

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: P200241

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200241
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
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-E1-5WQ-7050-1200
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7345 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

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

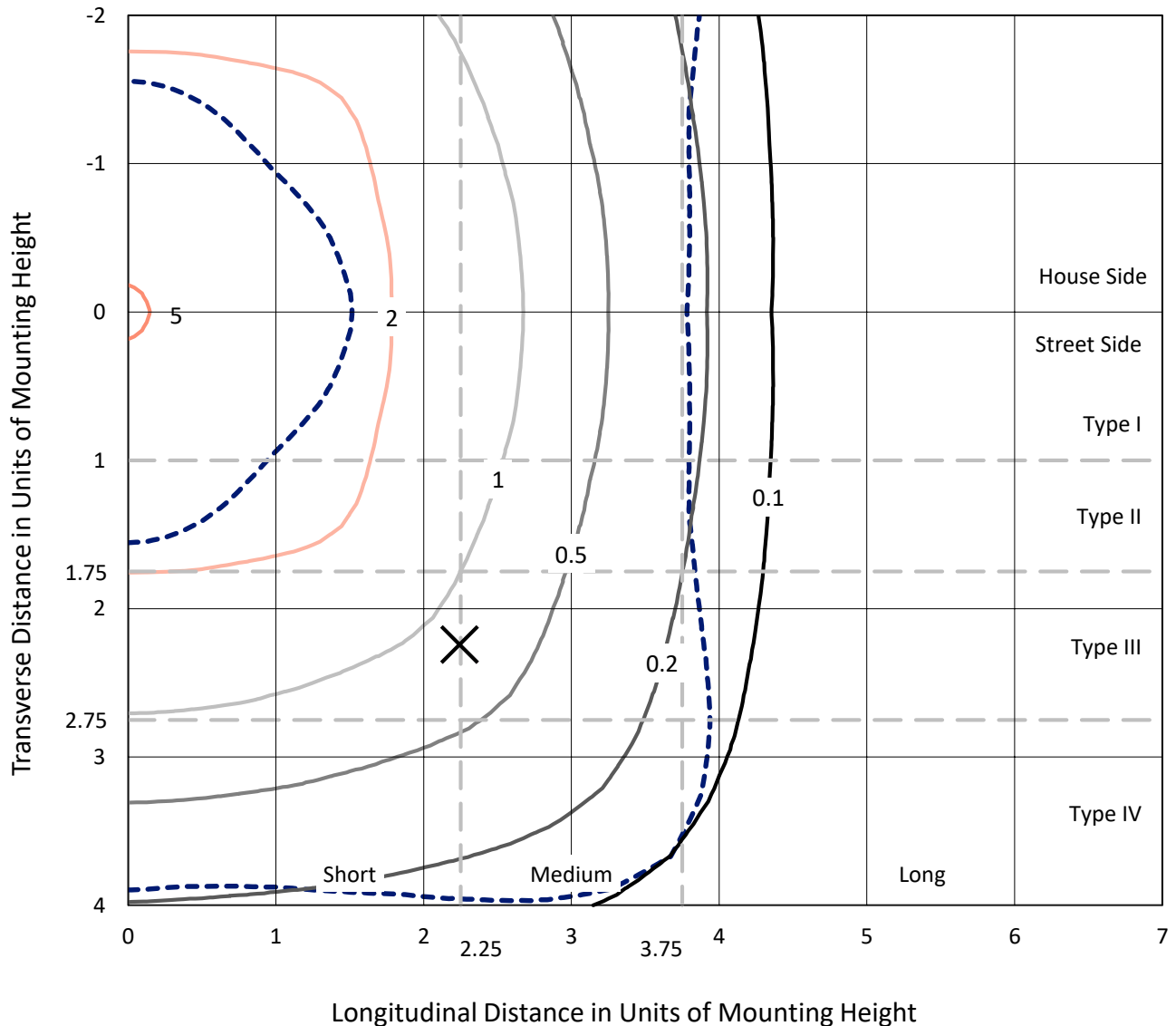


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

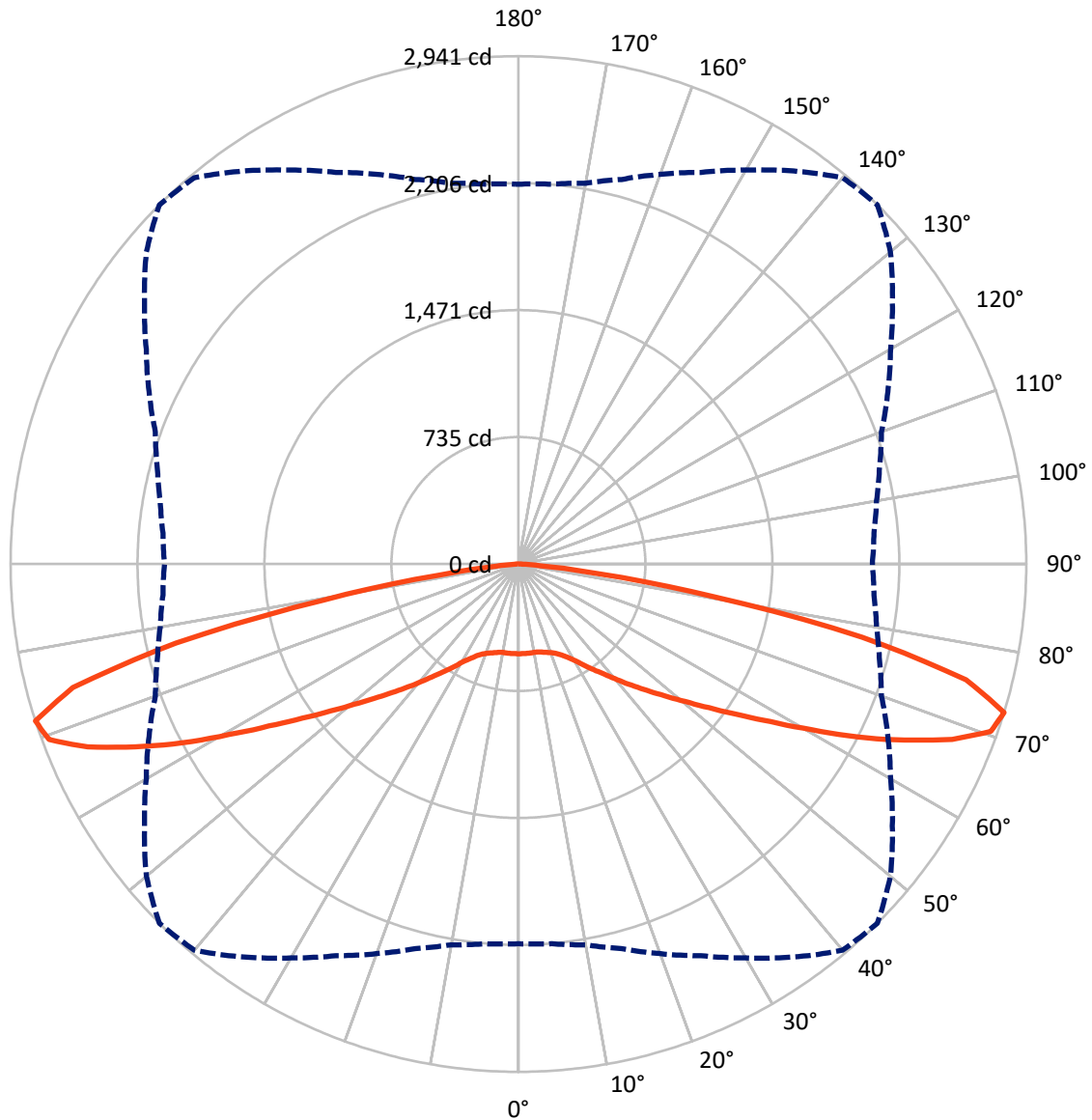


Based on 10 foot mounting height. Maximum calculated value = 5.2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3672.5	0.0	3672.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3672.5	0.0	3672.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7345.0	0.0	7345.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.7	0.7
10°-20°	150.8	2.1
20°-30°	275.7	3.8
30°-40°	475.3	6.5
40°-50°	812.5	11.1
50°-60°	1316.9	17.9
60°-70°	2184.7	29.7
70°-80°	1924.3	26.2
80°-90°	155.2	2.1
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°	7345.0	100.0
0°-180°	7345.0	100.0



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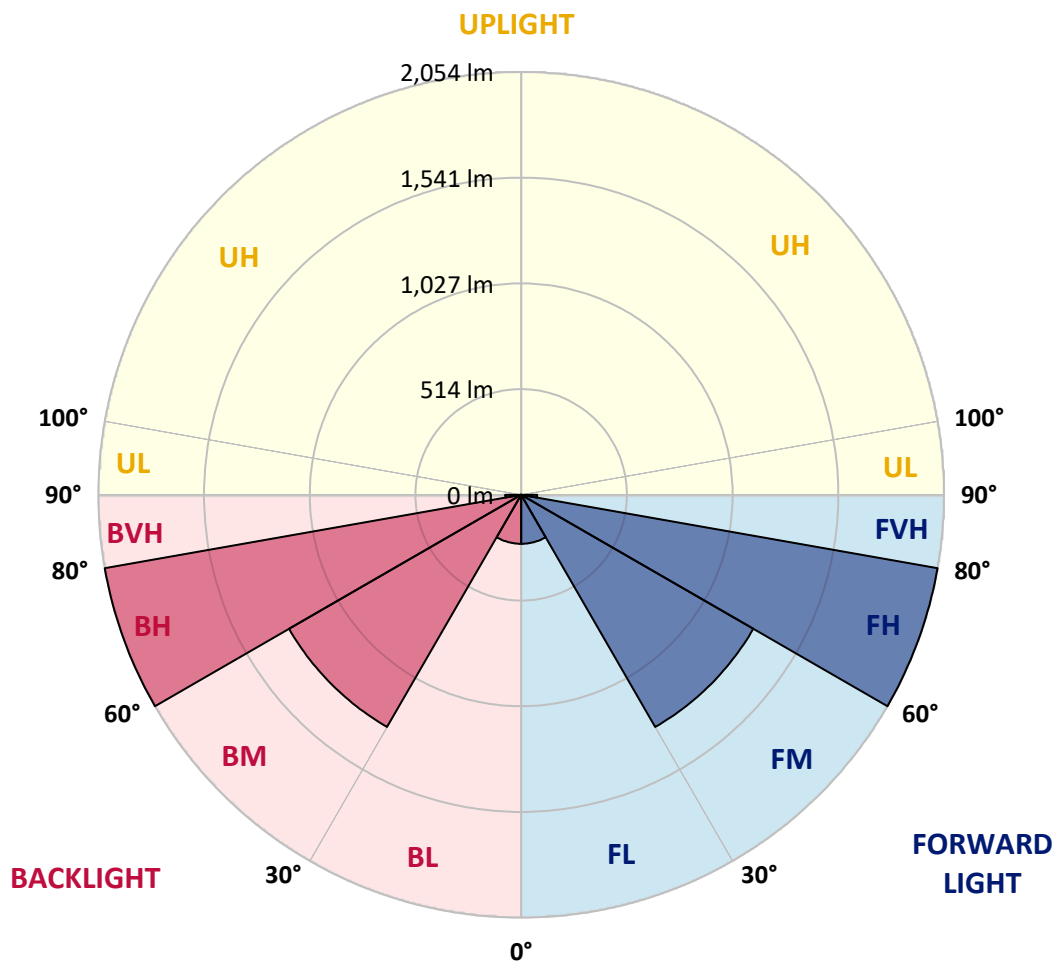
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	238.1	3.2			
FM	(30°-60°)	1302.3	17.7			
FH	(60°-80°)	2054.5	28.0			G2/5000
FVH	(80°-90°)	77.6	1.1			G1/100
BL	(0°-30°)	238.1	3.2	B1/500		
BM	(30°-60°)	1302.3	17.7	B2/2500		
BH	(60°-80°)	2054.5	28.0	B3/2500		G2/5000
BVH	(80°-90°)	77.6	1.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1
2.5°	520.1	520.5	520.8	520.5	520.5	520.1	519.8	520.1	519.8	519.1	519.5
5°	521.8	522.5	522.5	521.8	522.2	521.8	521.2	521.5	520.8	519.8	519.8
7.5°	523.8	524.2	524.2	523.5	523.8	523.2	522.5	522.2	521.5	520.1	519.1
10°	526.9	527.2	526.9	526.2	526.2	525.2	523.5	522.8	521.5	519.5	518.5
12.5°	530.2	530.6	530.2	529.6	529.2	527.6	526.2	525.2	524.2	522.5	520.8
15°	535.0	535.6	535.0	533.6	532.6	531.3	530.6	530.9	531.3	529.9	528.2
17.5°	543.7	544.1	543.0	540.0	538.7	537.3	537.3	538.0	539.0	538.3	536.6
20°	559.9	558.9	556.5	552.8	551.1	548.8	548.4	548.8	548.8	548.4	547.1
22.5°	580.1	579.4	576.4	571.7	569.3	568.0	566.0	564.3	563.9	562.9	561.6
25°	604.4	604.0	600.3	596.3	594.6	592.9	591.2	588.9	586.8	584.5	583.1
27.5°	635.4	634.0	628.6	626.6	624.2	623.2	620.9	618.2	616.5	613.5	611.8
30°	669.4	669.4	665.0	664.3	664.3	662.0	659.3	654.6	651.5	648.5	647.5
32.5°	703.4	703.7	699.4	700.7	701.7	703.4	704.1	702.4	700.4	700.0	698.0
35°	752.6	751.2	746.9	747.9	747.5	747.2	747.2	750.9	751.6	752.2	748.2
37.5°	813.6	813.6	809.2	809.2	807.2	805.1	802.4	804.8	808.5	809.5	806.8
40°	883.3	885.7	880.3	879.9	880.6	874.2	871.2	874.9	877.2	881.3	878.2
42.5°	965.5	963.8	958.4	957.7	954.0	952.0	949.3	952.4	956.1	958.8	959.8
45°	1044.3	1043.0	1036.9	1036.9	1033.2	1031.5	1032.9	1037.9	1039.6	1043.3	1047.0
47.5°	1122.1	1120.5	1116.4	1118.1	1118.4	1121.5	1125.8	1130.6	1135.3	1140.3	1142.0
50°	1201.6	1202.0	1197.6	1201.6	1206.7	1215.1	1226.9	1234.7	1244.4	1250.8	1252.9
52.5°	1274.1	1275.4	1280.1	1289.6	1299.7	1316.2	1336.4	1355.3	1371.4	1382.2	1381.5
55°	1361.0	1363.0	1374.5	1390.6	1407.1	1432.1	1462.1	1495.4	1522.4	1537.8	1528.1
57.5°	1472.2	1476.5	1489.3	1511.2	1535.8	1568.2	1609.3	1659.5	1701.2	1722.1	1706.3
60°	1624.8	1627.5	1643.0	1667.2	1696.9	1736.9	1791.9	1859.2	1918.2	1945.8	1927.6
62.5°	1825.9	1830.9	1843.4	1868.0	1898.3	1943.8	2010.8	2095.0	2168.5	2206.9	2165.8
65°	2066.1	2082.2	2092.7	2117.6	2145.9	2194.1	2264.2	2354.4	2433.3	2458.5	2411.0
67.5°	2303.9	2318.1	2336.3	2364.9	2393.5	2447.8	2512.8	2600.4	2686.9	2709.8	2636.1
70°	2408.0	2416.1	2444.4	2483.5	2538.4	2602.4	2677.5	2775.9	2883.0	2901.9	2808.2
72.5°	2199.5	2207.6	2239.2	2305.6	2401.3	2503.0	2634.1	2778.6	2920.1	2941.3	2812.3
75°	1663.5	1650.4	1697.2	1785.1	1914.1	2056.0	2239.2	2446.4	2650.9	2677.5	2523.6
77.5°	859.7	858.0	893.4	1002.5	1156.5	1317.9	1519.7	1753.8	1953.9	2034.7	1909.4
80°	242.2	244.9	261.8	316.0	405.9	522.5	680.2	899.5	1063.2	1146.7	1076.7
82.5°	95.0	102.4	108.8	118.9	130.7	147.9	197.4	293.8	394.1	471.0	385.7
85°	34.0	36.4	51.5	61.0	62.0	65.4	74.5	86.9	104.8	125.0	102.7
87.5°	12.8	14.1	16.5	27.3	27.0	24.6	30.0	31.3	23.6	21.6	26.6
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°	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1
2.5°	518.8	519.1	519.1	519.5	519.8	519.8	520.5	520.5
5°	519.1	519.1	518.5	518.8	518.5	518.5	518.8	518.8
7.5°	518.5	518.1	517.4	517.1	516.4	516.4	516.4	516.4
10°	517.4	517.1	516.4	516.1	515.8	515.8	515.8	515.8
12.5°	520.1	519.1	518.5	518.1	518.1	518.1	518.1	518.1
15°	527.2	524.9	523.2	523.2	523.5	524.2	524.2	524.9
17.5°	536.0	533.3	531.6	530.2	530.9	531.9	532.6	533.3
20°	546.4	545.1	542.7	541.4	541.4	542.7	543.4	543.7
22.5°	560.9	559.9	558.9	557.2	557.2	557.9	559.2	559.2
25°	582.5	581.8	581.1	579.8	579.4	579.4	580.1	580.8
27.5°	609.4	609.7	609.1	608.7	607.7	607.4	608.4	608.1
30°	645.5	647.1	648.8	647.5	645.8	644.8	643.8	642.4
32.5°	694.3	692.3	690.9	688.6	685.5	682.9	680.8	678.5
35°	740.5	737.1	735.7	737.8	737.4	735.7	733.4	731.4
37.5°	797.1	796.4	797.1	800.8	800.1	801.8	797.1	796.7
40°	868.5	869.1	873.9	878.2	880.6	883.0	880.3	877.6
42.5°	951.3	951.0	952.7	958.8	962.8	965.5	959.8	959.1
45°	1038.9	1036.6	1037.9	1043.0	1047.0	1050.0	1043.6	1043.6
47.5°	1135.3	1131.2	1126.9	1132.6	1134.9	1137.0	1131.9	1130.2
50°	1242.7	1234.3	1224.9	1227.2	1227.2	1226.6	1220.2	1219.8
52.5°	1366.0	1350.5	1333.4	1327.0	1323.3	1319.2	1308.1	1302.7
55°	1507.9	1484.6	1457.7	1441.2	1432.4	1421.3	1402.8	1397.7
57.5°	1673.6	1637.2	1590.7	1570.5	1551.0	1532.8	1512.2	1506.5
60°	1870.0	1816.4	1754.8	1717.4	1696.2	1678.7	1657.4	1656.4
62.5°	2089.0	2004.4	1934.7	1901.0	1885.5	1870.0	1849.8	1852.5
65°	2311.7	2223.4	2158.0	2130.8	2116.3	2103.5	2083.3	2086.3
67.5°	2531.3	2450.1	2378.4	2350.4	2334.2	2318.1	2299.9	2302.9
70°	2689.0	2588.2	2507.4	2445.4	2406.7	2362.9	2334.6	2327.5
72.5°	2643.8	2488.5	2360.2	2237.2	2165.1	2106.5	2066.7	2049.6
75°	2288.1	2075.8	1910.8	1759.9	1675.0	1605.9	1555.7	1524.4
77.5°	1699.2	1460.7	1265.7	1091.8	954.4	862.1	797.1	754.9
80°	930.1	707.4	517.1	363.5	267.1	222.0	196.1	183.6
82.5°	289.7	187.0	137.8	118.9	110.5	105.8	98.0	85.6
85°	92.3	80.9	75.1	71.8	68.4	59.6	41.1	37.4
87.5°	35.7	36.7	36.4	34.4	35.0	25.3	20.2	17.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)