	13.1	14.1
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°	813.9	813.9	813.9	813.9	813.9	813.9	813.9	813.9
2.5°	813.6	814.2	814.6	815.6	815.9	815.9	816.2	816.9
5°	820.0	821.0	821.3	822.7	823.0	822.7	823.3	823.7
7.5°	831.4	833.1	833.8	835.1	834.1	835.5	835.8	835.8
10°	848.3	849.9	850.3	851.6	850.9	851.6	851.6	850.9
12.5°	870.5	870.8	869.8	870.8	869.5	870.2	869.1	868.5
15°	895.1	894.1	891.7	891.7	889.7	890.0	889.7	889.4
17.5°	919.0	917.0	915.3	914.6	912.9	912.6	911.6	911.6
20°	945.3	944.3	943.3	941.9	940.2	938.5	938.2	938.9
22.5°	976.9	976.6	976.6	975.9	973.6	971.9	970.9	970.9
25°	1019.4	1016.4	1016.4	1016.0	1015.0	1014.0	1012.0	1013.0
27.5°	1067.2	1065.5	1066.9	1066.5	1065.5	1065.5	1064.2	1064.2
30°	1126.2	1125.5	1127.5	1125.8	1122.5	1122.1	1120.8	1119.1
32.5°	1194.2	1193.6	1196.6	1194.6	1189.2	1186.1	1183.4	1182.1
35°	1270.0	1270.4	1274.1	1272.7	1266.7	1264.6	1259.9	1259.2
37.5°	1352.9	1358.3	1364.7	1366.0	1361.0	1359.6	1354.6	1351.9
40°	1450.3	1457.3	1467.1	1469.5	1464.1	1463.1	1456.0	1452.3
42.5°	1554.0	1566.1	1578.3	1580.3	1574.9	1569.5	1562.8	1560.1
45°	1669.9	1684.4	1700.2	1704.3	1696.2	1689.8	1681.0	1681.0
47.5°	1799.9	1818.1	1836.0	1847.1	1839.7	1832.9	1822.5	1815.8
50°	1953.5	1978.5	2001.7	2013.2	2001.4	1988.6	1970.4	1964.3
52.5°	2146.2	2173.2	2193.4	2187.3	2169.1	2151.3	2131.4	2123.3
55°	2392.2	2401.3	2401.3	2378.3	2342.0	2312.0	2280.6	2270.2
57.5°	2699.7	2664.7	2610.8	2542.4	2456.5	2381.7	2331.2	2307.3
60°	3061.2	2892.8	2702.4	2515.5	2361.8	2235.2	2160.0	2125.7
62.5°	3302.1	2861.4	2480.1	2179.9	1958.9	1806.3	1702.6	1662.1
65°	3086.1	2386.4	1875.7	1516.6	1275.7	1120.4	1017.7	980.0
67.5°	2260.4	1495.4	998.8	715.9	524.5	418.4	376.3	358.8
70°	1014.7	526.5	322.7	252.0	217.3	199.4	191.7	189.0
72.5°	305.9	221.3	186.6	168.4	154.6	145.9	139.5	138.8
75°	184.6	153.6	136.4	125.7	116.9	109.8	106.5	105.4
77.5°	129.0	112.9	104.8	97.0	90.3	84.9	81.9	79.5
80°	90.6	82.9	79.2	74.8	70.4	65.4	61.0	59.0
82.5°	60.6	59.0	59.0	56.3	52.6	47.8	39.1	37.1
85°	39.1	38.7	39.4	38.4	35.7	30.7	25.3	23.9
87.5°	18.2	18.5	20.5	20.2	19.5	16.2	12.8	12.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)