

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: P199913

Luminaire Tested: **GWC-AF-01-LED-E1-5NQ-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199913
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-7030-1200
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 3000K, 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: 6956.6 lumens
Efficiency: N/A
Efficacy: 103.8 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

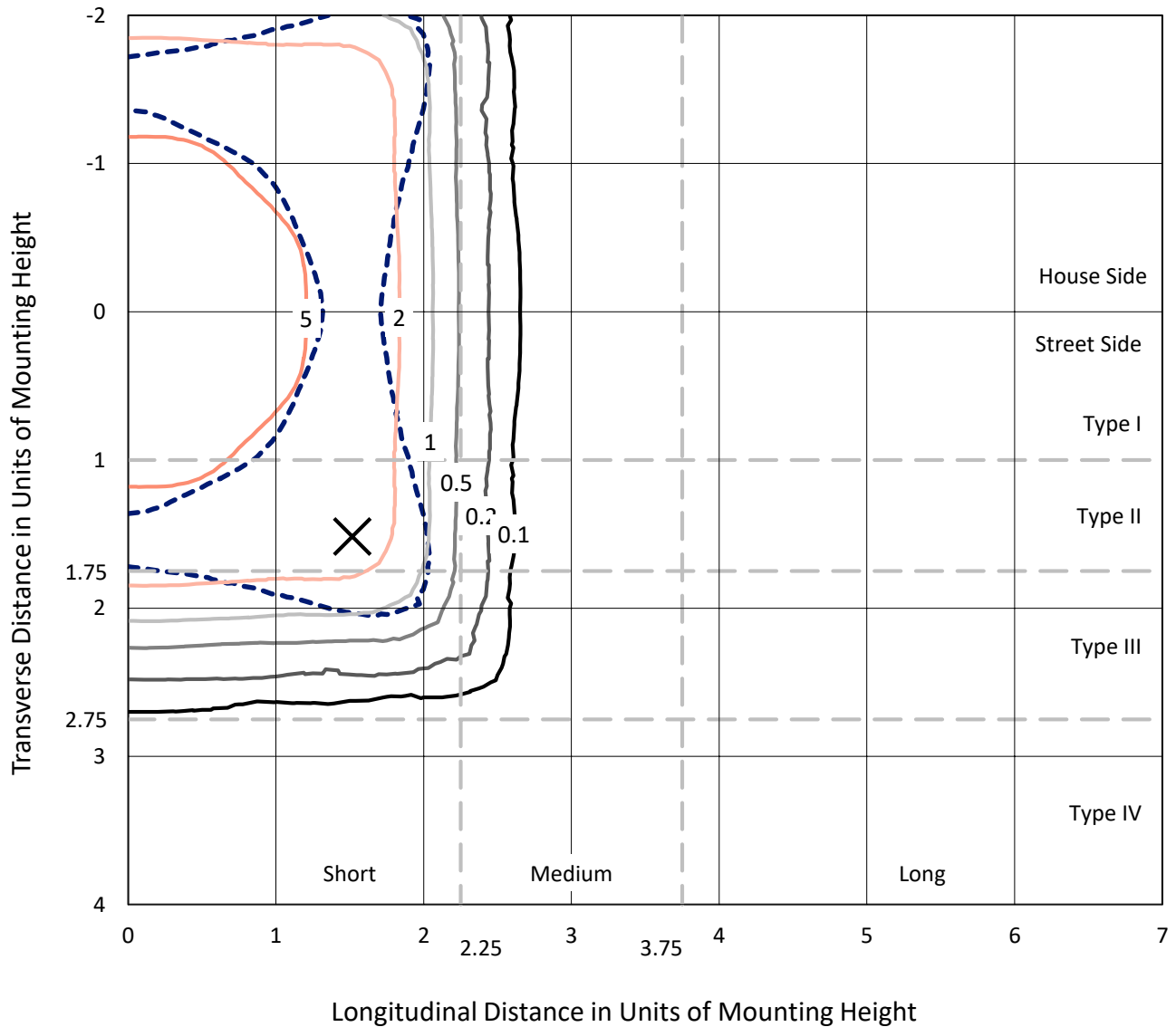


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Iso-Footcandle Lines of Horizontal Illumination

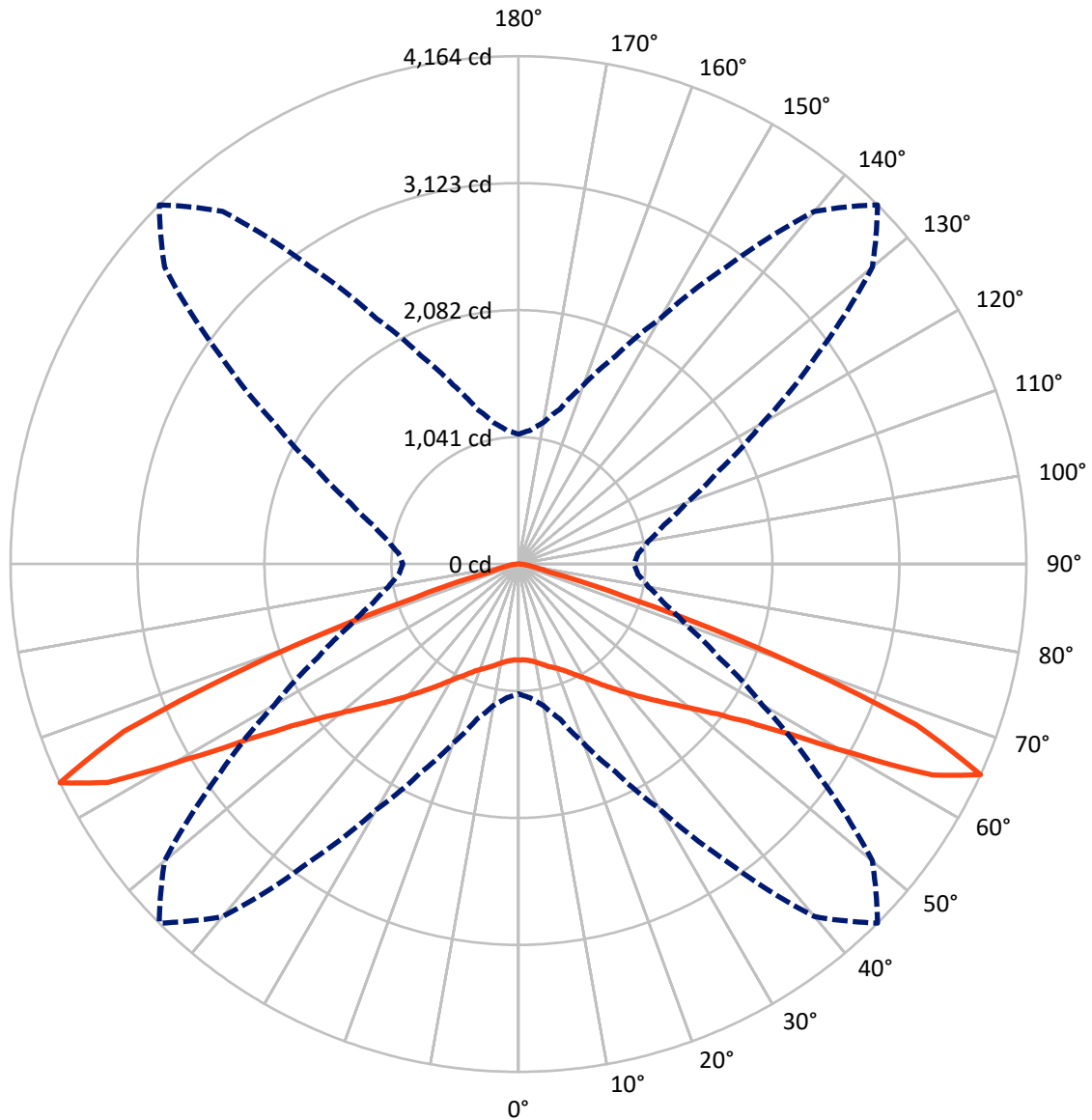
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.9 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	3478.3	0.0	3478.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3478.3	0.0	3478.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	6956.6	0.0	6956.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.7	1.1
10°-20°	246.1	3.5
20°-30°	460.1	6.6
30°-40°	778.1	11.2
40°-50°	1272.3	18.3
50°-60°	2023.2	29.1
60°-70°	1828.8	26.3
70°-80°	231.5	3.3
80°-90°	39.8	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°	6956.6	100.0
0°-180°	6956.6	100.0



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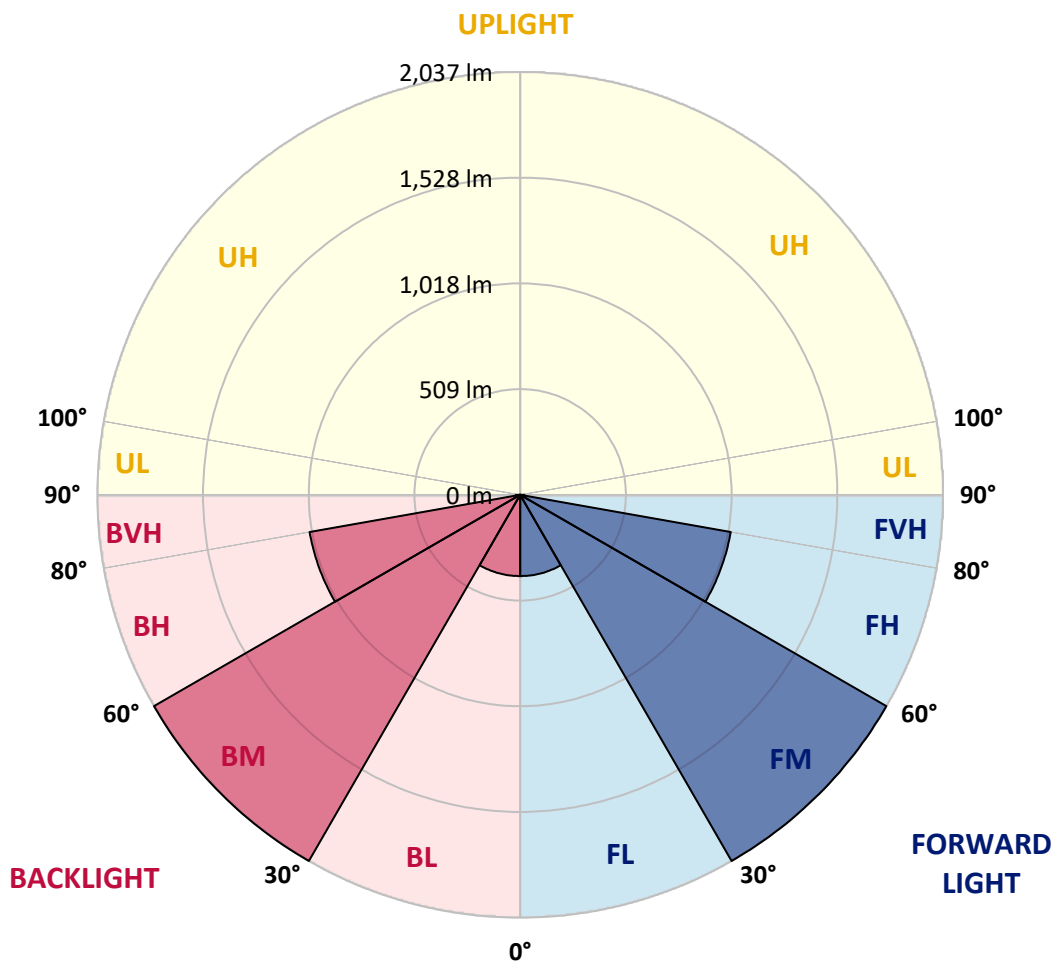
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	391.4	5.6			
FM	(30°-60°)	2036.8	29.3			
FH	(60°-80°)	1030.1	14.8			G1/1800
FVH	(80°-90°)	19.9	0.3			G1/100
BL	(0°-30°)	391.4	5.6	B1/500		
BM	(30°-60°)	2036.8	29.3	B2/2500		
BH	(60°-80°)	1030.1	14.8	B3/2500		G1/1800
BVH	(80°-90°)	19.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	787.1	787.1	787.1	787.1	787.1	787.1	787.1	787.1	787.1	787.1	787.1
2.5°	787.8	788.5	789.1	788.5	789.1	788.1	787.4	788.5	787.4	786.4	787.1
5°	794.7	795.0	795.0	794.0	795.0	794.4	793.3	794.7	793.7	792.6	793.3
7.5°	806.0	807.3	806.4	805.4	806.0	805.4	804.7	805.0	804.7	803.7	804.0
10°	821.3	822.2	821.6	821.3	821.9	821.6	821.0	820.6	821.0	820.0	820.0
12.5°	839.8	839.5	839.2	839.5	840.5	840.5	840.2	840.5	841.2	841.6	840.9
15°	858.1	858.8	858.8	858.8	860.8	862.4	863.3	864.0	865.4	865.7	864.4
17.5°	880.9	880.9	880.6	880.9	883.0	885.5	886.5	887.8	889.2	890.1	888.5
20°	906.5	907.1	907.1	907.7	910.2	913.2	913.2	913.9	913.2	913.9	912.9
22.5°	937.3	939.3	939.3	939.6	942.3	945.7	944.9	945.7	944.2	945.5	944.2
25°	977.8	980.7	980.0	980.0	981.9	984.2	984.5	986.5	986.2	987.8	986.8
27.5°	1023.3	1027.9	1029.2	1028.9	1030.2	1032.5	1033.1	1035.4	1034.1	1035.4	1034.8
30°	1078.1	1080.0	1082.6	1083.7	1085.3	1087.5	1087.5	1087.9	1086.2	1088.2	1089.2
32.5°	1134.7	1138.4	1141.0	1146.7	1149.7	1151.4	1151.0	1151.7	1150.1	1152.6	1154.7
35°	1209.7	1212.3	1216.5	1221.1	1225.1	1224.7	1223.7	1224.0	1224.0	1226.3	1228.3
37.5°	1299.9	1300.6	1306.0	1312.6	1314.6	1312.6	1306.7	1305.5	1302.6	1305.5	1308.7
40°	1395.5	1397.7	1408.8	1413.0	1414.0	1410.4	1401.9	1397.0	1390.6	1394.1	1398.6
42.5°	1495.4	1500.0	1510.1	1517.6	1520.9	1518.6	1506.8	1499.4	1490.9	1492.8	1497.4
45°	1606.2	1611.8	1626.1	1633.2	1639.4	1635.8	1624.4	1613.0	1599.7	1600.6	1607.9
47.5°	1730.0	1735.6	1754.1	1766.1	1769.5	1768.8	1756.1	1740.4	1722.2	1721.5	1727.7
50°	1868.8	1874.4	1897.5	1916.1	1925.4	1924.5	1909.6	1887.4	1865.2	1865.5	1873.4
52.5°	2004.4	2011.1	2035.3	2067.1	2085.8	2099.1	2090.0	2069.2	2042.2	2042.8	2049.9
55°	2131.4	2142.8	2170.4	2213.8	2248.3	2285.8	2296.5	2296.0	2279.5	2284.2	2291.3
57.5°	2193.0	2209.9	2252.6	2321.0	2391.3	2467.6	2532.1	2580.3	2600.9	2631.8	2624.6
60°	2076.4	2103.3	2166.3	2266.9	2406.0	2565.1	2735.5	2901.9	3044.0	3151.1	3089.6
62.5°	1700.1	1735.2	1811.4	1940.5	2151.0	2405.4	2731.5	3125.1	3553.8	3812.5	3627.9
65°	1063.7	1100.2	1177.9	1315.9	1562.2	1878.6	2321.0	2973.3	3774.4	4164.4	3788.4
67.5°	414.7	434.7	476.7	565.0	749.9	1031.5	1475.5	2215.8	3174.0	3515.8	3115.0
70°	207.8	209.8	217.7	234.0	273.7	355.4	540.9	1027.2	1820.3	2198.6	1754.8
72.5°	150.2	150.6	154.4	161.6	174.3	192.6	227.7	314.4	591.9	904.7	554.8
75°	115.0	116.4	118.5	122.5	129.4	138.4	151.3	181.2	224.5	260.4	218.9
77.5°	88.6	91.2	92.9	96.4	100.6	106.8	110.5	121.9	141.7	149.2	147.0
80°	67.4	69.7	73.3	76.3	79.2	82.1	80.9	86.0	96.4	102.6	99.3
82.5°	43.0	45.6	56.0	58.7	60.0	62.0	59.6	60.0	64.5	68.4	64.5
85°	27.7	29.3	35.5	38.8	39.2	40.4	39.5	37.1	37.1	33.9	38.1
87.5°	12.7	13.0	16.0	18.9	19.5	17.6	17.3	16.6	13.3	12.7	13.6
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°	787.1	787.1	787.1	787.1	787.1	787.1	787.1	787.1
2.5°	786.7	787.4	787.8	788.8	789.1	789.1	789.4	790.1
5°	793.0	794.0	794.4	795.6	796.0	795.6	796.3	796.6
7.5°	804.0	805.7	806.4	807.7	806.7	808.0	808.3	808.3
10°	820.3	821.9	822.2	823.6	822.9	823.6	823.6	822.9
12.5°	841.9	842.2	841.2	842.2	840.9	841.6	840.5	839.8
15°	865.7	864.7	862.4	862.4	860.4	860.8	860.4	860.1
17.5°	888.9	886.8	885.2	884.6	883.0	882.6	881.6	881.6
20°	914.2	913.2	912.2	910.9	909.4	907.7	907.4	908.1
22.5°	944.9	944.5	944.5	943.9	941.6	939.9	939.0	939.0
25°	985.8	982.9	982.9	982.6	981.5	980.7	978.8	979.7
27.5°	1032.2	1030.6	1031.9	1031.5	1030.6	1030.6	1029.2	1029.2
30°	1089.2	1088.5	1090.4	1088.9	1085.6	1085.3	1084.0	1082.3
32.5°	1155.0	1154.4	1157.3	1155.3	1150.1	1147.1	1144.5	1143.3
35°	1228.3	1228.6	1232.2	1231.0	1225.1	1223.0	1218.5	1217.8
37.5°	1308.4	1313.7	1319.9	1321.2	1316.2	1314.9	1310.0	1307.4
40°	1402.6	1409.5	1418.8	1421.1	1415.9	1414.9	1408.2	1404.5
42.5°	1503.0	1514.7	1526.4	1528.3	1523.1	1517.9	1511.4	1508.8
45°	1615.0	1629.0	1644.4	1648.1	1640.4	1634.2	1625.8	1625.8
47.5°	1740.7	1758.3	1775.6	1786.4	1779.2	1772.7	1762.6	1756.1
50°	1889.3	1913.4	1936.0	1947.0	1935.6	1923.2	1905.6	1899.8
52.5°	2075.7	2101.7	2121.3	2115.5	2097.9	2080.6	2061.4	2053.5
55°	2313.6	2322.3	2322.3	2300.1	2265.0	2236.0	2205.7	2195.6
57.5°	2611.0	2577.1	2525.0	2458.8	2375.8	2303.4	2254.6	2231.4
60°	2960.6	2797.7	2613.6	2432.7	2284.2	2161.7	2089.0	2055.8
62.5°	3193.5	2767.3	2398.6	2108.2	1894.5	1746.9	1646.6	1607.5
65°	2984.6	2308.0	1814.0	1466.8	1233.7	1083.7	984.2	947.8
67.5°	2186.2	1446.3	966.0	692.3	507.3	404.7	364.0	347.0
70°	981.3	509.2	312.2	243.6	210.1	192.9	185.4	182.8
72.5°	295.9	214.0	180.5	162.9	149.5	141.1	134.9	134.3
75°	178.5	148.6	131.9	121.5	113.1	106.2	102.9	101.9
77.5°	124.8	109.2	101.3	93.9	87.3	82.1	79.2	76.9
80°	87.6	80.2	76.6	72.3	68.1	63.2	59.0	57.1
82.5°	58.7	57.1	57.1	54.4	50.8	46.2	37.8	35.8
85°	37.8	37.4	38.1	37.1	34.5	29.6	24.5	23.2
87.5°	17.6	17.9	19.8	19.5	18.9	15.7	12.3	11.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)